

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV091318\
 Data File : VV007523.D
 Acq On : 13 Sep 2018 21:31
 Operator : SY/MD
 Sample : J4864-02
 Misc : 25.0 mL/MSVOA_V/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 C0D08

Manual Integrations
 APPROVED

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 9/17/2018 12:29:30 PM

Quant Time: Sep 14 06:44:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR091318WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Sep 14 05:10:24 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	159832	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	143199	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	80059	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	108856	13.04	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	260.80%#
7) Chloroethane-d5	1.58	69	29970	4.28	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	85.60%
11) 1,1-Dichloroethene-d2	2.15	63	580004	33.38	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	667.60%#
20) 2-Butanone-d5	3.96	46	1853	1.59	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	3.18%#
24) Chloroform-d	4.41	84	74979	4.38	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.60%
26) 1,2-Dichloroethane-d4	5.09	65	36347	4.33	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.60%
32) Benzene-d6	5.10	84	144072	4.43	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.60%
36) 1,2-Dichloropropane-d6	6.13	67	42508	4.39	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	87.80%
41) Toluene-d8	7.36	98	146941	4.35	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.00%
43) trans-1,3-Dichloropropene-	7.67	79	18916	4.22	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	84.40%
46) 2-Hexanone-d5	8.14	63	52904	73.96	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	147.92%#
57) 1,1,2,2-Tetrachloroethane-	10.27	84	32969	4.87	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.40%
64) 1,2-Dichlorobenzene-d4	11.68	152	60981	4.16	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	83.20%

Target Compounds					Qvalue
3) Chloromethane	1.25	50	1917	0.255 ug/L	98
5) Vinyl chloride	1.32	62	8581940	1022.126 ug/L	92
8) Chloroethane	1.60	64	224059	43.786 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	3187	0.353 ug/L #	30
12) 1,1-Dichloroethene	2.15	96	1109374	136.754 ug/L #	66
13) Acetone	2.23	43	26151	34.384 ug/L #	35
14) Carbon disulfide	2.33	76	6691	0.282 ug/L	97
15) Methyl Acetate	2.48	43	9153	4.391 ug/L	95
16) Methylene chloride	2.54	84	4817799	549.443 ug/L	93
18) trans-1,2-Dichloroethene	2.79	96	44929	5.091 ug/L	98
19) 1,1-Dichloroethane	3.23	63	5211351	405.011 ug/L	98
21) 2-Butanone	4.06	43	56108	43.976 ug/L	99
22) cis-1,2-Dichloroethene	3.96	96	34457168m	3961.177 ug/L	
25) Chloroform	4.44	83	14639	0.996 ug/L	91
27) 1,2-Dichloroethane	5.19	62	53265	6.292 ug/L #	92
29) 1,1,1-Trichloroethane	4.67	97	7743147	555.993 ug/L	98
30) Cyclohexane	4.73	56	8798	0.725 ug/L	87

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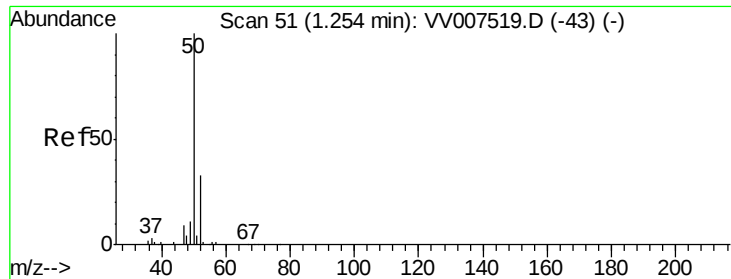
Manual Integrations
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Quant Time: Sep 14 06:44:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR091318WMA.M
 Quant Title : TRACE VOA SOM01.0
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) Benzene	5.15	78	25663	0.868	ug/L	100
34) Trichloroethene	5.97	95	9898605	1091.462	ug/L	97
35) Methylcyclohexane	6.18	83	23352	1.667	ug/L	96
40) 4-Methyl-2-pentanone	7.29	43	14674	3.647	ug/L #	87
42) Toluene	7.43	91	735004	21.516	ug/L	99
45) 1,1,2-Trichloroethane	7.89	97	51853	9.529	ug/L	97
47) Tetrachloroethene	8.02	164	4418	0.543	ug/L	93
52) Ethylbenzene	9.06	91	2466981	64.110	ug/L	98
53) m,p-xylene	9.19	106	3057910	205.114	ug/L	98
54) o-xylene	9.59	106	1274169	87.274	ug/L	98
56) Isopropylbenzene	9.98	105	228996	5.777	ug/L	99
62) 1,3-Dichlorobenzene	11.23	146	2259	0.112	ug/L	95
63) 1,4-Dichlorobenzene	11.32	146	1939	0.096	ug/L	97

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



#3

Chloromethane

Concen: 0.255 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV007523.D

Acq: 13 Sep 2018 21:31

Instrument :

MSVOA_V

ClientSampleId :

C0D08

Tgt Ion: 50 Resp: 1917

Ion Ratio Lower Upper

50 100

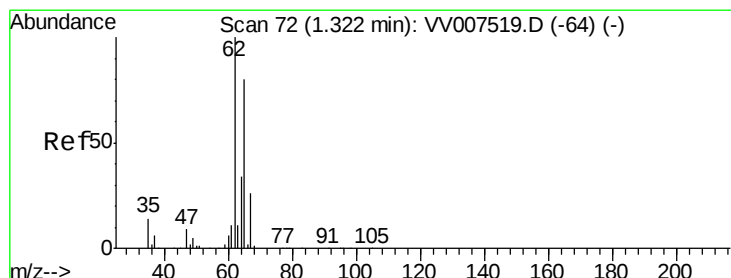
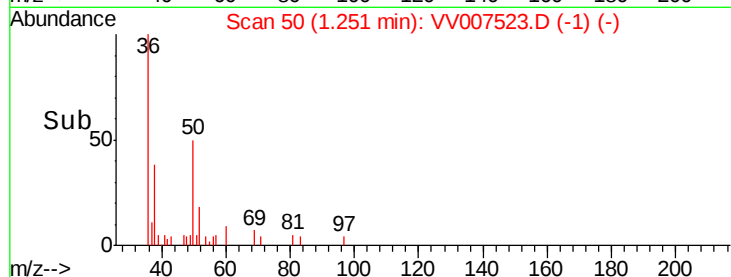
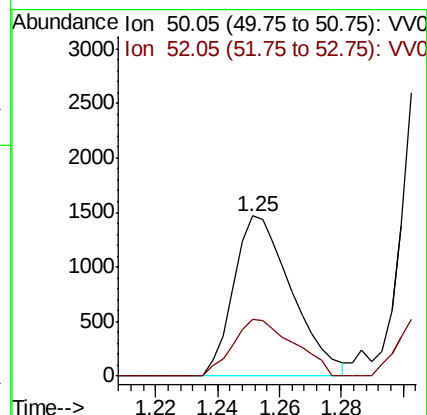
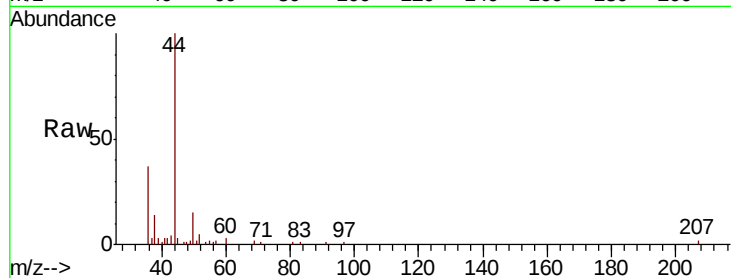
52 35.6 24.3 45.1

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#5

Vinyl chloride

Concen: 1022.126 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV007523.D

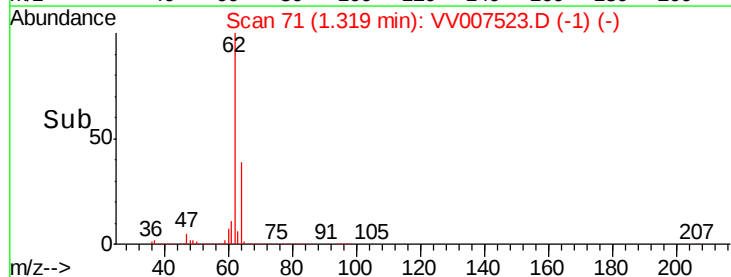
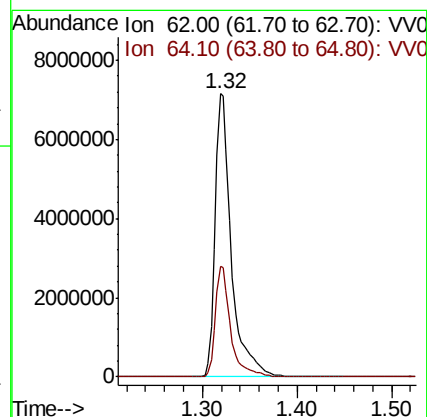
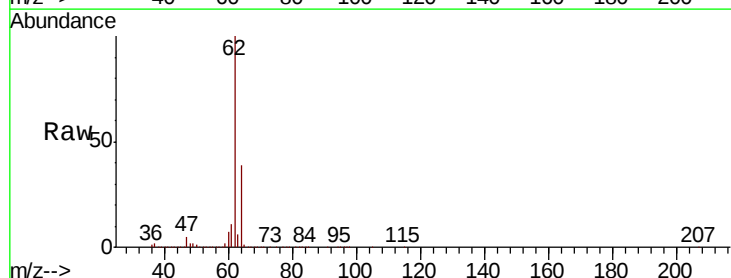
Acq: 13 Sep 2018 21:31

