

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV011420\
 Data File : VV014291.D
 Acq On : 14 Jan 2020 12:05
 Operator : SY/MD
 Sample : L1109-24
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 GASJ3

Manual Integrations
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MMDadoda
 1/15/2020 12:28:30 PM

Quant Time: Jan 15 11:05:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR010220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Jan 14 22:19:33 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	1013060	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	930910	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	436813	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	281792	3.98	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	79.60%
7) Chloroethane-d5	1.58	69	230108	4.20	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	84.00%
11) 1,1-Dichloroethene-d2	2.13	63	420591	4.02	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	80.40%
20) 2-Butanone-d5	3.96	46	724736	42.56	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	85.12%
24) Chloroform-d	4.40	84	593336	4.33	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.60%
26) 1,2-Dichloroethane-d4	5.08	65	288314	4.20	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.00%
32) Benzene-d6	5.09	84	1249165	4.50	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.00%
36) 1,2-Dichloropropane-d6	6.11	67	395018	4.59	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	91.80%
41) Toluene-d8	7.35	98	1143413	4.50	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.00%
43) trans-1,3-Dichloropropene-	7.66	79	158851	4.17	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	83.40%
46) 2-Hexanone-d5	8.13	63	650783	40.34	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	80.68%
57) 1,1,2,2-Tetrachloroethane-	10.25	84	252609	4.19	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	83.80%
64) 1,2-Dichlorobenzene-d4	11.67	152	359175	4.38	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	87.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.26	50	274437	3.615	ug/L	99
6) Bromomethane	1.54	94	146594	3.644	ug/L	98
9) Trichlorofluoromethane	1.77	101	617563	7.378	ug/L	100
12) 1,1-Dichloroethene	2.14	96	158961	3.512	ug/L #	86
13) Acetone	2.23	43	697867m	59.515	ug/L	
14) Carbon disulfide	2.32	76	1010944	5.034	ug/L	98
16) Methylene chloride	2.53	84	169722	2.304	ug/L	95
17) Methyl tert-butyl Ether	2.80	73	1305362	7.793	ug/L	99
19) 1,1-Dichloroethane	3.23	63	1126411	8.447	ug/L	98
21) 2-Butanone	4.04	43	2037702	115.851	ug/L	100
27) 1,2-Dichloroethane	5.18	62	499594	6.541	ug/L #	94
29) 1,1,1-Trichloroethane	4.65	97	907595	8.190	ug/L	99
30) Cyclohexane	4.72	56	1377733	11.260	ug/L	97
34) Trichloroethene	5.96	95	361716	4.910	ug/L	98
35) Methylcyclohexane	6.17	83	786957	6.533	ug/L	96
37) 1,2-Dichloropropane	6.22	63	141758	1.959	ug/L	100
42) Toluene	7.42	91	2420120	7.997	ug/L	100

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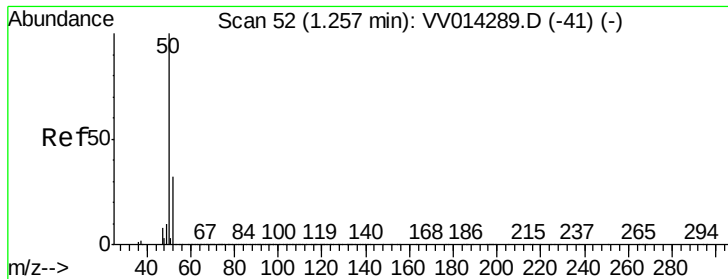
Manual Integrations
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Quant Time: Jan 15 11:05:04 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR010220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Jan 14 22:19:33 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Tetrachloroethene	8.01	164	411303	8.172	ug/L	98
48) 2-Hexanone	8.18	43	1750266	55.473	ug/L	97
50) 1,2-Dibromoethane	8.39	107	622644	13.909	ug/L #	95
51) Chlorobenzene	8.92	112	1836424	9.867	ug/L	99
52) Ethylbenzene	9.05	91	2046753	6.046	ug/L	99
53) m,p-xylene	9.18	106	1537652	12.311	ug/L	99
54) o-xylene	9.58	106	621817	5.063	ug/L	98
55) Styrene	9.60	104	1031731	4.959	ug/L	97
56) Isopropylbenzene	9.97	105	1054759	3.292	ug/L	99
61) Bromoform	9.77	173	133361	4.504	ug/L	100
63) 1,4-Dichlorobenzene	11.31	146	555964	4.094	ug/L	99
65) 1,2-Dichlorobenzene	11.68	146	1371510	11.121	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.47	75	36629	3.231	ug/L	92
70) 1,2,3-Trichlorobenzene	13.79	180	737865	9.627	ug/L	99

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



#3

Chloromethane

Concen: 3.615 ug/L

RT: 1.26 min Scan# 52

Delta R.T. 0.00 min

Lab File: VV014291.D

Acq: 14 Jan 2020 12:05

Instrument :

MSVOA_V

ClientSampled :

GASJ3

Tot Ion: 50 Resp: 274437

Ion Ratio Lower Upper

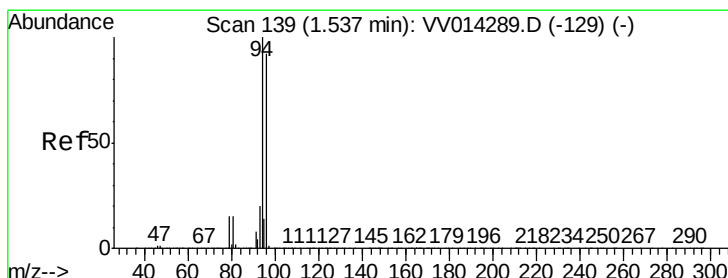
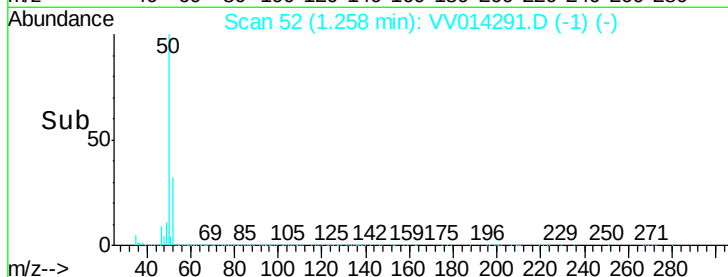
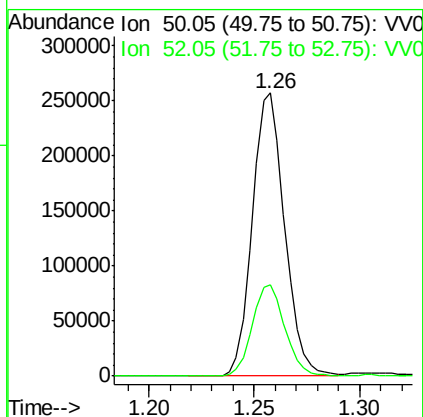
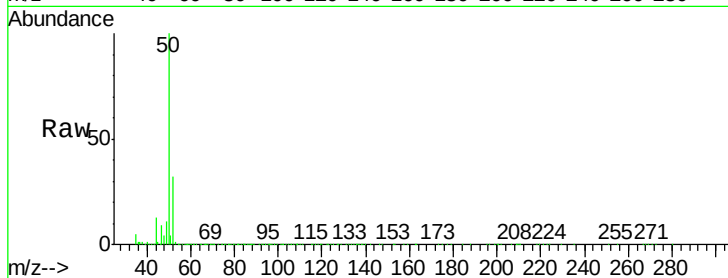
50 100

52 32.5 22.3 41.3

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#6

Bromomethane

Concen: 3.644 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV014291.D

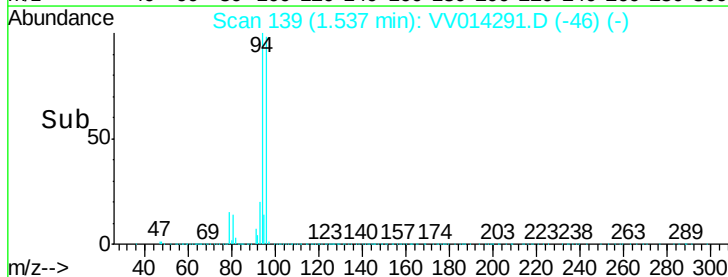
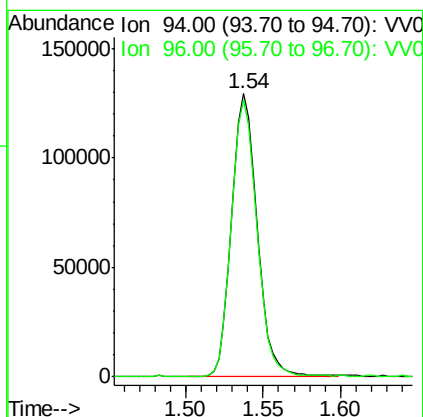
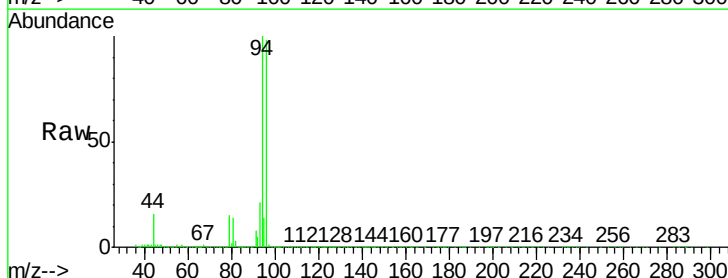
Acq: 14 Jan 2020 12:05