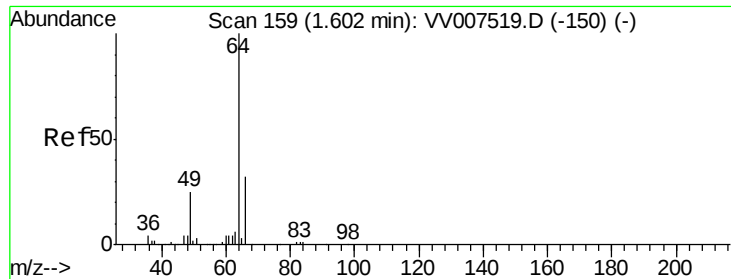
Tgt Ion: 62 Resp: 8581940

Ion Ratio Lower Upper

62 100

64 39.3 24.4 45.2





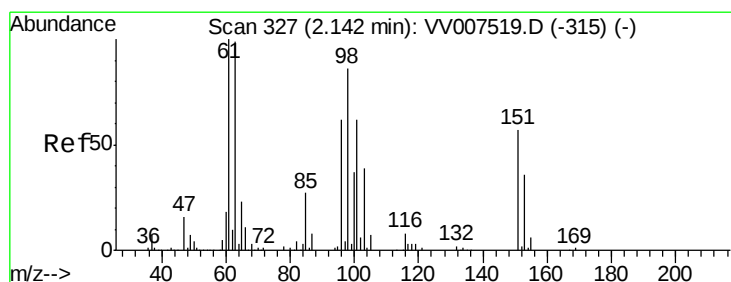
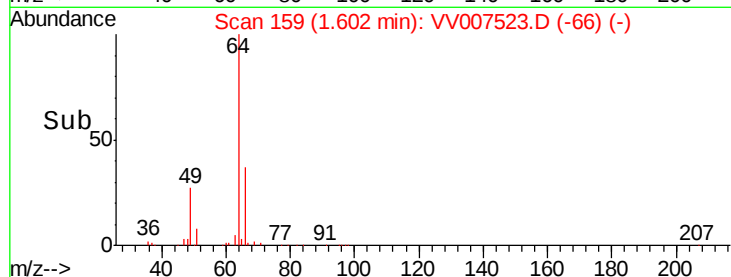
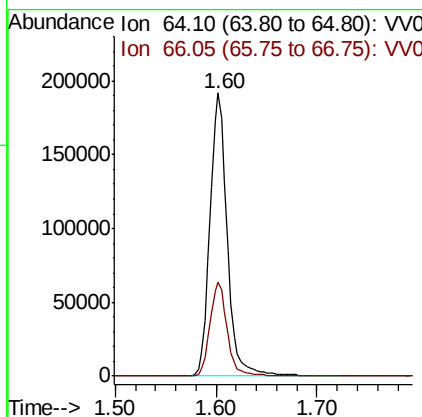
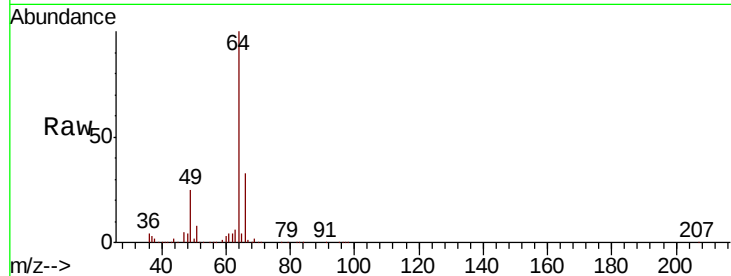
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 Chloroethane
 Concen: 43.786 ug/L
 RT: 1.60 min Scan# 159
 Delta R.T. 0.00 min
 Lab File: VV007523.D
 Acq: 13 Sep 2018 21:31

Instrument :
 MSVOA_V
 ClientSampleId :
 C0D08

Tgt Ion	Ratio	Lower	Upper
64	100		
66	33.1	24.3	45.1

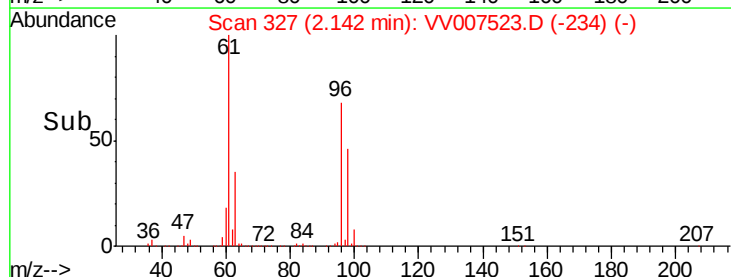
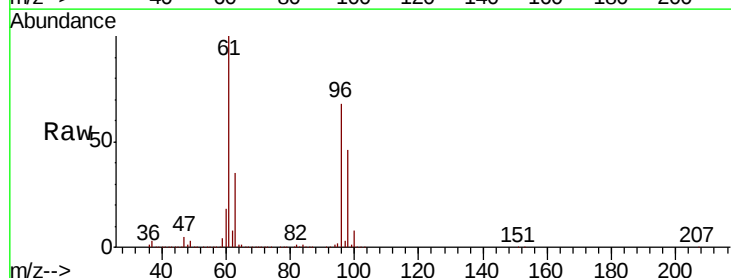
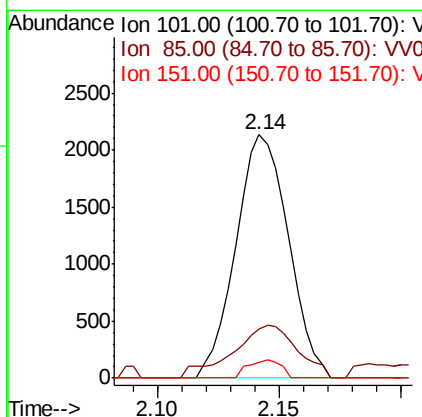
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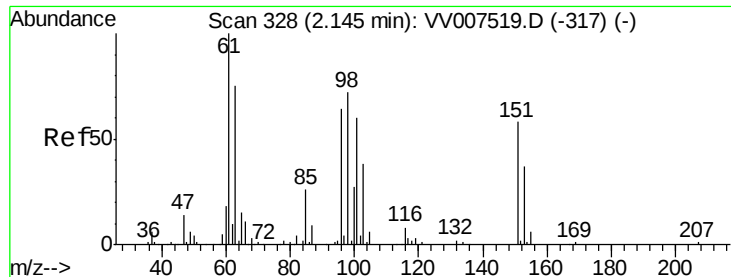
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#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.353 ug/L
 RT: 2.14 min Scan# 327
 Delta R.T. 0.00 min
 Lab File: VV007523.D
 Acq: 13 Sep 2018 21:31

Tgt Ion	Ratio	Lower	Upper
101	100		
85	26.5	34.8	52.2#
151	4.7	72.6	109.0#





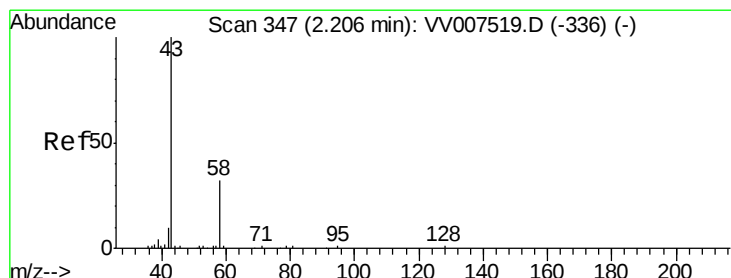
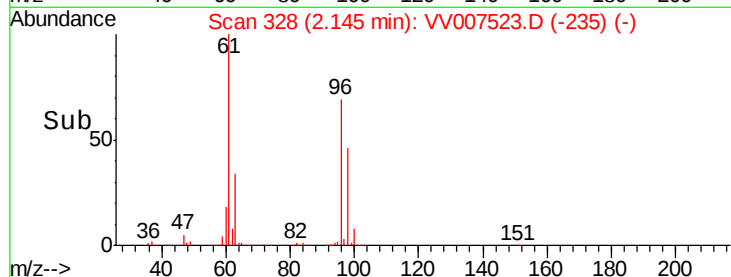
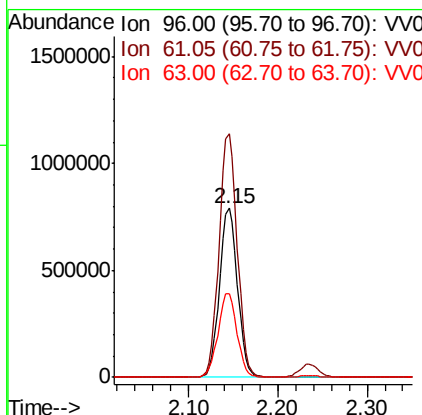
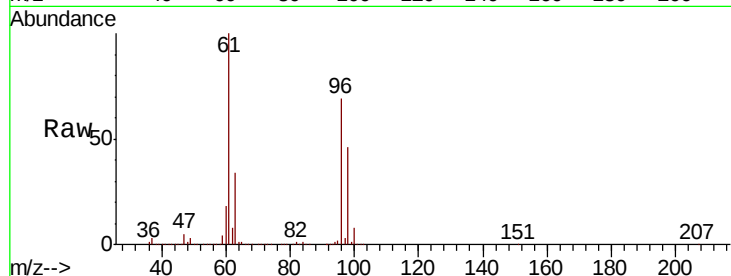
#12
 1,1-Dichloroethene
 Concen: 136.754 ug/L
 RT: 2.15 min Scan# 328
 Delta R.T. 0.00 min
 Lab File: VV007523.D
 Acq: 13 Sep 2018 21:31

Instrument :
 MSVOA_V
 ClientSampleId :
 C0D08

Tgt Ion: 96 Resp: 1109374
 Ion Ratio Lower Upper
 96 100
 61 143.9 114.8 213.2
 63 49.4 81.8 151.8#

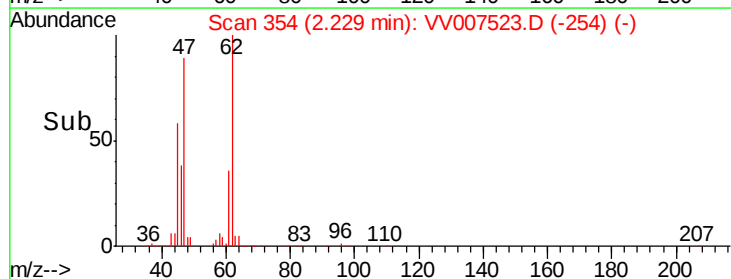
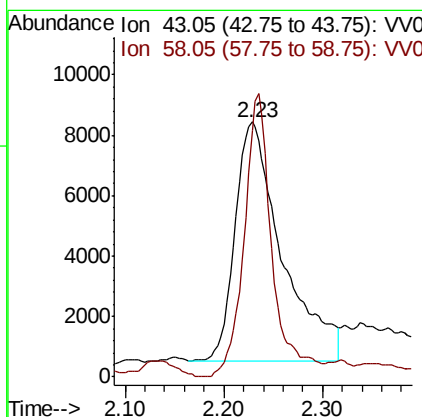
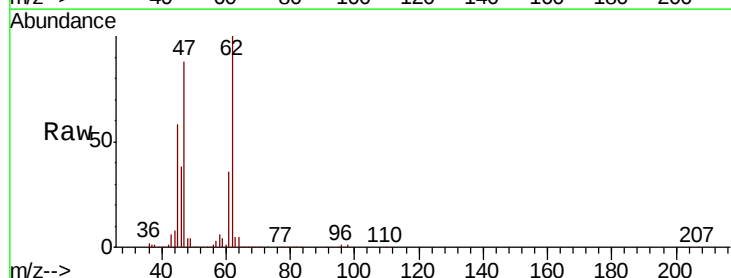
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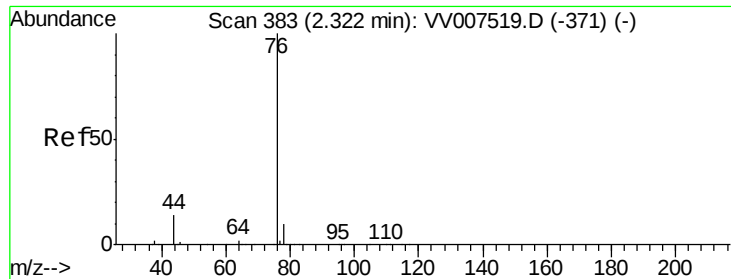
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#13
 Acetone
 Concen: 34.384 ug/L
 RT: 2.23 min Scan# 354
 Delta R.T. 0.02 min
 Lab File: VV007523.D
 Acq: 13 Sep 2018 21:31

Tgt Ion: 43 Resp: 26151
 Ion Ratio Lower Upper
 43 100
 58 67.8 0.0 63.4#





#14

Carbon disulfide

Concen: 0.282 ug/L

RT: 2.33 min Scan# 384

Delta R.T. 0.00 min

Lab File: VV007523.D

Acq: 13 Sep 2018 21:31

Instrument :

MSVOA_V

ClientSampleId :

C0D08

Tgt Ion: 76 Resp: 6691

Ion Ratio Lower Upper

76 100

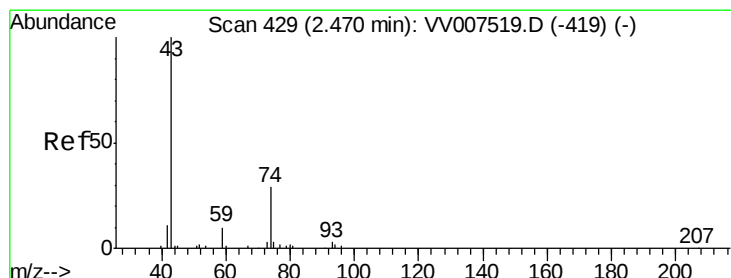
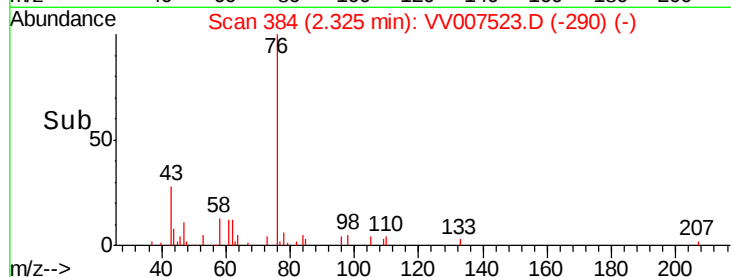
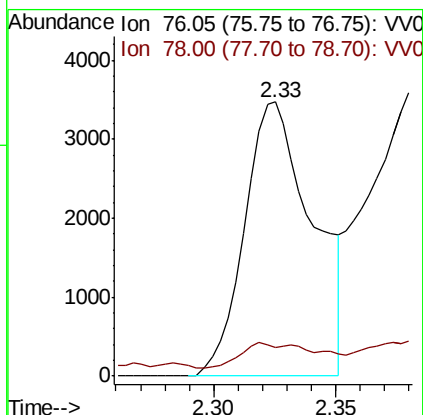
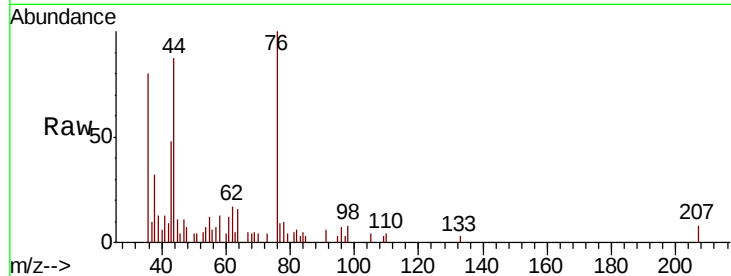
78 10.2 7.4 11.0

Manual Integrations

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#15

Methyl Acetate

Concen: 4.391 ug/L

RT: 2.48 min Scan# 432

Delta R.T. 0.01 min

Lab File: VV007523.D

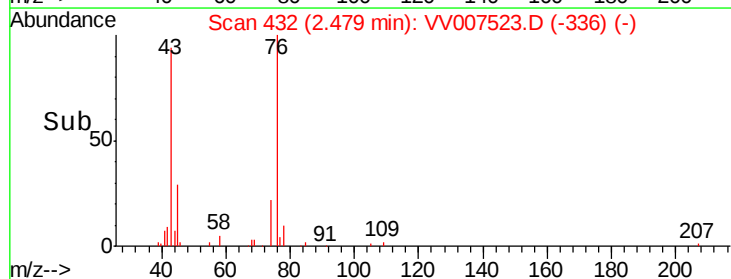
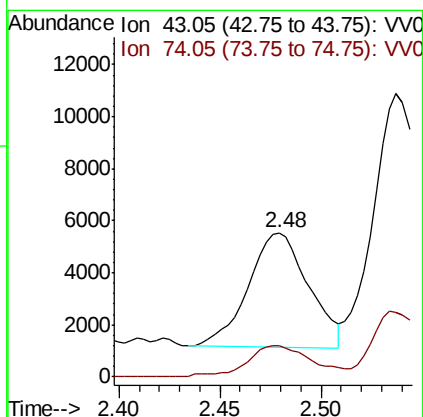
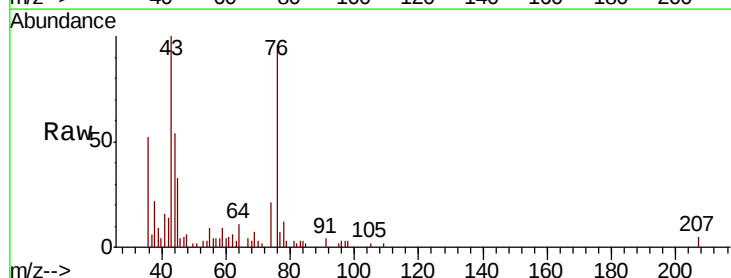
Acq: 13 Sep 2018 21:31

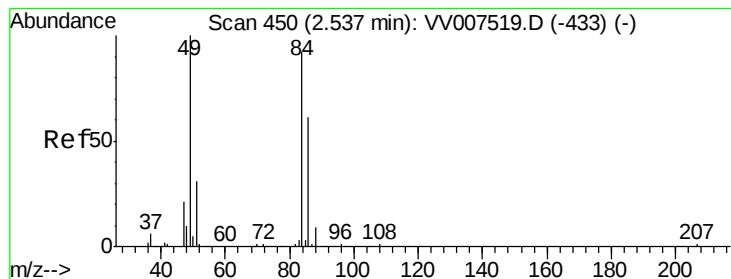
Tgt Ion: 43 Resp: 9153

Ion Ratio Lower Upper

43 100

74 29.3 25.4 38.2





#16

Methylene chloride

Concen: 549.443 ug/L

RT: 2.54 min Scan# 450

Delta R.T. 0.00 min

Lab File: VV007523.D

Acq: 13 Sep 2018 21:31

Instrument :

MSVOA_V

ClientSampleId :

C0D08

Tgt Ion: 84 Resp: 4817799

Ion Ratio Lower Upper

84 100

86 66.2 43.7 81.1

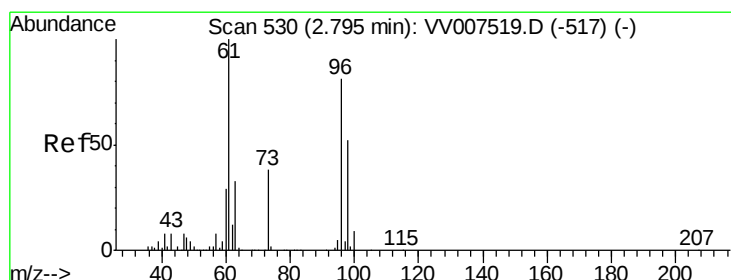
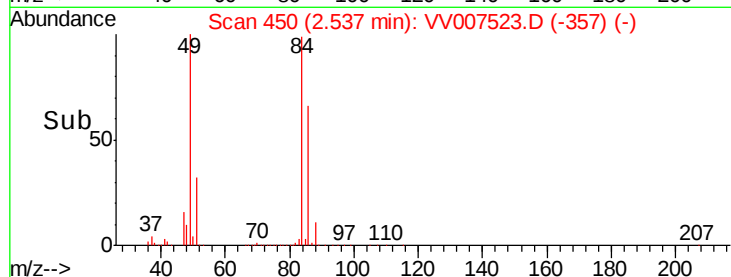
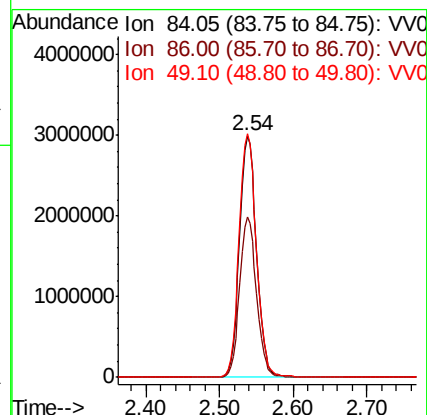
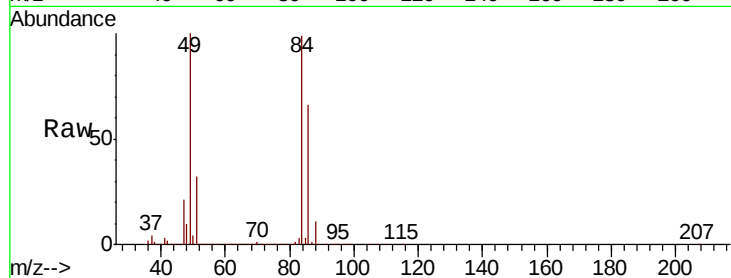
49 100.8 76.8 142.6

Manual Integrations

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#18

trans-1,2-Dichloroethene

Concen: 5.091 ug/L

RT: 2.79 min Scan# 530

Delta R.T. 0.00 min

Lab File: VV007523.D

Acq: 13 Sep 2018 21:31

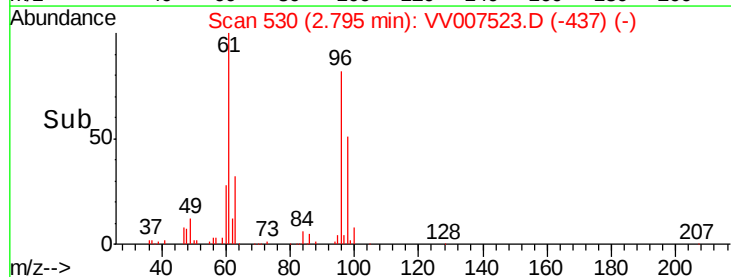
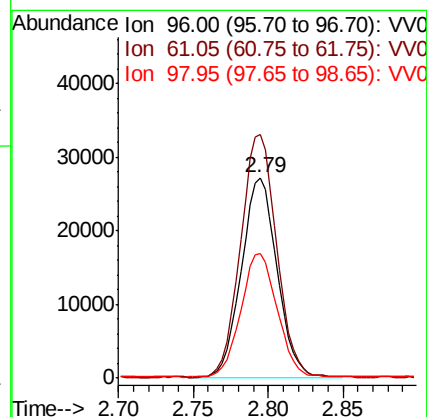
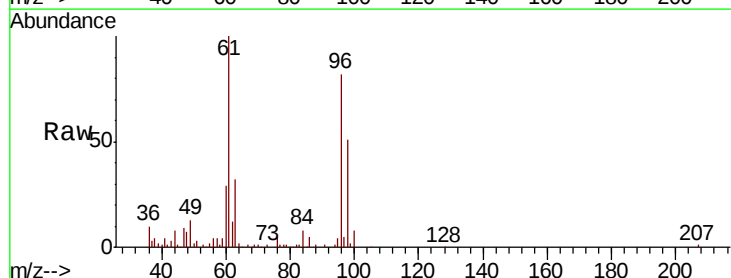
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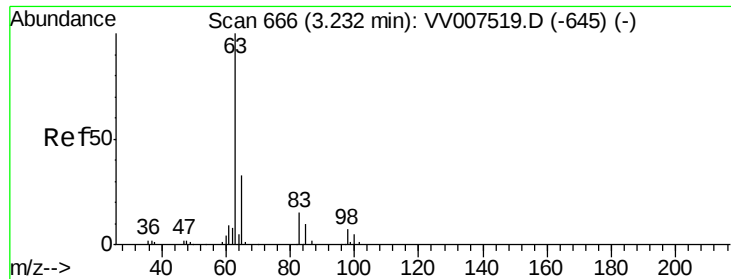
Ion Ratio Lower Upper