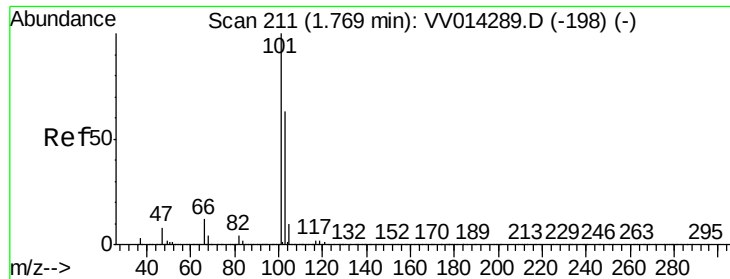
Tgt Ion: 94 Resp: 146594

Ion Ratio Lower Upper

94 100

96 98.0 66.9 124.3





#9

Trichlorofluoromethane

Concen: 7.378 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.00 min

Lab File: VV014291.D

Acq: 14 Jan 2020 12:05

Instrument :

MSVOA_V

ClientSampled :

GASJ3

Tot Ion:101 Resp: 617563

Ion Ratio Lower Upper

101 100

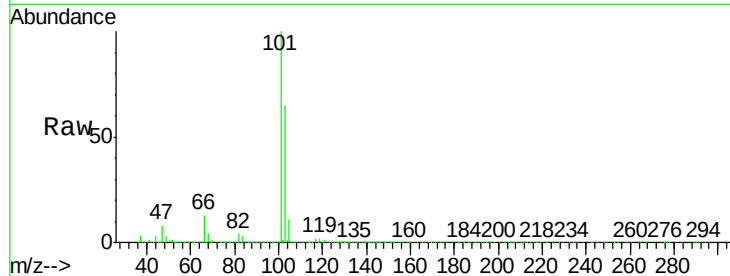
103 65.3 52.6 78.8

Manual Integrations

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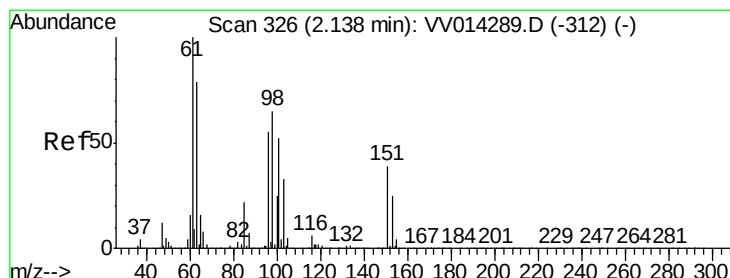
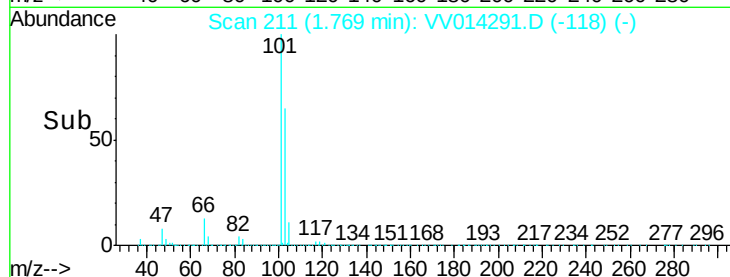
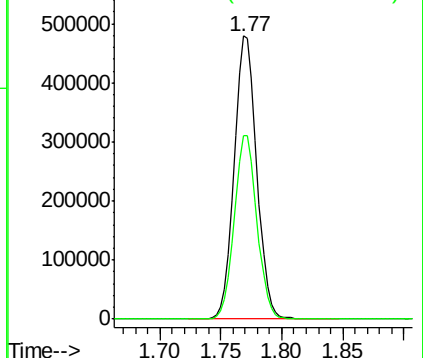
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1-Dichloroethene

Concen: 3.512 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV014291.D

Acq: 14 Jan 2020 12:05

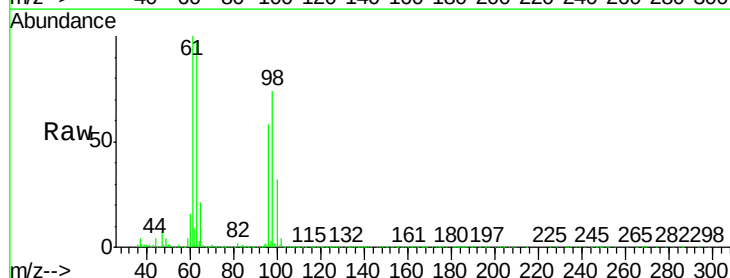
Tgt Ion: 96 Resp: 158961

Ion Ratio Lower Upper

96 100

61 173.5 121.5 225.7

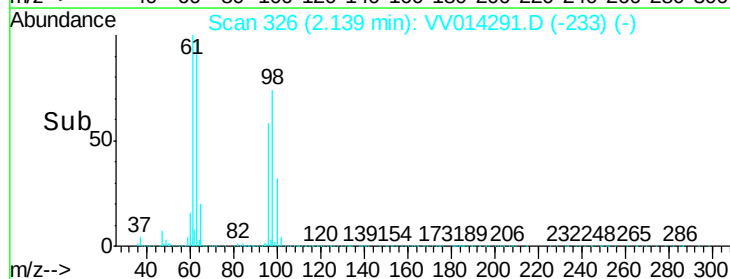
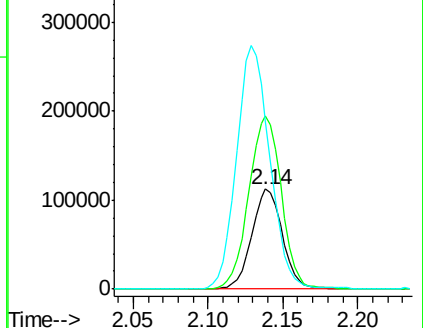
63 168.1 90.3 167.7#

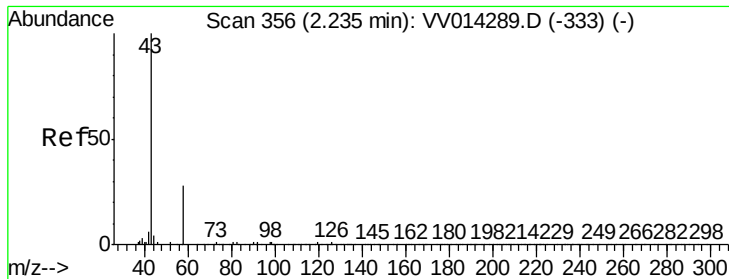


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





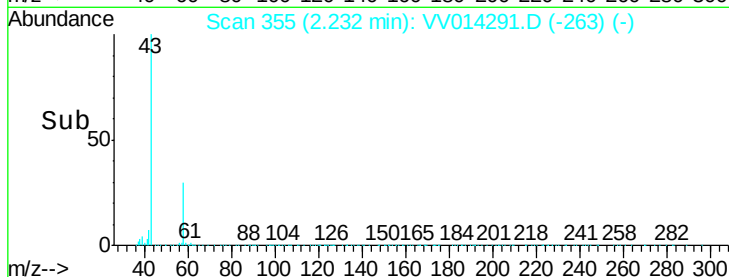
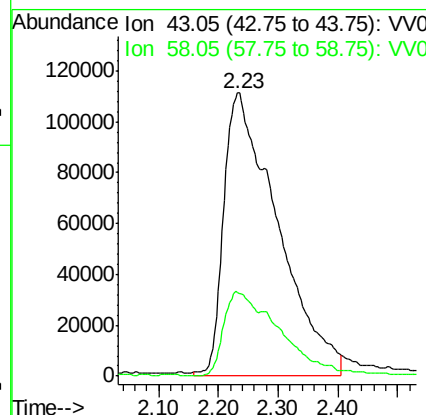
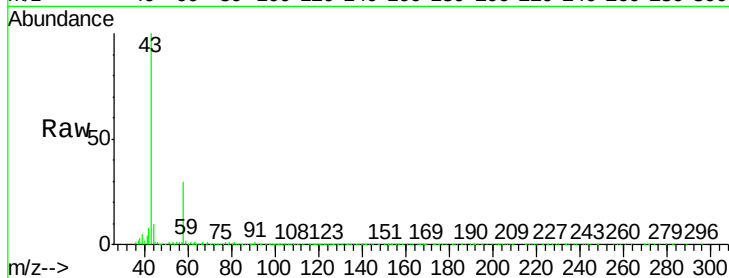
#13
Acetone
Concen: 59.515 ug/L m
RT: 2.23 min Scan# 355
Delta R.T. -0.00 min
Lab File: VV014291.D
Acq: 14 Jan 2020 12:05

Instrument :
MSVOA_V
ClientSampleId :
GASJ3

Tot Ion	Ratio	Lower	Upper
43	100		
58	16.6	0.0	66.0

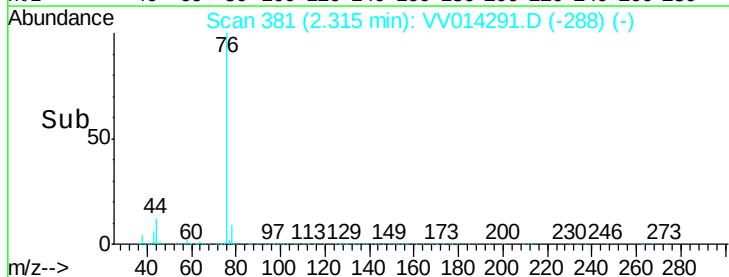
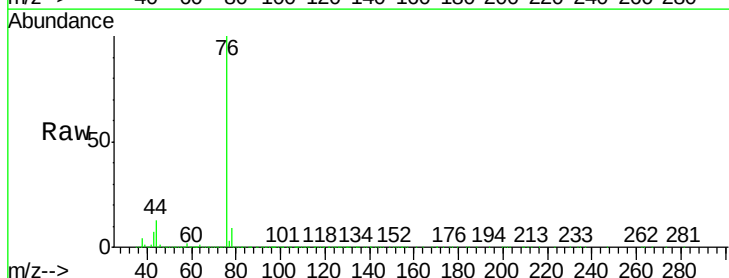
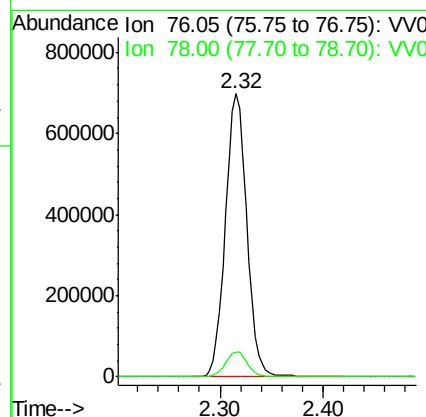
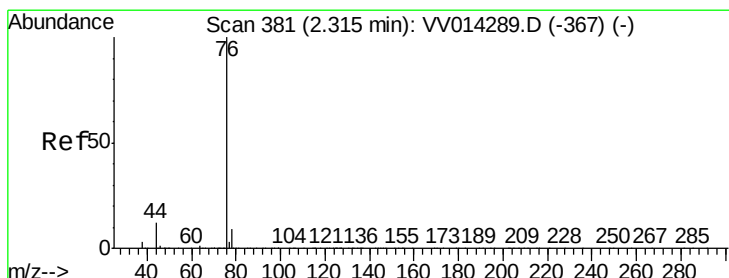
Manual Integrations
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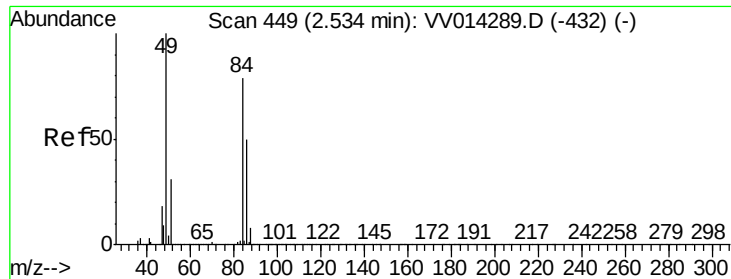
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#14
Carbon disulfide
Concen: 5.034 ug/L
RT: 2.32 min Scan# 381
Delta R.T. 0.00 min
Lab File: VV014291.D
Acq: 14 Jan 2020 12:05

Tgt Ion	Ratio	Lower	Upper
76	100		
78	8.8	7.5	11.3





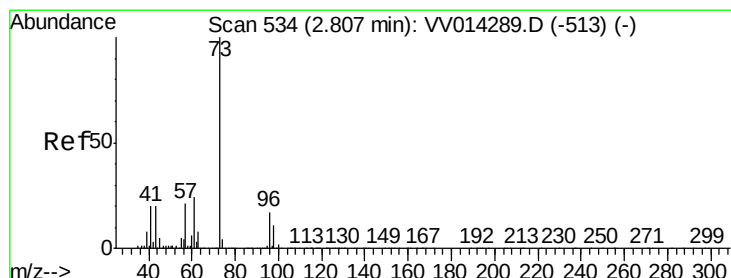
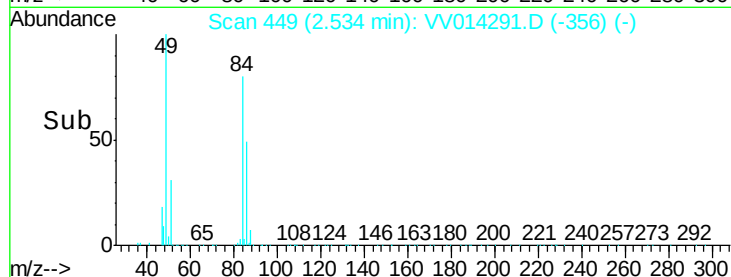
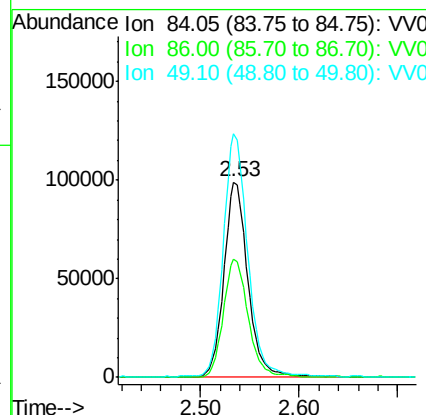
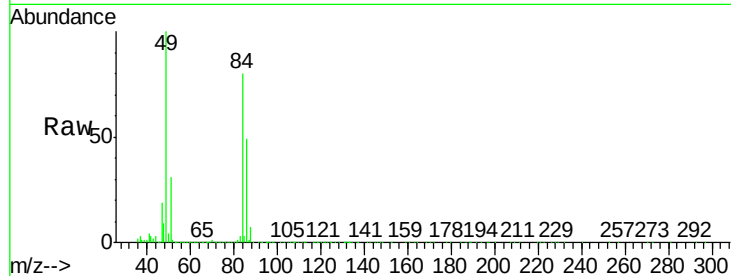
#16
Methylene chloride
Concen: 2.304 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV014291.D
Acq: 14 Jan 2020 12:05

Instrument :
MSVOA_V
ClientSampled :
GASJ3

Tot Ion	Ratio	Lower	Upper
84	100		
86	60.8	43.1	80.1
49	124.9	82.1	152.5

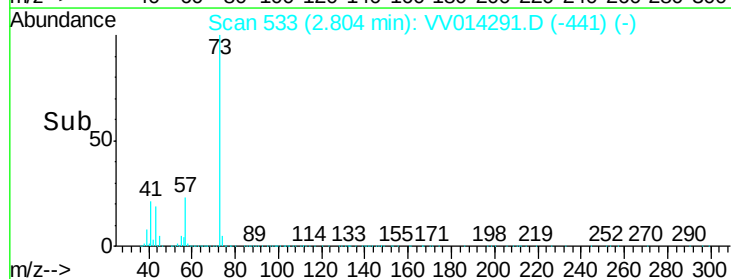
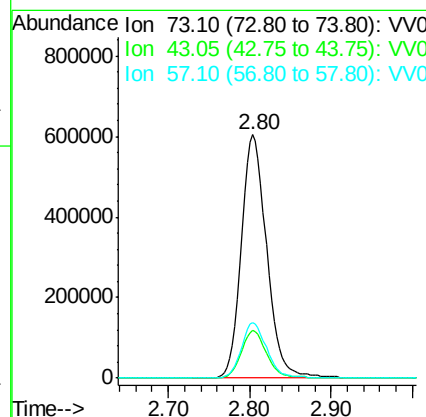
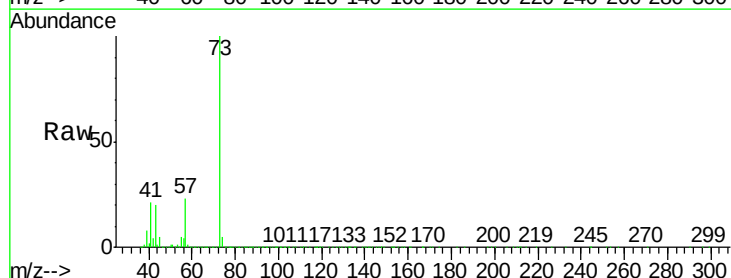
Manual Integrations
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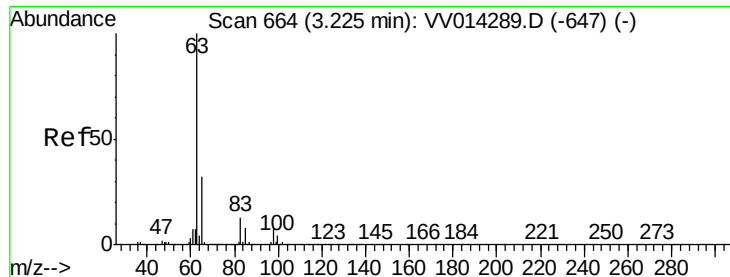
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#17
Methyl tert-butyl Ether
Concen: 7.793 ug/L
RT: 2.80 min Scan# 533
Delta R.T. -0.00 min
Lab File: VV014291.D
Acq: 14 Jan 2020 12:05

Tgt Ion	Ratio	Lower	Upper
73	100		
43	19.2	14.7	22.1
57	22.7	17.9	26.9





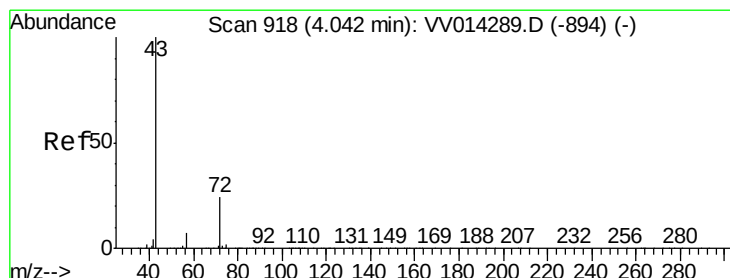
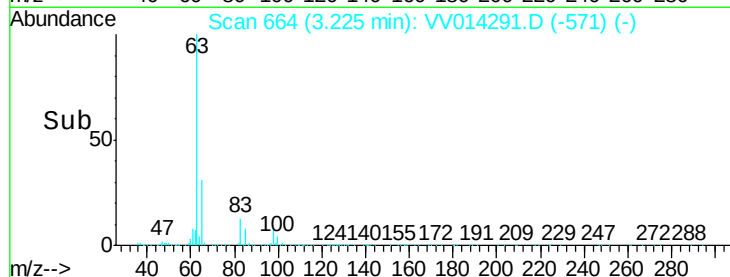
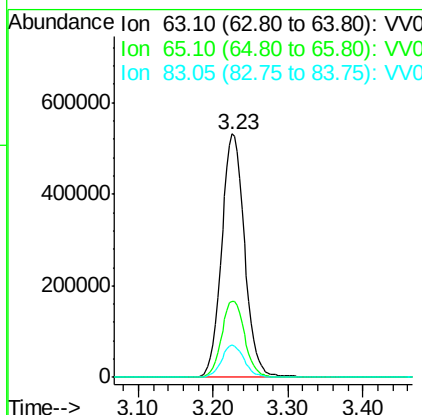
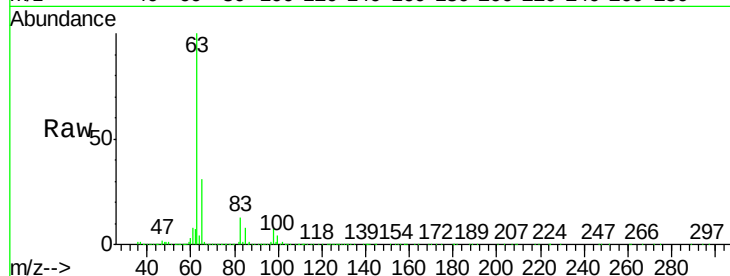
#19
 1,1-Dichloroethane
 Concen: 8.447 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. 0.00 min
 Lab File: VV014291.D
 Acq: 14 Jan 2020 12:05