96 100

61 121.6 86.8 161.2

98 62.3 44.4 82.4





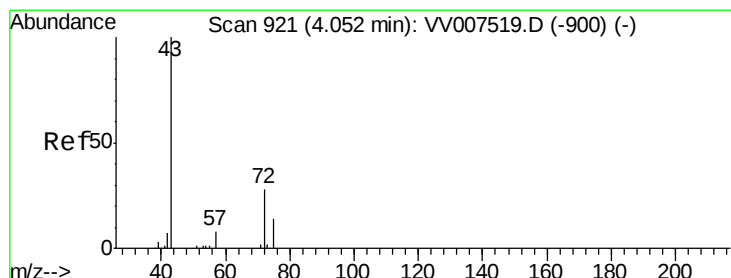
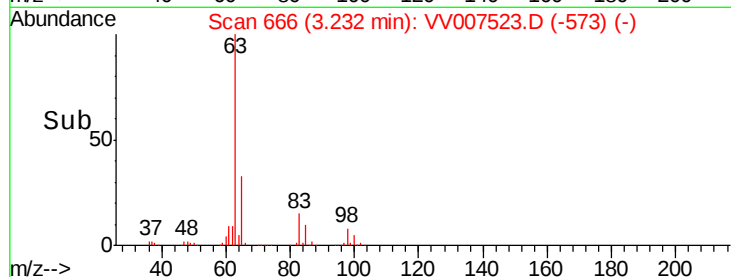
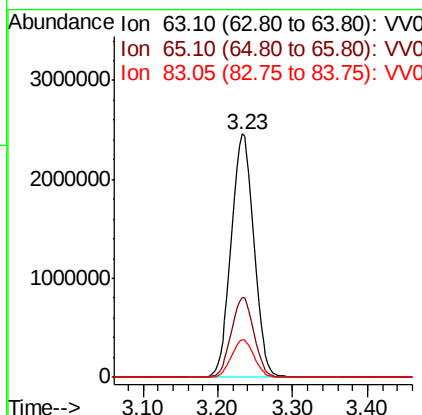
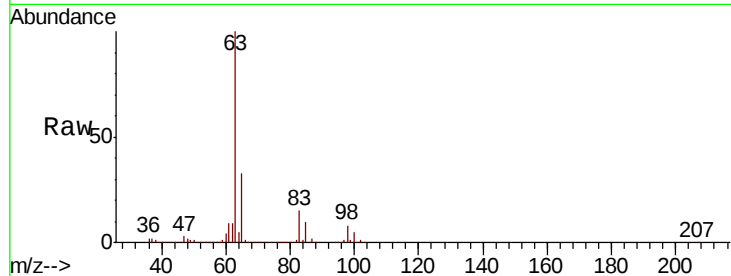
#19
 1,1-Dichloroethane
 Concen: 405.011 ug/L
 RT: 3.23 min Scan# 666
 Delta R.T. 0.00 min
 Lab File: VV007523.D
 Acq: 13 Sep 2018 21:31

Instrument :
 MSVOA_V
 ClientSampleId :
 C0D08

Tgt Ion	Ratio	Lower	Upper
63	100		
65	33.0	22.5	41.9
83	15.5	10.4	19.2

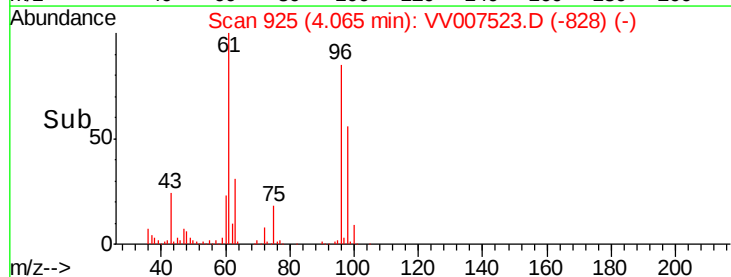
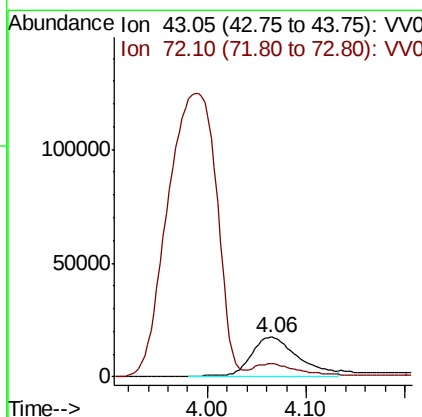
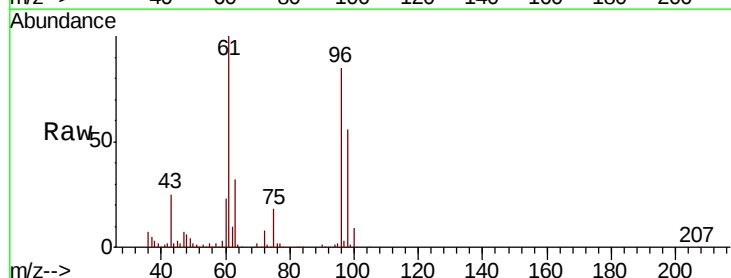
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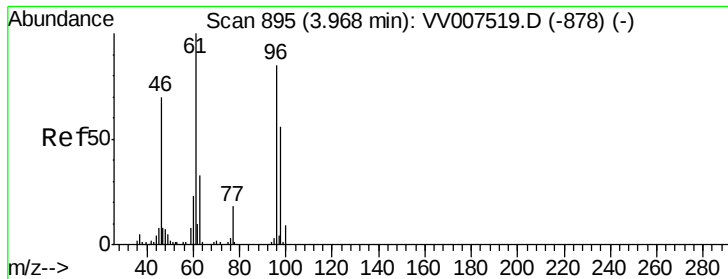
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#21
 2-Butanone
 Concen: 43.976 ug/L
 RT: 4.06 min Scan# 925
 Delta R.T. 0.01 min
 Lab File: VV007523.D
 Acq: 13 Sep 2018 21:31

Tgt Ion	Ratio	Lower	Upper
43	100		
72	28.1	14.2	42.6





#22

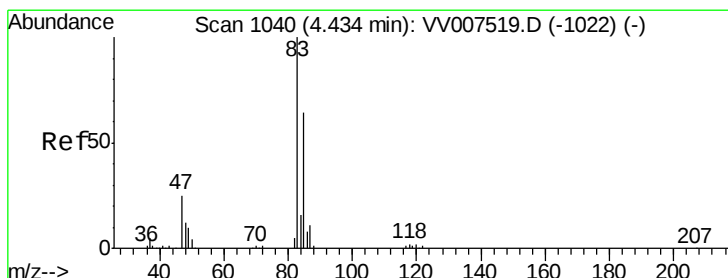
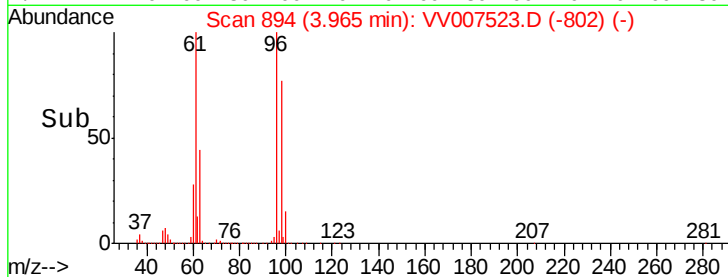
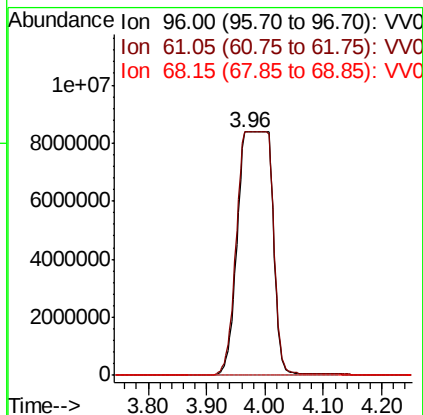
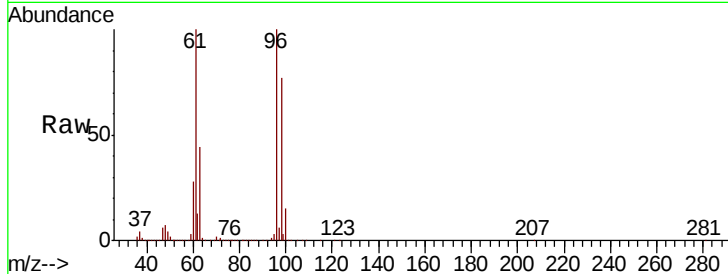
cis-1,2-Dichloroethene
Concen: 3961.177 ug/L m
RT: 3.96 min Scan# 894
Delta R.T. -0.00 min
Lab File: VV007523.D
Acq: 13 Sep 2018 21:31

Instrument :
MSVOA_V
ClientSampleId :
C0D08

Tgt Ion: 96 Resp: 34457168
Ion Ratio Lower Upper
96 100
61 100.0 85.3 158.5
68 0.0 0.0 0.0

Manual Integrations
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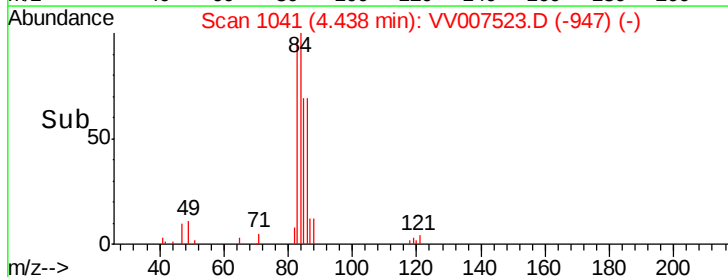
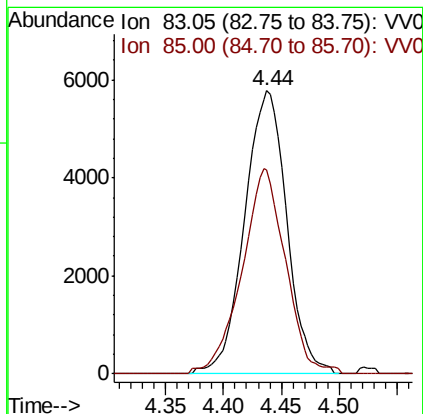
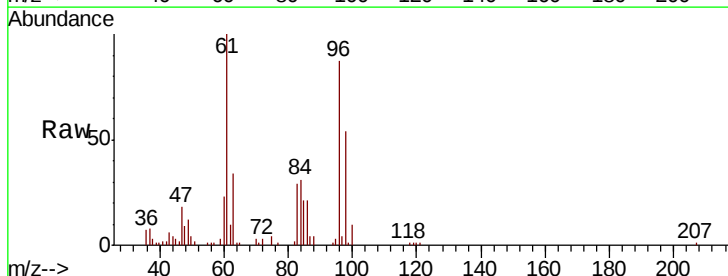
MMDadoda
9/17/2018 12:29:30 PM

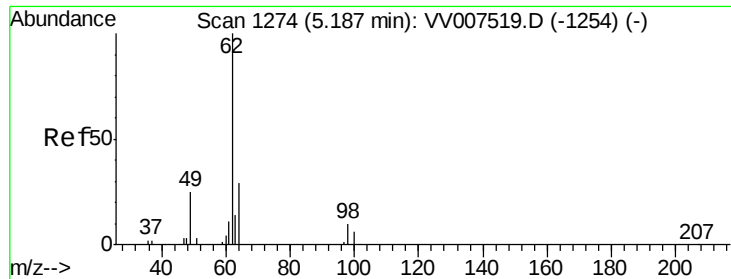


#25

Chloroform
Concen: 0.996 ug/L
RT: 4.44 min Scan# 1041
Delta R.T. 0.00 min
Lab File: VV007523.D
Acq: 13 Sep 2018 21:31