Instrument :
 MSVOA_V
 ClientSampleId :
 GASJ3

Tot Ion:	63	Resp:	1126411
Ion	Ratio	Lower	Upper
63	100		
65	31.5	22.7	42.3
83	13.1	10.0	18.6

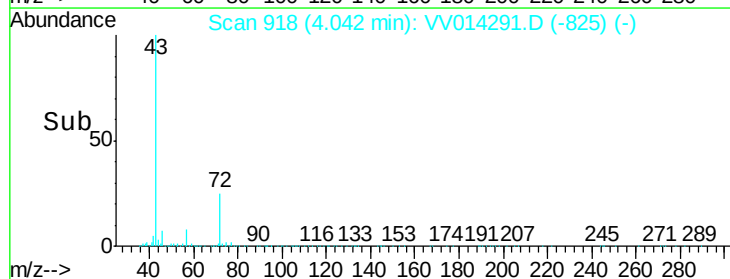
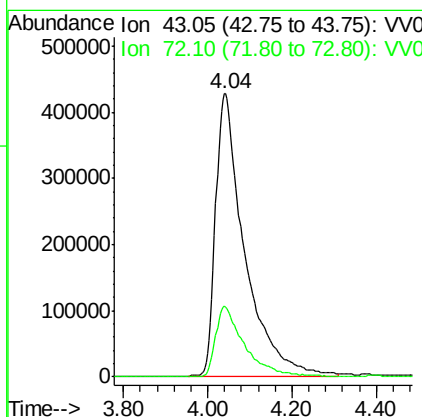
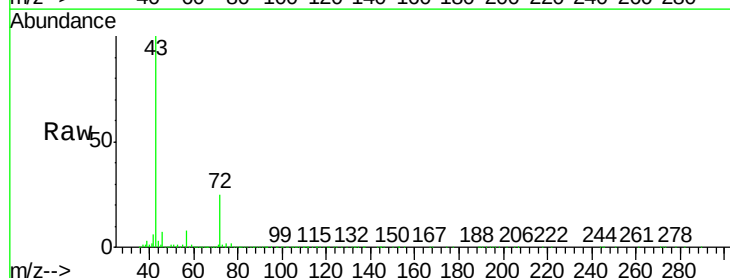
Manual Integrations
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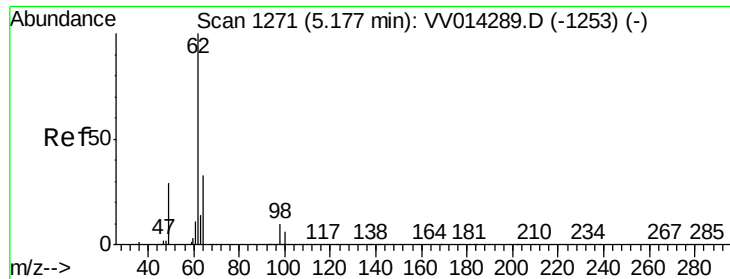
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#21
 2-Butanone
 Concen: 115.851 ug/L
 RT: 4.04 min Scan# 918
 Delta R.T. 0.00 min
 Lab File: VV014291.D
 Acq: 14 Jan 2020 12:05

Tgt Ion:	43	Resp:	2037702
Ion	Ratio	Lower	Upper
43	100		
72	24.6	12.4	37.2





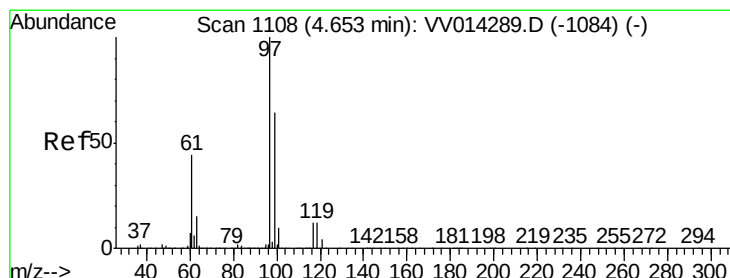
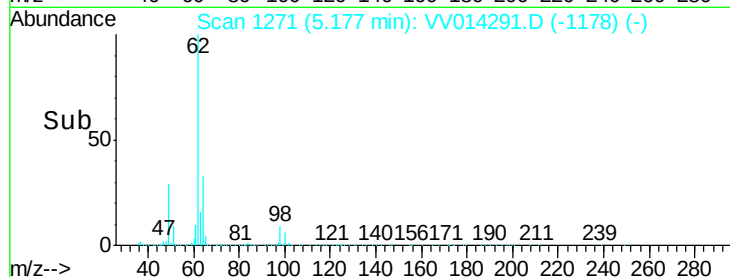
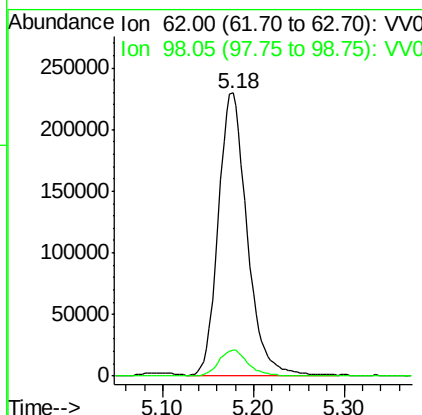
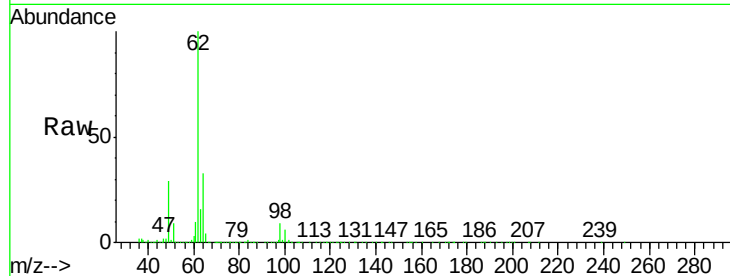
#27
 1,2-Dichloroethane
 Concen: 6.541 ug/L
 RT: 5.18 min Scan# 1271
 Delta R.T. 0.00 min
 Lab File: VV014291.D
 Acq: 14 Jan 2020 12:05

Instrument :
 MSVOA_V
 ClientSampled :
 GASJ3

Tot Ion	Ratio	Resp Lower	Upper
62	100		
98	9.1	9.2	13.8#

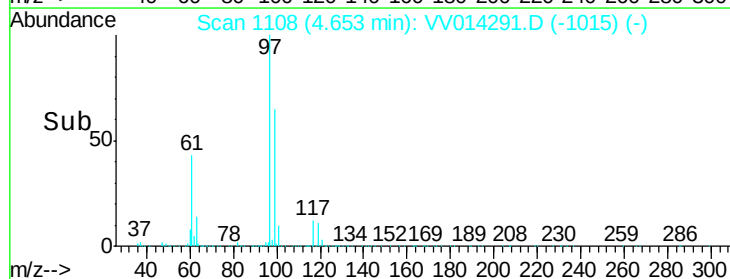
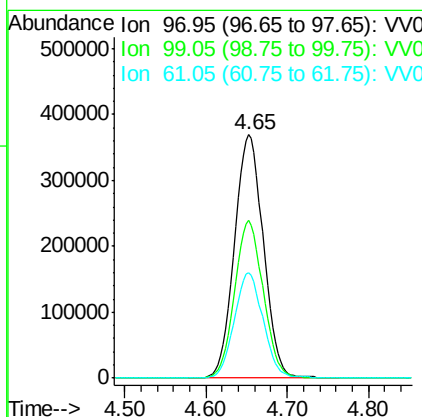
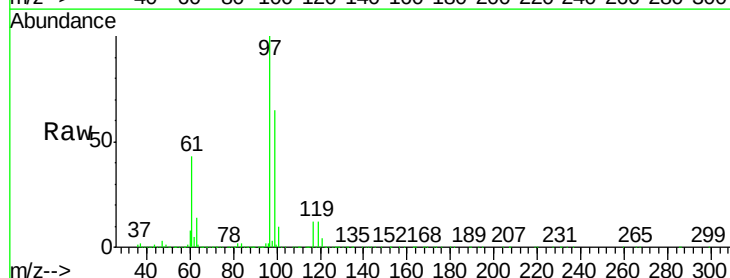
Manual Integrations
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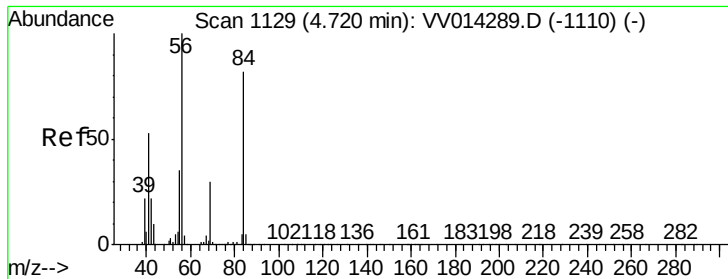
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#29
 1,1,1-Trichloroethane
 Concen: 8.190 ug/L
 RT: 4.65 min Scan# 1108
 Delta R.T. 0.00 min
 Lab File: VV014291.D
 Acq: 14 Jan 2020 12:05

Tgt Ion	Ratio	Resp Lower	Upper
97	100		
99	64.3	51.1	76.7
61	43.1	33.9	50.9





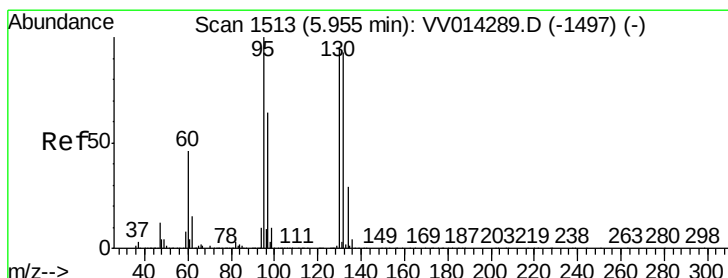
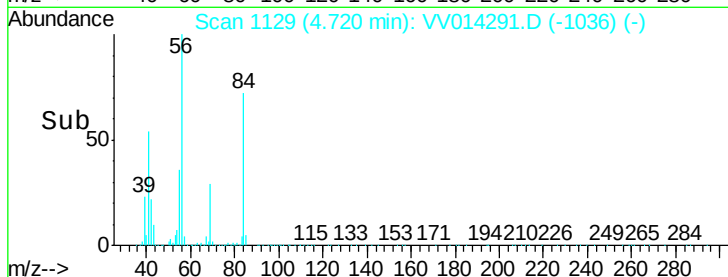
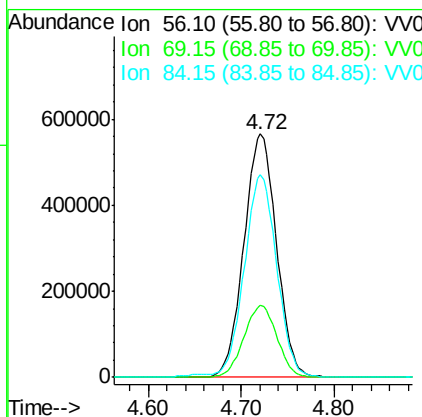
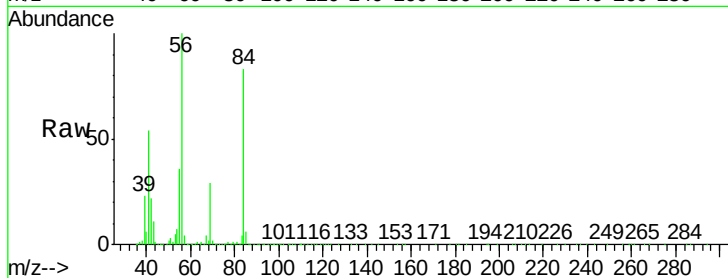
#30
Cyclohexane
Concen: 11.260 ug/L
RT: 4.72 min Scan# 1129
Delta R.T. 0.00 min
Lab File: VV014291.D
Acq: 14 Jan 2020 12:05

Instrument :
MSVOA_V
ClientSampleId :
GASJ3

Tot Ion: 56 Resp: 1377733
Ion Ratio Lower Upper
56 100
69 30.2 23.9 35.9
84 82.8 68.9 103.3

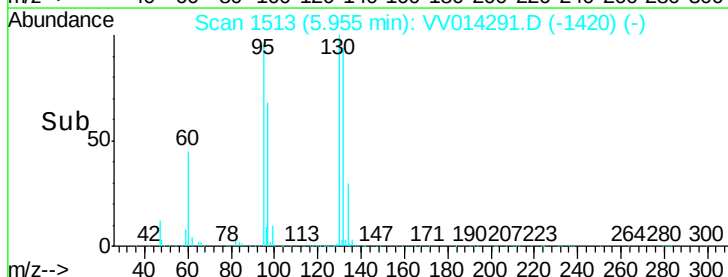
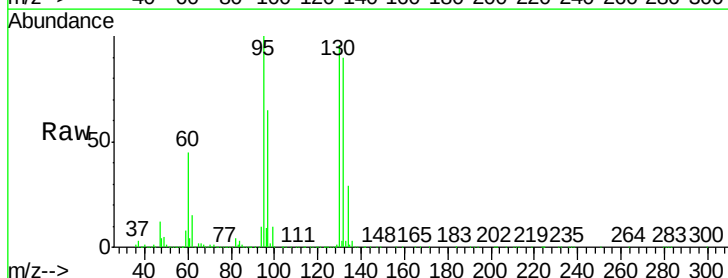
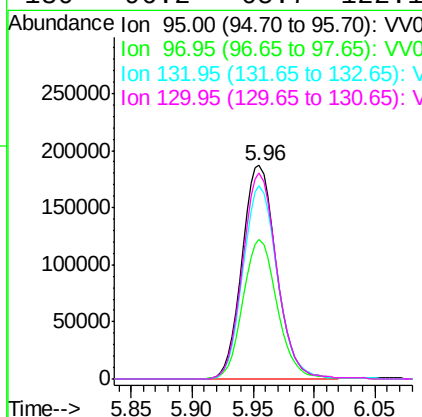
Manual Integrations
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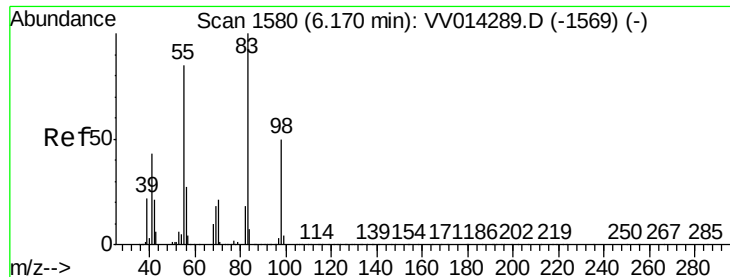
MMDadoda
1/15/2020 12:28:30 PM



#34
Trichloroethene
Concen: 4.910 ug/L
RT: 5.96 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VV014291.D
Acq: 14 Jan 2020 12:05

Tgt Ion: 95 Resp: 361716
Ion Ratio Lower Upper
95 100
97 65.1 43.8 81.3
132 90.5 63.4 117.8
130 96.2 65.7 122.1





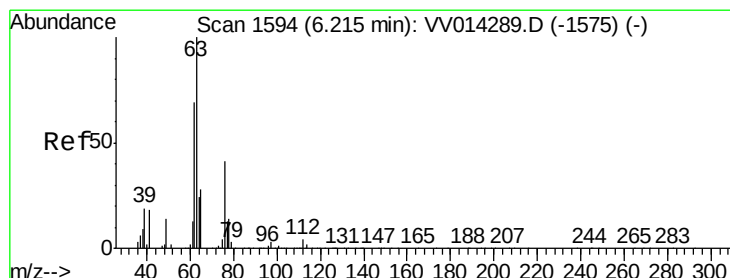
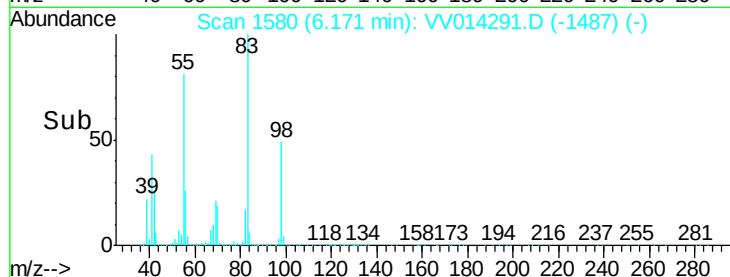
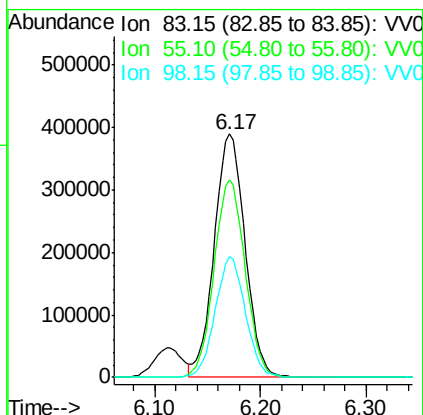
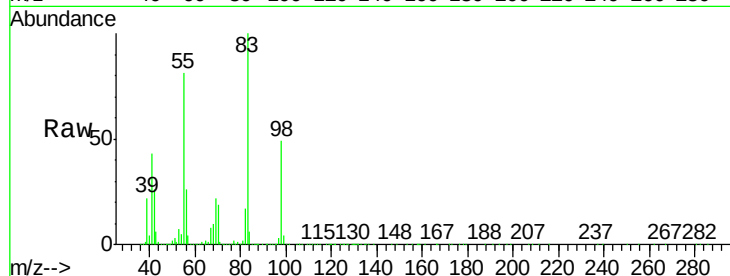
#35
Methvlcvclohexane
Concen: 6.533 ug/L
RT: 6.17 min Scan# 1580
Delta R.T. 0.00 min
Lab File: VV014291.D
Acq: 14 Jan 2020 12:05