Tgt Ion: 83 Resp: 14639
Ion Ratio Lower Upper
83 100
85 72.1 45.5 84.5





#27

1,2-Dichloroethane

Concen: 6.292 ug/L

RT: 5.19 min Scan# 1275

Delta R.T. 0.00 min

Lab File: VV007523.D

Acq: 13 Sep 2018 21:31

Instrument :

MSVOA_V

ClientSampled :

C0D08

Tgt Ion: 62 Resp: 53265

Ion Ratio Lower Upper

62 100

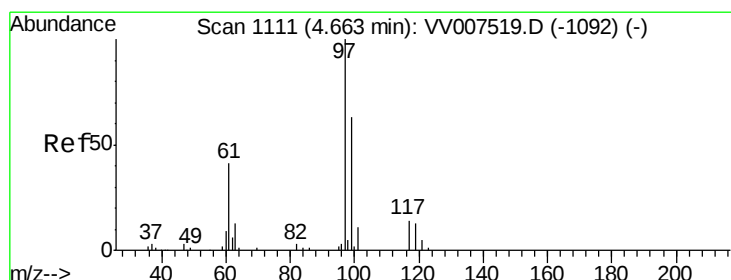
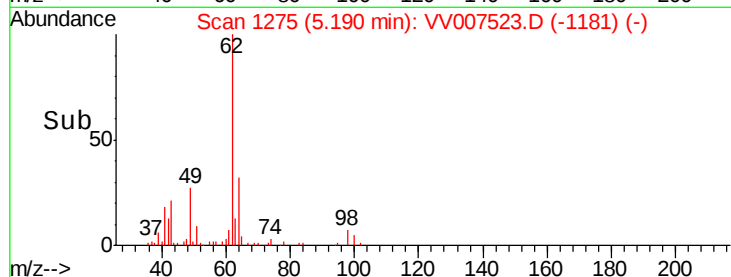
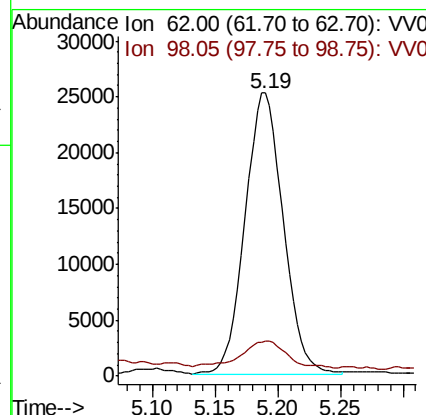
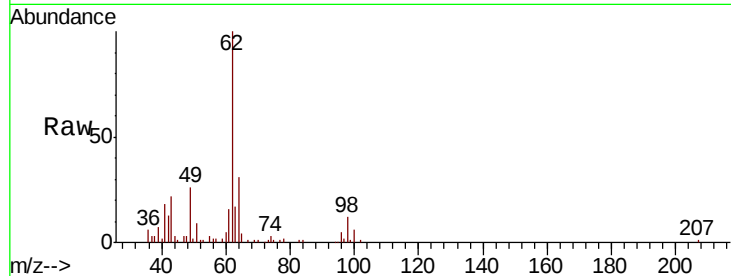
98 12.3 7.6 11.4#

Manual Integrations

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#29

1,1,1-Trichloroethane

Concen: 555.993 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. 0.01 min

Lab File: VV007523.D

Acq: 13 Sep 2018 21:31

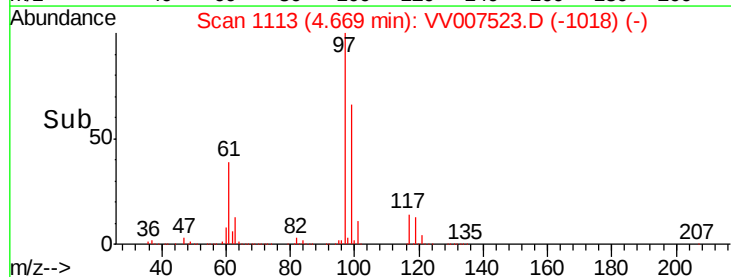
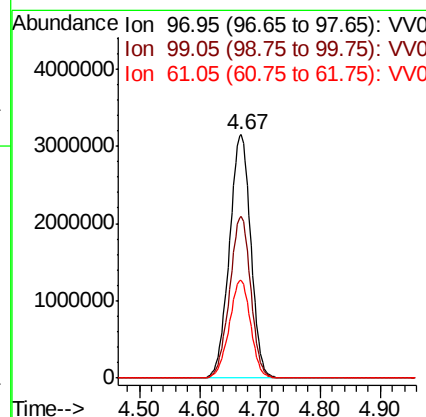
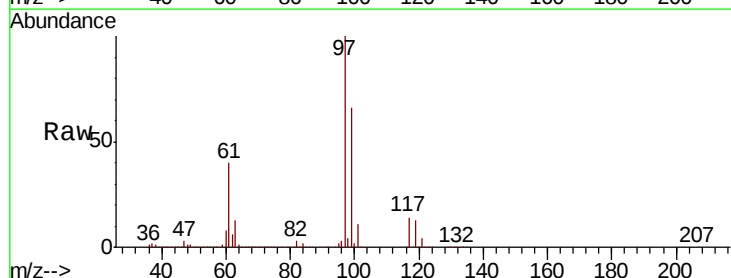
Tgt Ion: 97 Resp: 7743147

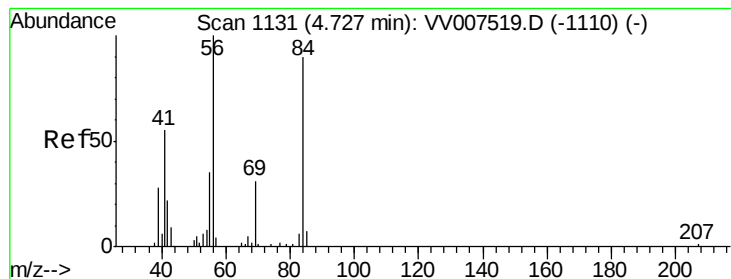
Ion Ratio Lower Upper

97 100

99 65.7 50.7 76.1

61 39.8 32.5 48.7





#30

Cyclohexane

Concen: 0.725 ug/L

RT: 4.73 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VV007523.D

Acq: 13 Sep 2018 21:31

Instrument :

MSVOA_V

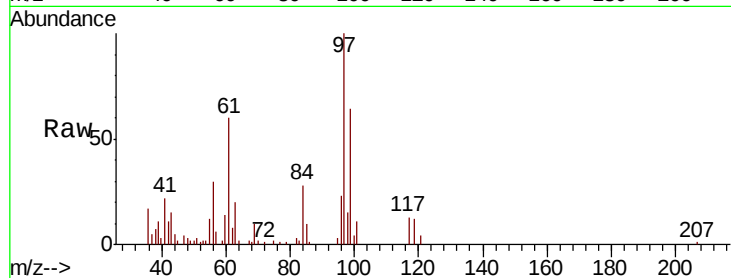
ClientSampleId :

C0D08

Tgt Ion:	56	Resp:	8798
Ion Ratio	Lower	Upper	
56	100		
69	30.8	26.1	39.1
84	82.0	78.0	117.0

Manual Integrations
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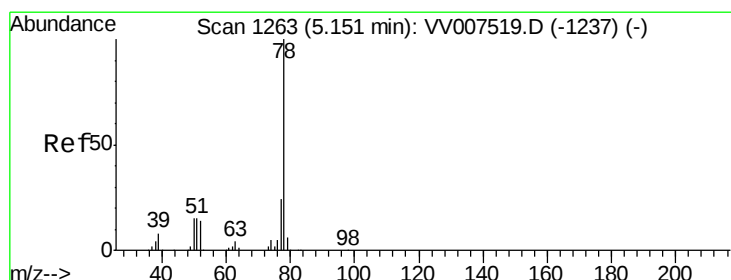
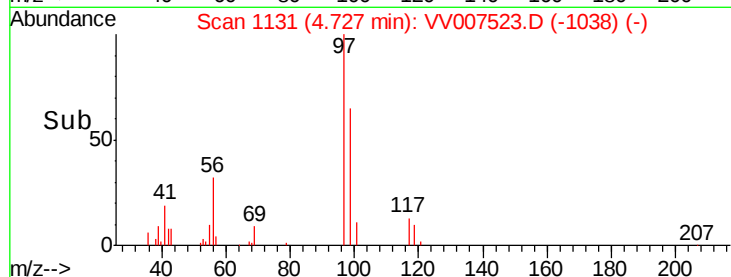
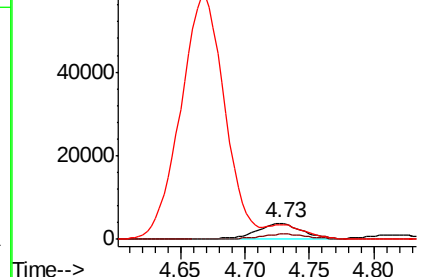
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Abundance Ion 56.10 (55.80 to 56.80): VV007519.D (-1110) (-)

Ion 69.15 (68.85 to 69.85): VV007519.D (-1110) (-)

Ion 84.15 (83.85 to 84.85): VV007519.D (-1110) (-)



#33

Benzene

Concen: 0.868 ug/L

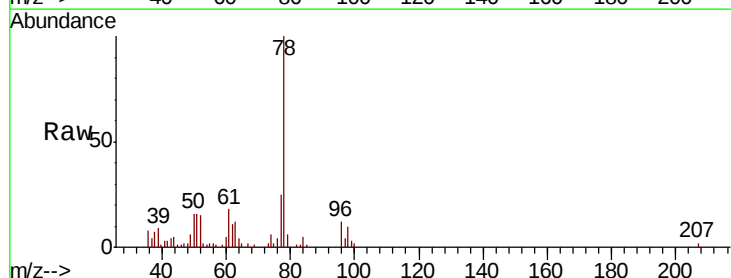
RT: 5.15 min Scan# 1264

Delta R.T. 0.00 min

Lab File: VV007523.D

Acq: 13 Sep 2018 21:31

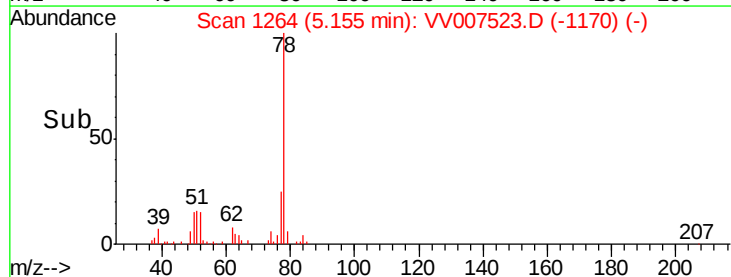
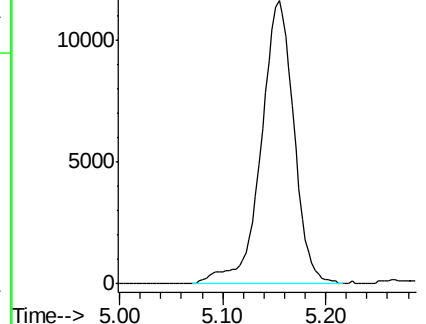
Tgt Ion: 78 Resp: 25663

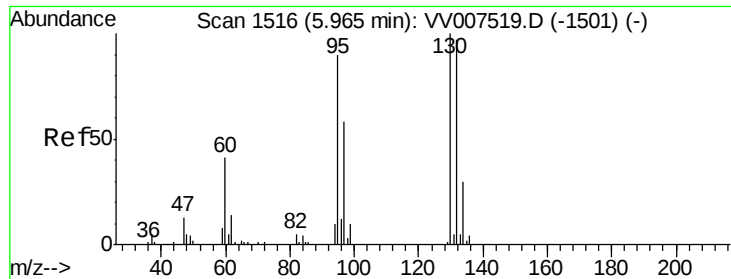


Abundance Ion 78.10 (77.80 to 78.80): VV007519.D (-1237) (-)

Ion 96.15 (95.85 to 96.85): VV007519.D (-1237) (-)

Ion 117.15 (116.85 to 117.85): VV007519.D (-1237) (-)





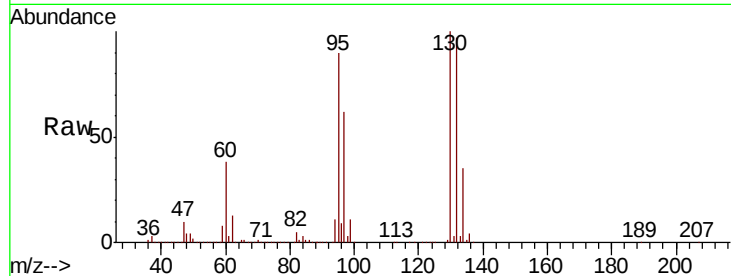
#34
 Trichloroethene
 Concen: 1091.462 ug/L
 RT: 5.97 min Scan# 1519
 Delta R.T. 0.01 min
 Lab File: VV007523.D
 Acq: 13 Sep 2018 21:31

Instrument :
 MSVOA_V
 ClientSampleId :
 C0D08

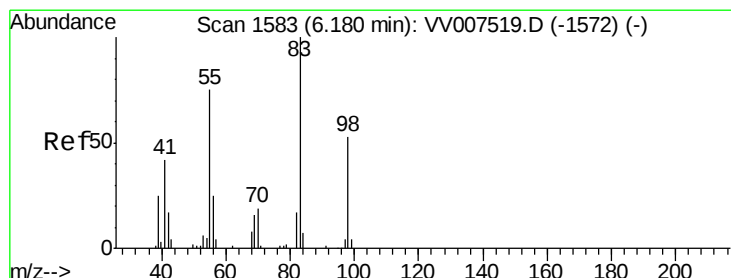
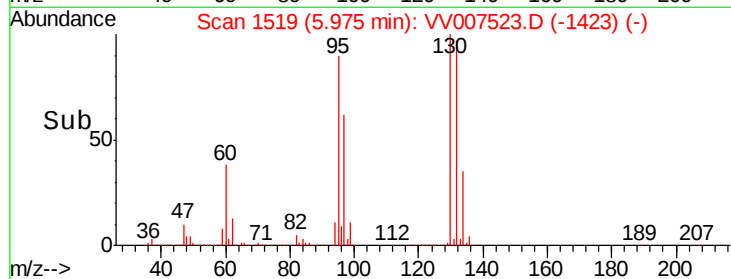
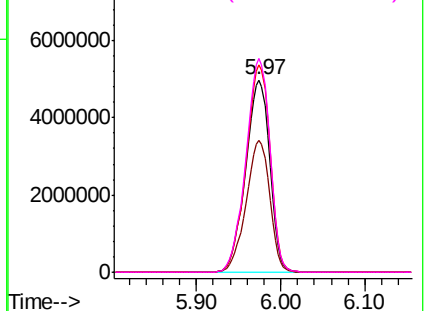
Tgt Ion: 95 Resp: 9898605
 Ion Ratio Lower Upper
 95 100
 97 68.8 45.5 84.5
 132 108.2 74.9 139.1
 130 111.1 80.0 148.6

Manual Integrations
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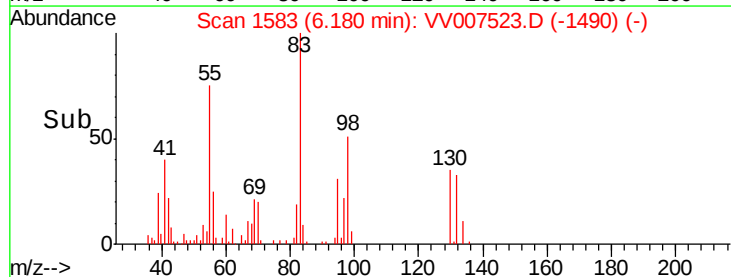
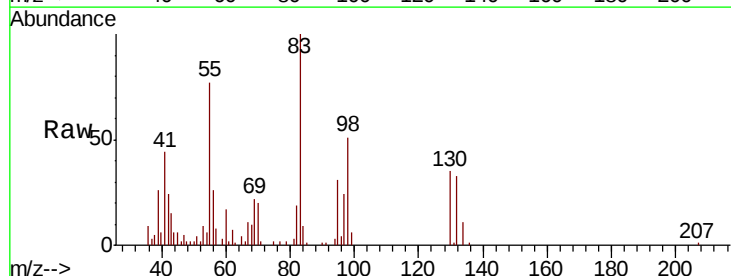
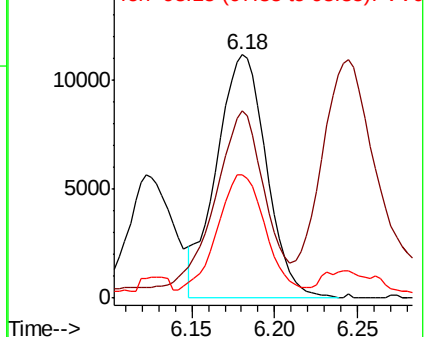
Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 96.95 (96.65 to 97.65): VV0
 Ion 131.95 (131.65 to 132.65): VV0
 Ion 129.95 (129.65 to 130.65): VV0

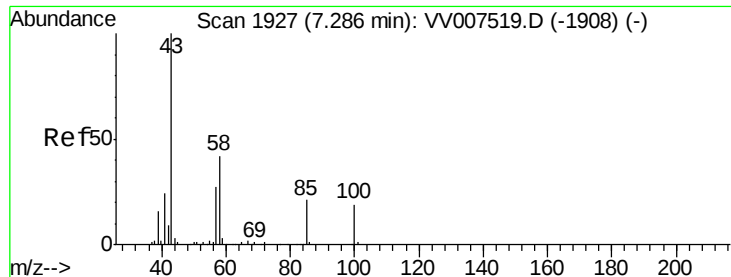


#35
 Methylcyclohexane
 Concen: 1.667 ug/L
 RT: 6.18 min Scan# 1583
 Delta R.T. 0.00 min
 Lab File: VV007523.D
 Acq: 13 Sep 2018 21:31

Tgt Ion: 83 Resp: 23352
 Ion Ratio Lower Upper
 83 100
 55 71.3 55.0 82.4
 98 43.6 37.6 56.4

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





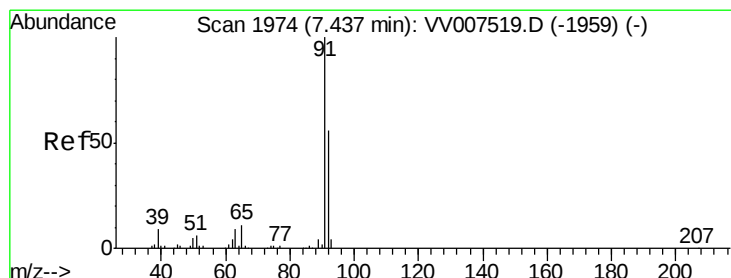
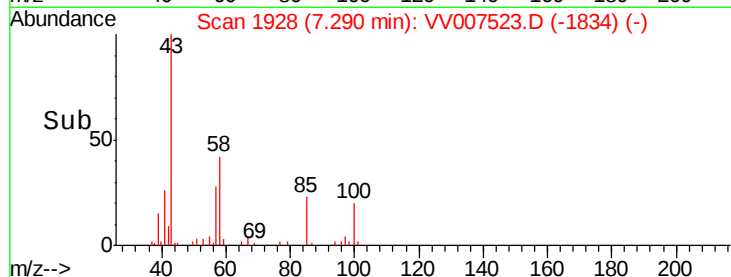
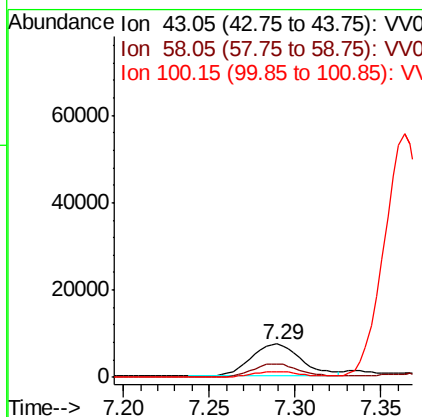
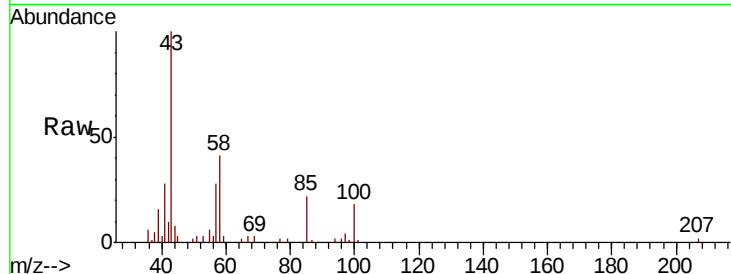
#40
4-Methyl-2-pentanone
Concen: 3.647 ug/L
RT: 7.29 min Scan# 1928
Delta R.T. 0.00 min
Lab File: VV007523.D
Acq: 13 Sep 2018 21:31

Instrument :
MSVOA_V
ClientSampleId :
C0D08

Tgt Ion	Ratio	Lower	Upper
43	100		
58	42.3	32.6	49.0
100	0.0	13.5	20.3

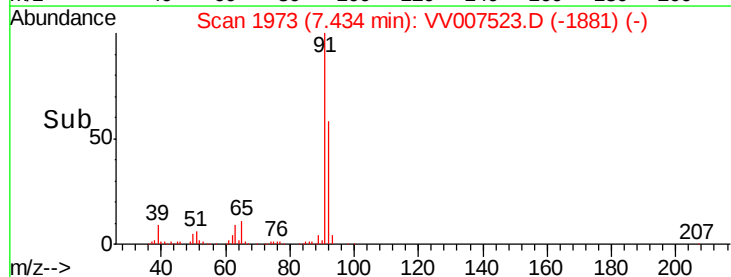
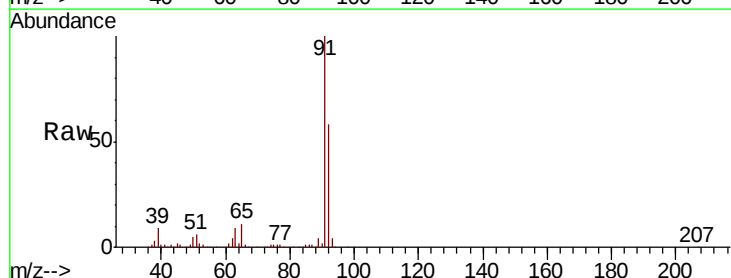
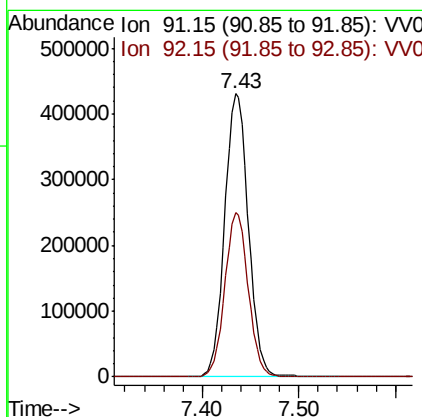
Manual Integrations
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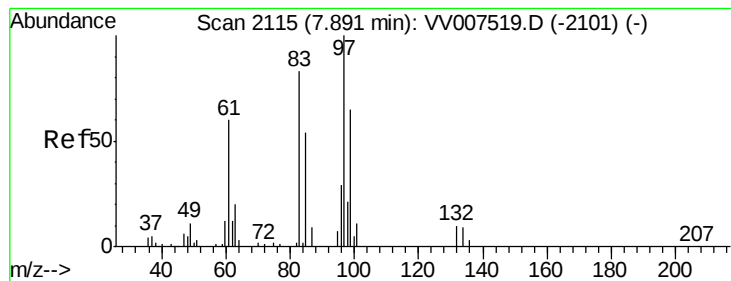
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#42
Toluene
Concen: 21.516 ug/L
RT: 7.43 min Scan# 1973
Delta R.T. -0.00 min
Lab File: VV007523.D
Acq: 13 Sep 2018 21:31