Instrument :
MSVOA_V
ClientSampleId :
GASJ3

Tot Ion	Ratio	Lower	Upper
83	100		
55	82.0	61.7	92.5
98	48.2	38.1	57.1

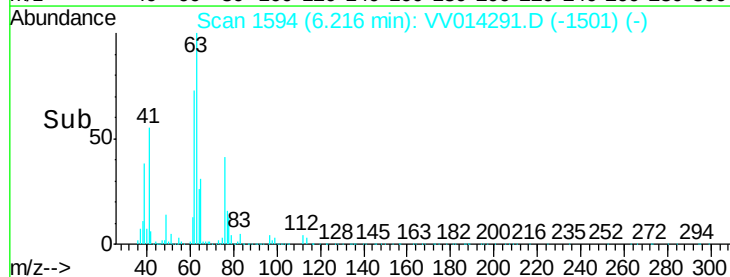
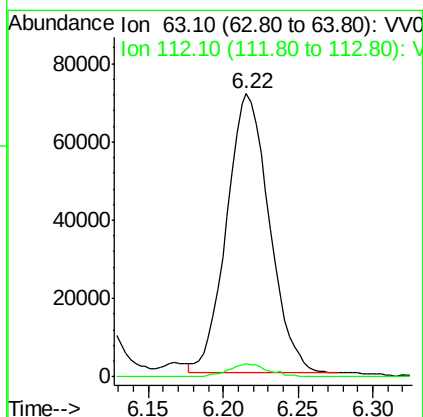
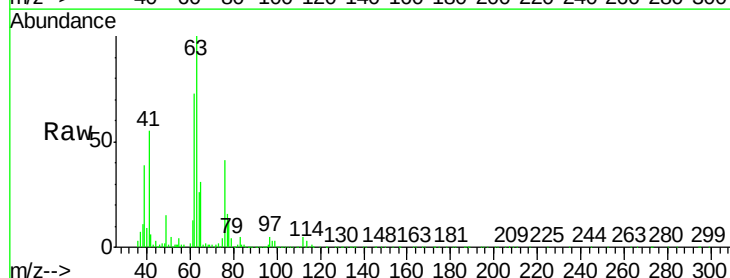
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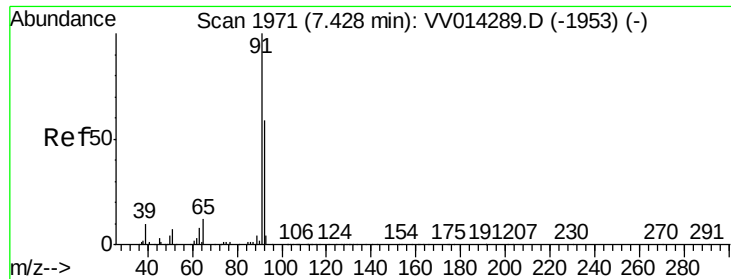
MMDadoda
1/15/2020 12:28:30 PM



#37
1,2-Dichloropropane
Concen: 1.959 ug/L
RT: 6.22 min Scan# 1594
Delta R.T. 0.00 min
Lab File: VV014291.D
Acq: 14 Jan 2020 12:05

Tgt Ion	Ratio	Lower	Upper
63	100		
112	4.4	3.7	5.5





#42

Toluene

Concen: 7.997 ug/L

RT: 7.42 min Scan# 1970

Delta R.T. -0.00 min

Lab File: VV014291.D

Acq: 14 Jan 2020 12:05

Instrument :

MSVOA_V

ClientSampled :

GASJ3

Tot Ion: 91 Resp: 2420120

Ion Ratio Lower Upper

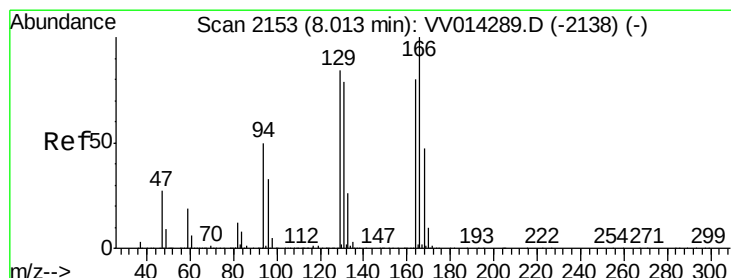
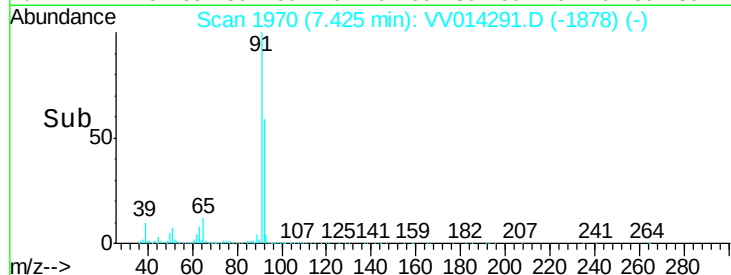
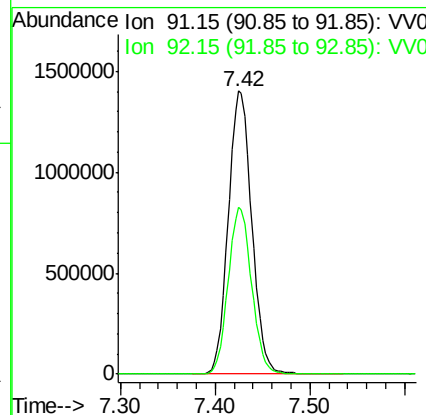
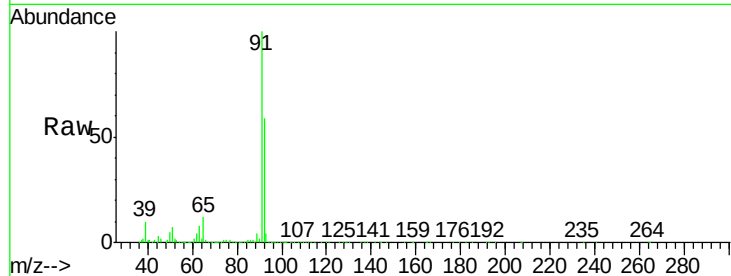
91 100

92 58.8 41.2 76.6

Manual Integrations
APPROVED

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#47

Tetrachloroethene

Concen: 8.172 ug/L

RT: 8.01 min Scan# 2153

Delta R.T. 0.00 min

Lab File: VV014291.D

Acq: 14 Jan 2020 12:05

Tgt Ion: 164 Resp: 411303

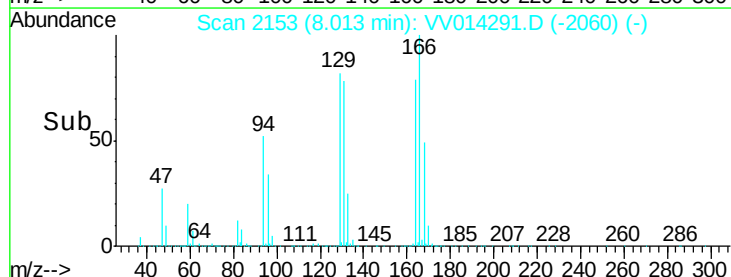
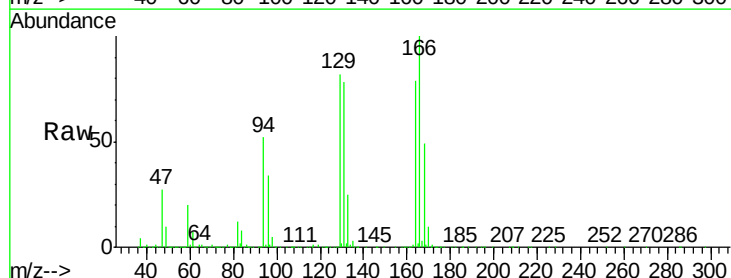
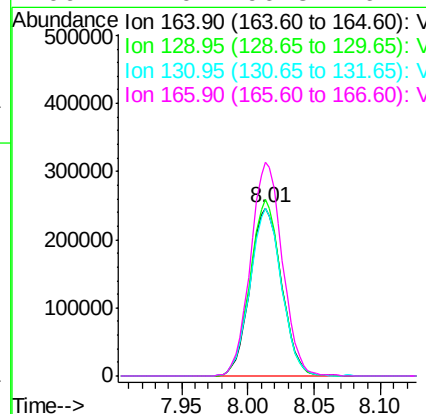
Ion Ratio Lower Upper

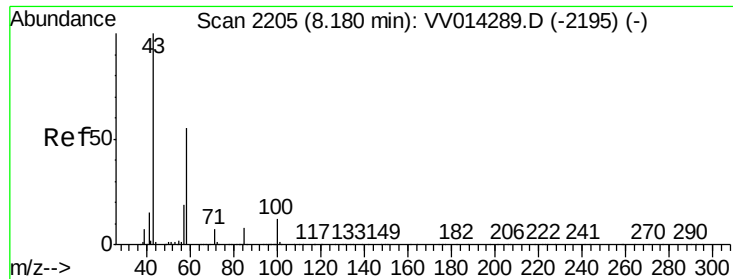
164 100

129 104.8 71.7 133.3

131 99.4 70.4 130.8

166 127.0 90.3 167.7





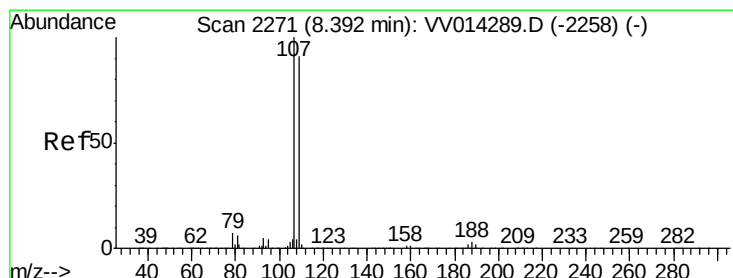
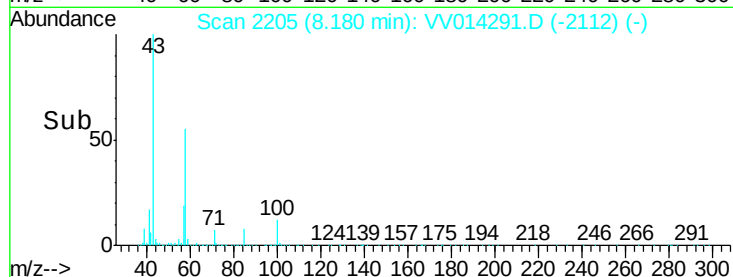
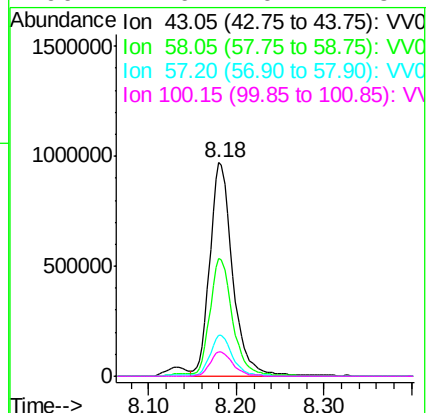
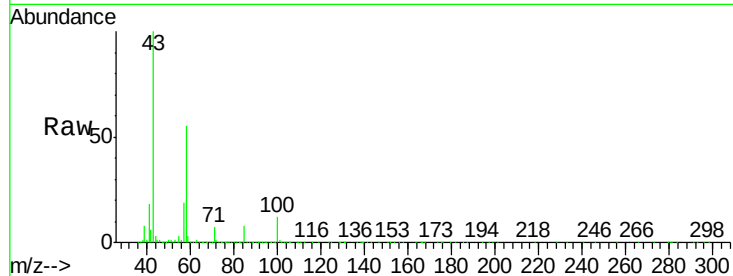
#48
2-Hexanone
Concen: 55.473 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. 0.00 min
Lab File: VV014291.D
Acq: 14 Jan 2020 12:05