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.2	40.3	74.8





#45

1,1,2-Trichloroethane

Concen: 9.529 ug/L

RT: 7.89 min Scan# 2114

Delta R.T. -0.00 min

Lab File: VV007523.D

Acq: 13 Sep 2018 21:31

Instrument :

MSVOA_V

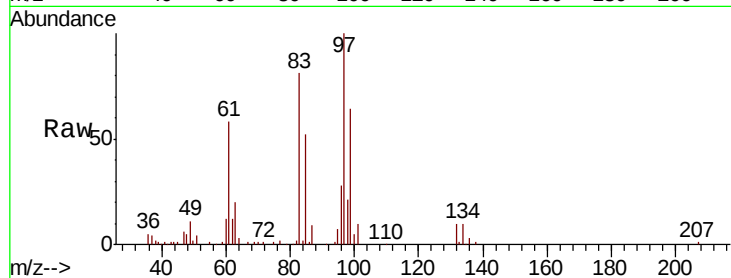
ClientSampleId :

C0D08

Tgt Ion	Resp	Lower	Upper
97	100		
99	63.6	42.9	79.7
83	81.2	58.1	107.9
85	52.2	38.3	71.1

Manual Integrations
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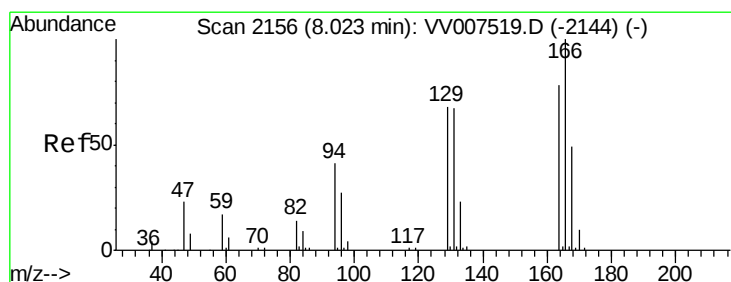
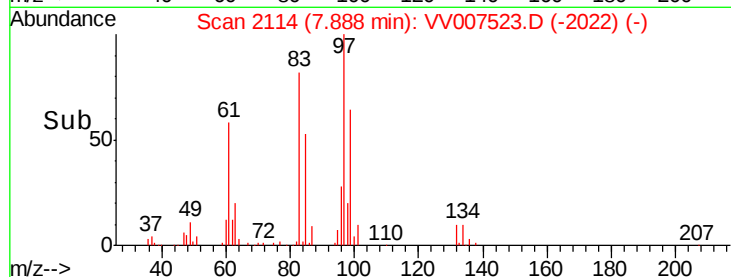
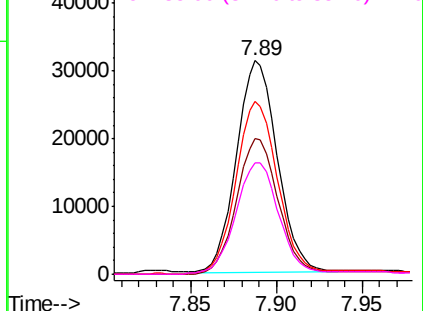
Abundance

Ion 96.95 (96.65 to 97.65): VV007519.D (-2101) (-)

Ion 99.05 (98.75 to 99.75): VV007519.D (-2101) (-)

Ion 82.95 (82.65 to 83.65): VV007519.D (-2101) (-)

Ion 85.00 (84.70 to 85.70): VV007519.D (-2101) (-)



#47

Tetrachloroethene

Concen: 0.543 ug/L

RT: 8.02 min Scan# 2156

Delta R.T. 0.00 min

Lab File: VV007523.D

Acq: 13 Sep 2018 21:31

Tgt Ion	Resp	Lower	Upper
164	100		
129	80.4	61.9	115.1
131	87.4	62.1	115.3
166	118.5	90.4	167.8

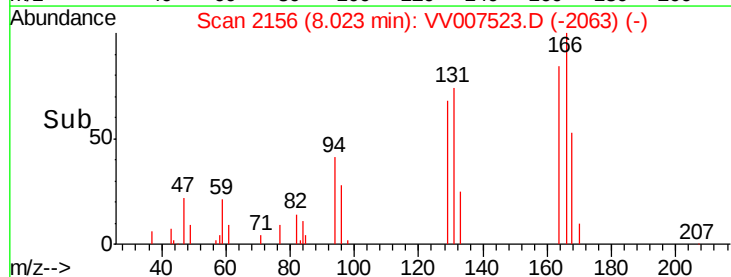
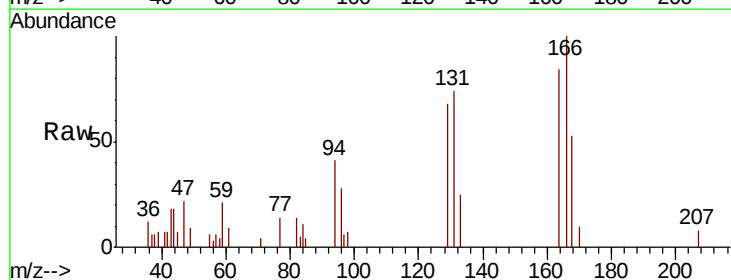
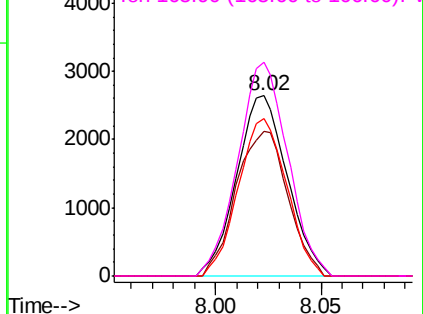
Abundance

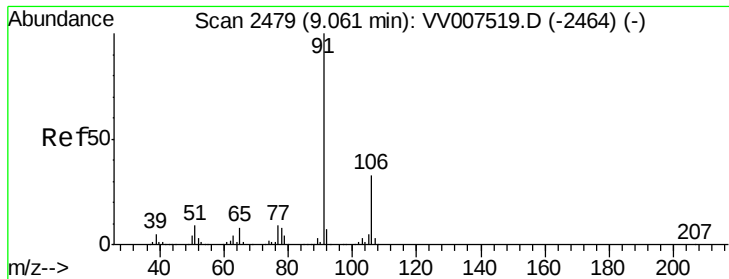
Ion 163.90 (163.60 to 164.60): VV007519.D (-2144) (-)

Ion 128.95 (128.65 to 129.65): VV007519.D (-2144) (-)

Ion 130.95 (130.65 to 131.65): VV007519.D (-2144) (-)

Ion 165.90 (165.60 to 166.60): VV007519.D (-2144) (-)





#52

Ethylbenzene

Concen: 64.110 ug/L

RT: 9.06 min Scan# 2479

Delta R.T. 0.00 min

Lab File: VV007523.D

Acq: 13 Sep 2018 21:31

Instrument :

MSVOA_V

ClientSampled :

C0D08

Tgt Ion: 91 Resp: 2466981

Ion Ratio Lower Upper

91 100

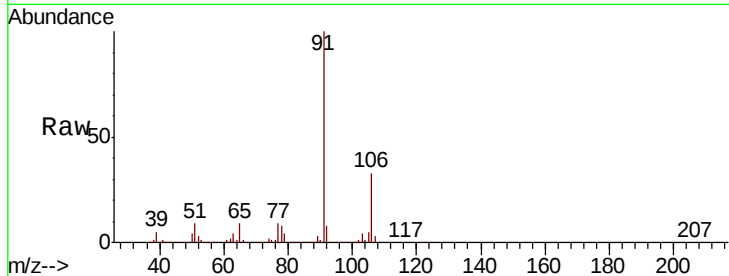
106 32.8 22.0 41.0

Manual Integrations

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Abundance Ion 91.15 (90.85 to 91.85): VV007519.D (-2464) (-)

Ion 106.15 (105.85 to 106.85): VV007519.D (-2464) (-)

4000000

3000000

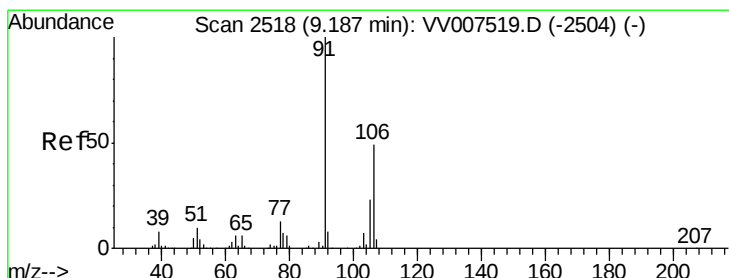
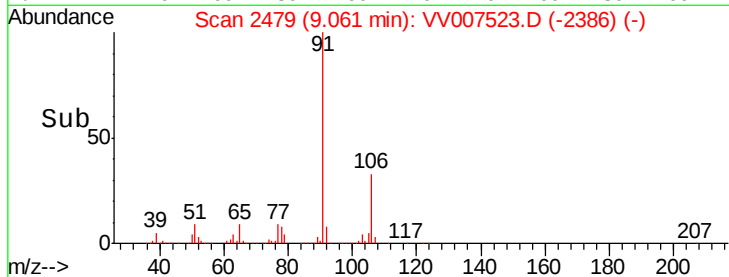
2000000

1000000

0

9.00 9.10

Time-->



#53

m,p-xylene

Concen: 205.114 ug/L

RT: 9.19 min Scan# 2518

Delta R.T. 0.00 min

Lab File: VV007523.D

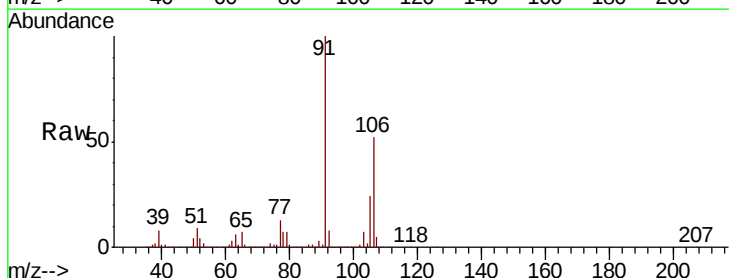
Acq: 13 Sep 2018 21:31

Tgt Ion: 106 Resp: 3057910

Ion Ratio Lower Upper

106 100

91 192.4 137.2 254.8



Abundance Ion 106.15 (105.85 to 106.85): VV007519.D (-2504) (-)

Ion 91.15 (90.85 to 91.85): VV007519.D (-2504) (-)

4000000

3000000

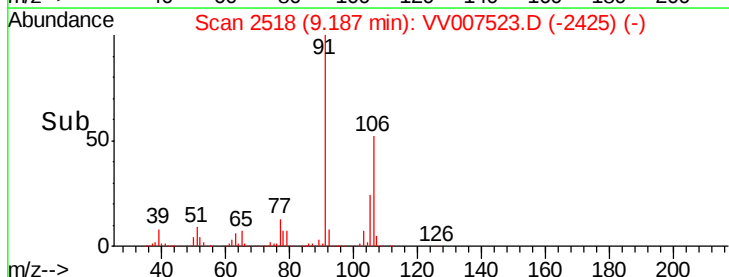
2000000

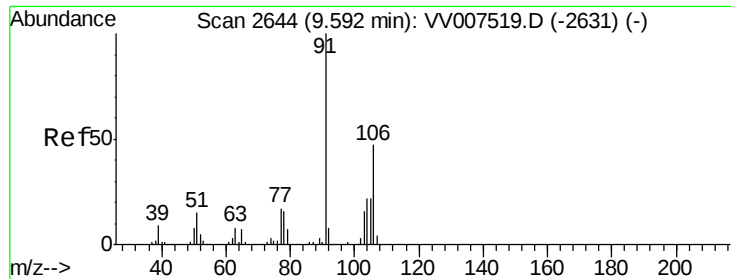
1000000

0

9.10 9.20 9.30

Time-->





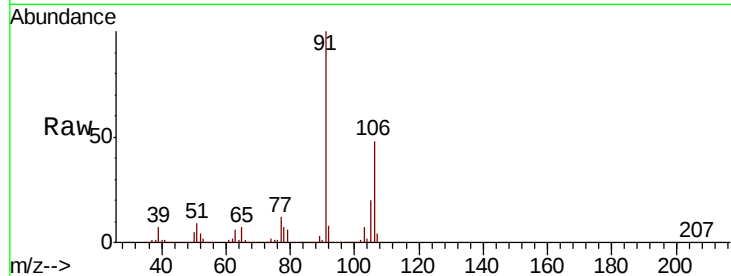
#54
o-xylene
Concen: 87.274 ug/L
RT: 9.59 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VV007523.D
Acq: 13 Sep 2018 21:31

Instrument :
MSVOA_V
ClientSampleId :
C0D08

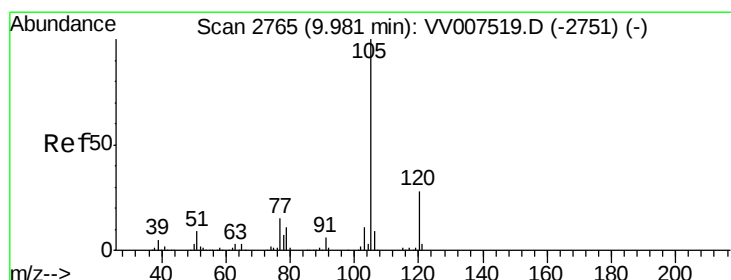
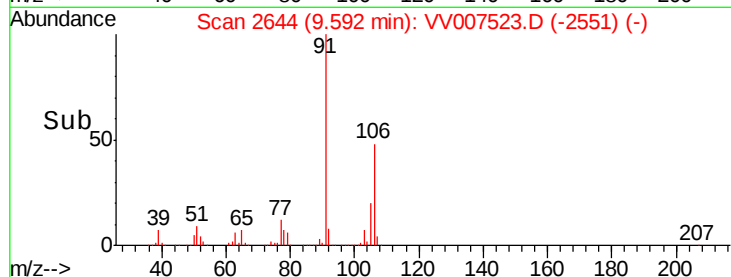
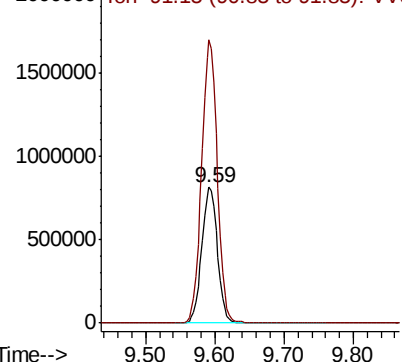
Tgt Ion:106 Resp: 1274169
Ion Ratio Lower Upper
106 100
91 208.1 147.6 274.0

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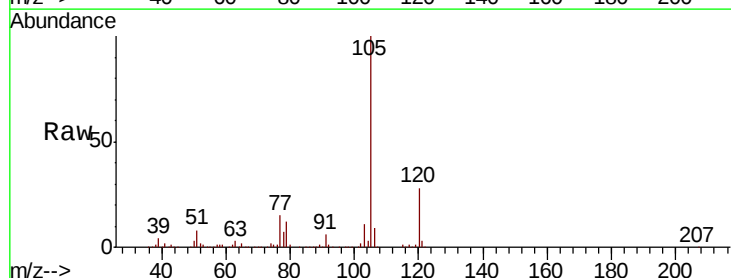


Abundance Ion 106.15 (105.85 to 106.85): V
2000000 Ion 91.15 (90.85 to 91.85): VV0

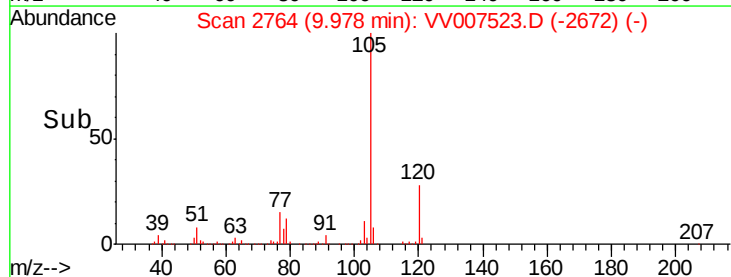
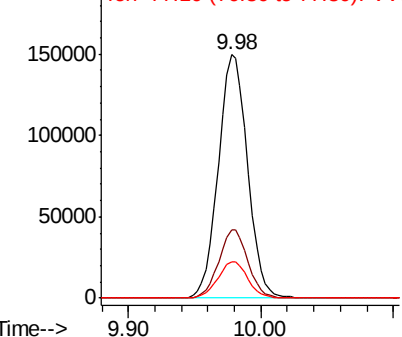


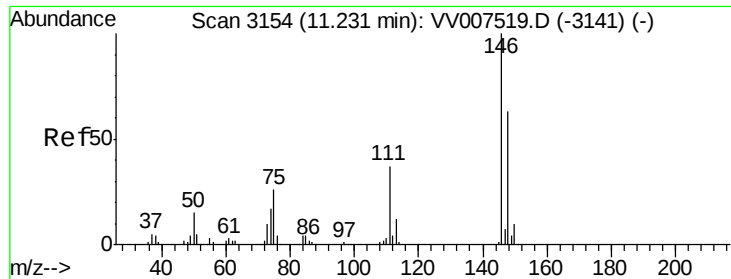
#56
Isopropylbenzene
Concen: 5.777 ug/L
RT: 9.98 min Scan# 2764
Delta R.T. -0.00 min
Lab File: VV007523.D
Acq: 13 Sep 2018 21:31

Tgt Ion:105 Resp: 228996
Ion Ratio Lower Upper
105 100
120 27.9 22.2 33.2
77 14.9 12.2 18.4



Abundance Ion 105.05 (104.75 to 105.75): V
200000 Ion 120.10 (119.80 to 120.80): V
Ion 77.10 (76.80 to 77.80): VV0





#62

1,3-Dichlorobenzene

Concen: 0.112 ug/L

RT: 11.23 min Scan# 3154

Delta R.T. 0.00 min

Lab File: VV007523.D

Acq: 13 Sep 2018 21:31

Instrument :

MSVOA_V

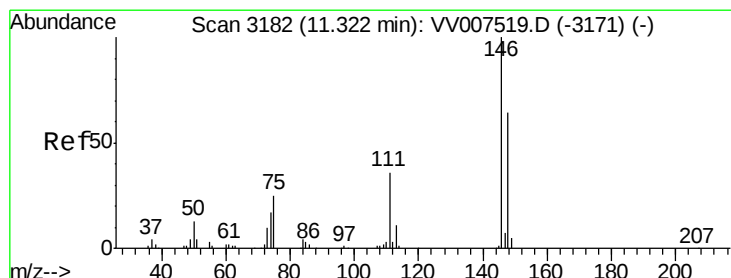
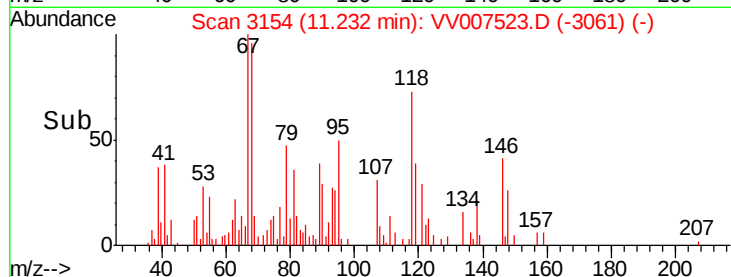
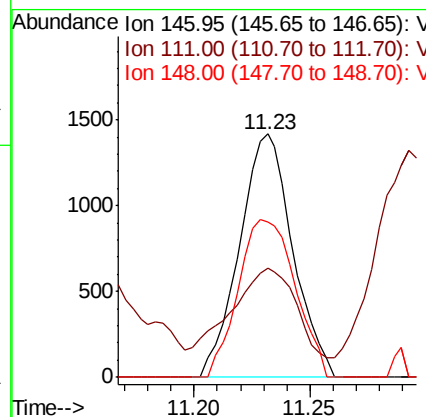
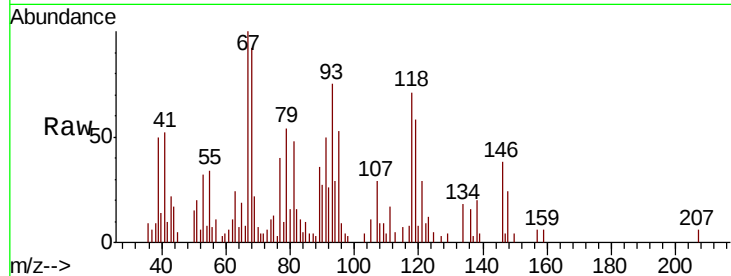
ClientSampled :

C0D08

Tgt Ion:	146	Resp:	2259
Ion Ratio	Lower	Upper	
146	100		
111	44.7	25.3	47.1
148	64.0	44.6	82.8

Manual Integrations
APPROVED

MMDadoda
9/17/2018 12:29:30 PM



#63

1,4-Dichlorobenzene

Concen: 0.096 ug/L

RT: 11.32 min Scan# 3183

Delta R.T. 0.00 min

Lab File: VV007523.D

Acq: 13 Sep 2018 21:31

Tgt Ion:	146	Resp:	1939
Ion Ratio	Lower	Upper	
146	100		
111	37.3	24.5	45.5
148	62.1	45.1	83.9