Instrument :
MSVOA_V
ClientSampled :
GASJ3

Tot Ion	Ratio	Lower	Upper
43	100		
58	54.6	45.4	68.0
57	18.8	15.8	23.8
100	11.6	10.2	15.4

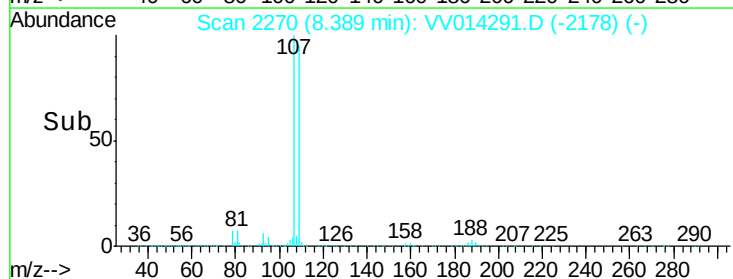
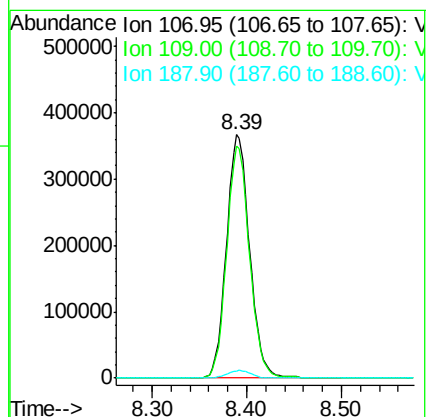
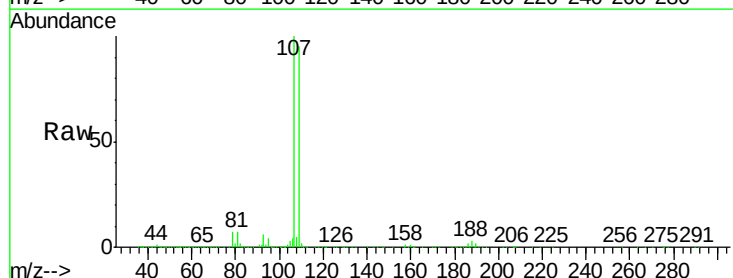
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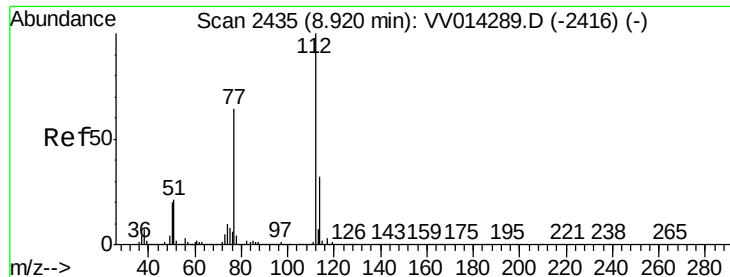
MMDadoda
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#50
1,2-Dibromoethane
Concen: 13.909 ug/L
RT: 8.39 min Scan# 2270
Delta R.T. -0.00 min
Lab File: VV014291.D
Acq: 14 Jan 2020 12:05

Tgt Ion	Ratio	Lower	Upper
107	100		
109	95.2	63.0	117.0
188	3.0	3.0	4.4





#51

Chlorobenzene

Concen: 9.867 ug/L

RT: 8.92 min Scan# 2435

Delta R.T. 0.00 min

Lab File: VV014291.D

Acq: 14 Jan 2020 12:05

Instrument :

MSVOA_V

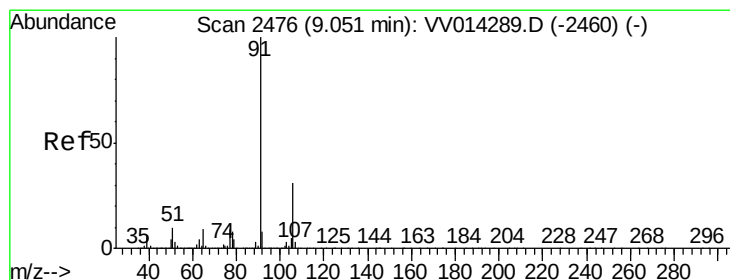
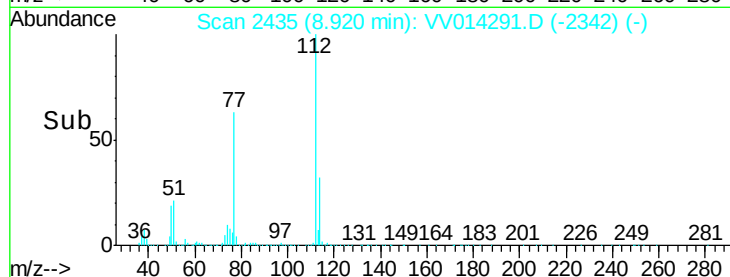
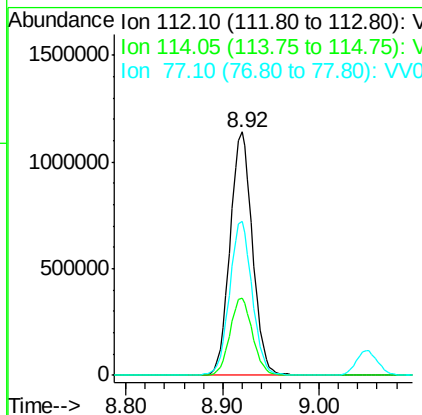
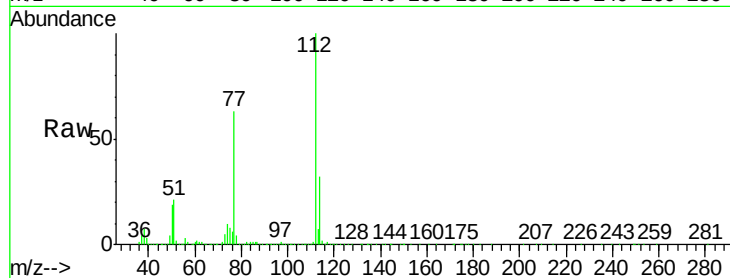
ClientSampled :

GASJ3

Tot Ion:	112	Resp:	1836424
Ion	Ratio	Lower	Upper
112	100		
114	31.9	22.5	41.7
77	63.1	49.3	73.9

Manual Integrations
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#52

Ethylbenzene

Concen: 6.046 ug/L

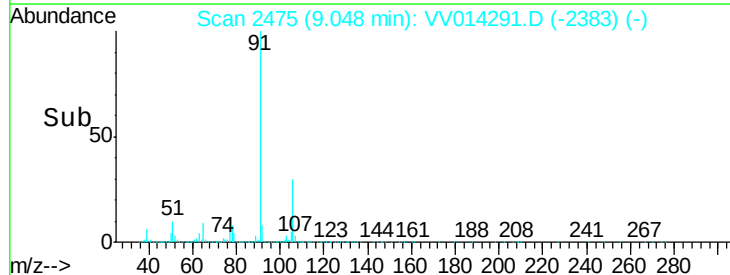
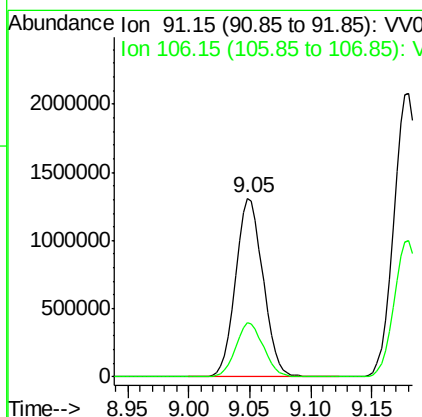
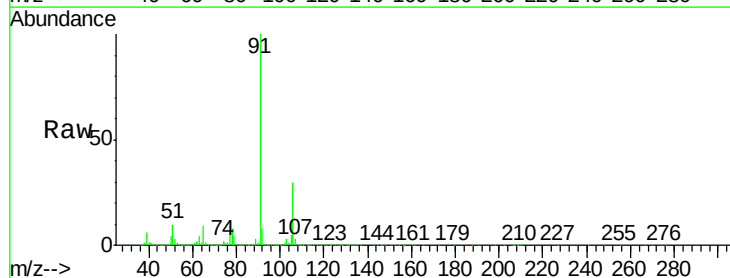
RT: 9.05 min Scan# 2475

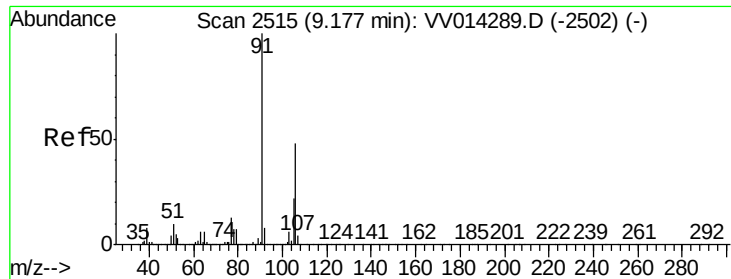
Delta R.T. -0.00 min

Lab File: VV014291.D

Acq: 14 Jan 2020 12:05

Tgt Ion:	91	Resp:	2046753
Ion	Ratio	Lower	Upper
91	100		
106	30.1	21.6	40.0





#53

m,p-xylene

Concen: 12.311 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV014291.D

Acq: 14 Jan 2020 12:05

Instrument :

MSVOA_V

ClientSampled :

GASJ3

Tot Ion:106 Resp: 1537652

Ion Ratio Lower Upper

106 100

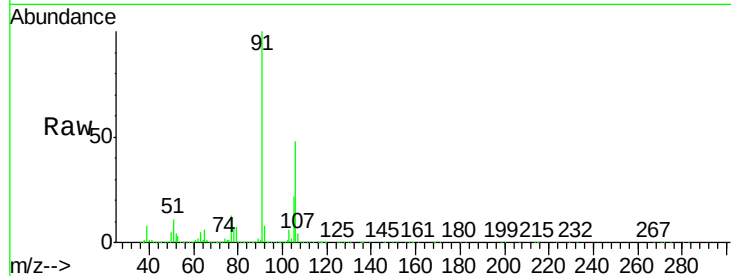
91 207.6 146.8 272.6

Manual Integrations

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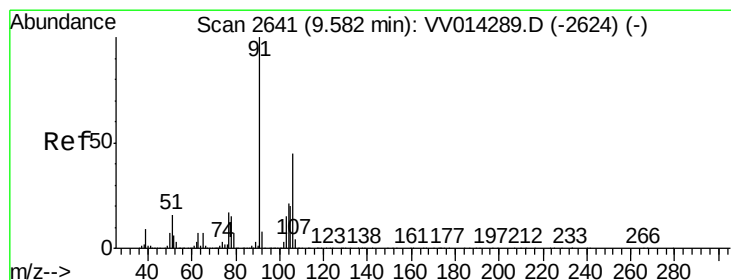
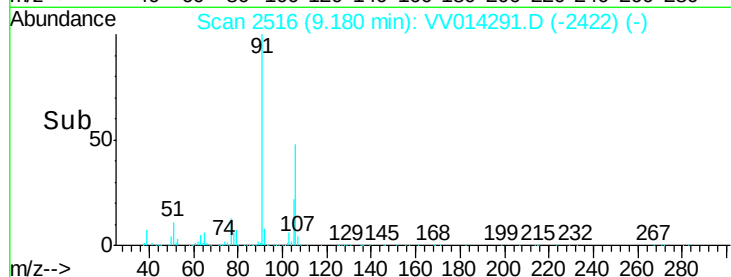
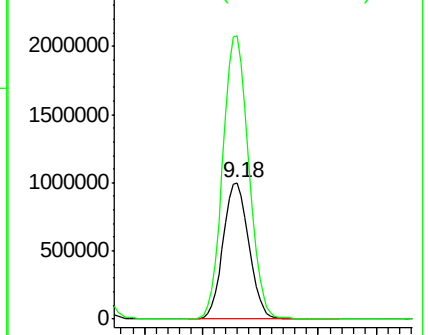
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Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#54

o-xylene

Concen: 5.063 ug/L

RT: 9.58 min Scan# 2641

Delta R.T. 0.00 min

Lab File: VV014291.D

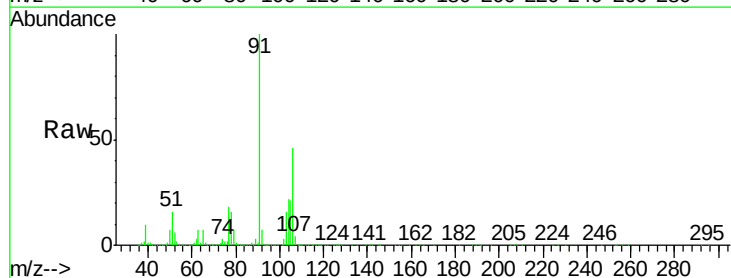
Acq: 14 Jan 2020 12:05

Tgt Ion:106 Resp: 621817

Ion Ratio Lower Upper

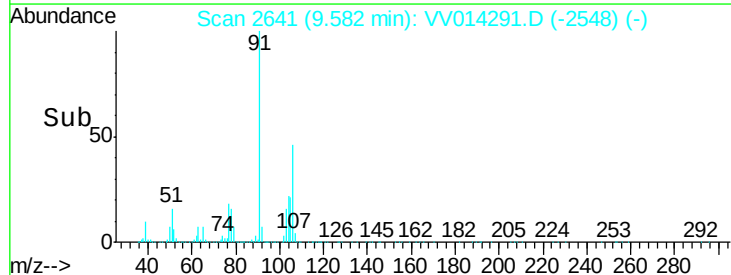
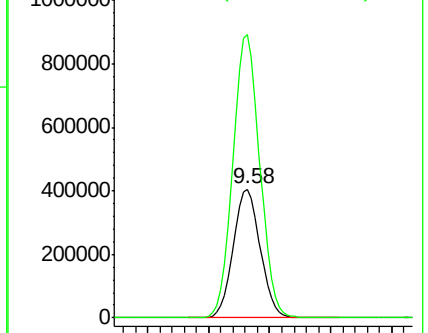
106 100

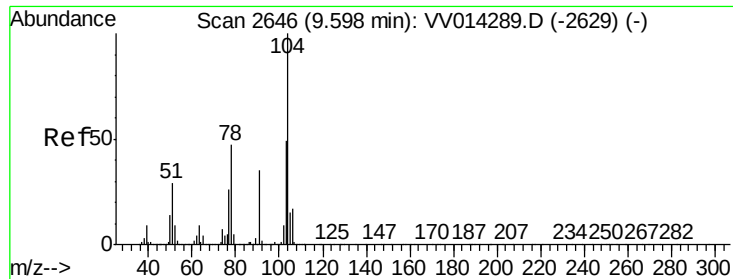
91 219.6 150.9 280.3



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0





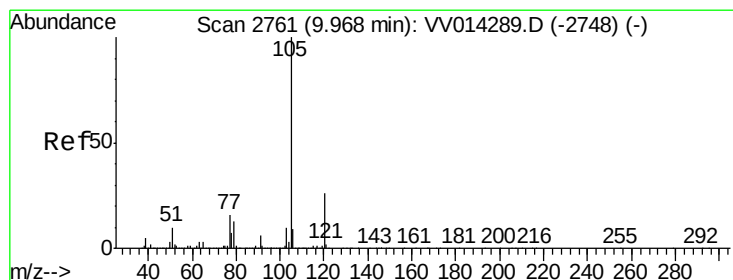
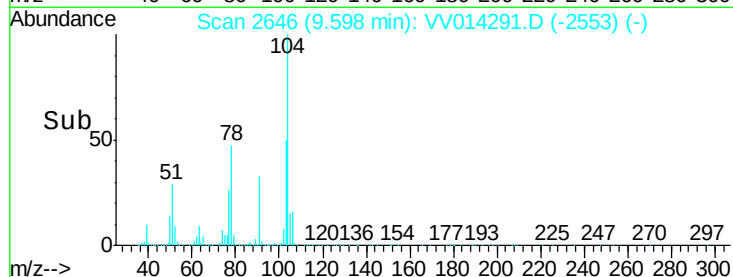
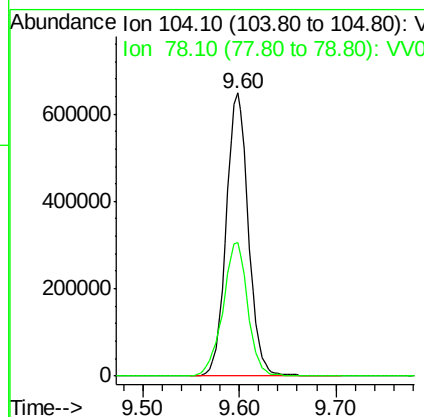
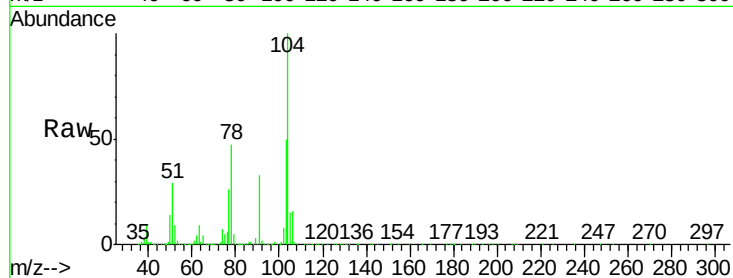
#55
Stvrene
Concen: 4.959 ug/L
RT: 9.60 min Scan# 2646
Delta R.T. 0.00 min
Lab File: VV014291.D
Acq: 14 Jan 2020 12:05

Instrument :
MSVOA_V
ClientSampleId :
GASJ3

Tot Ion:104 Resp: 1031731
Ion Ratio Lower Upper
104 100
78 47.0 31.7 58.9

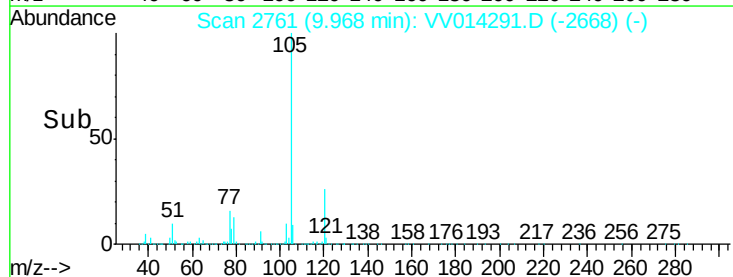
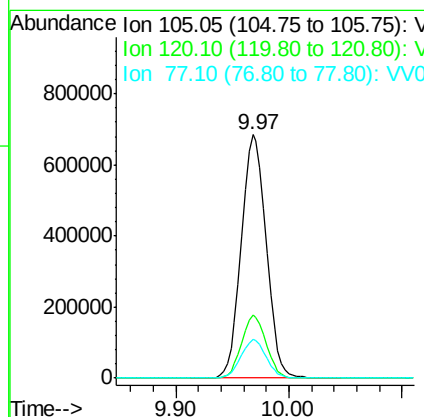
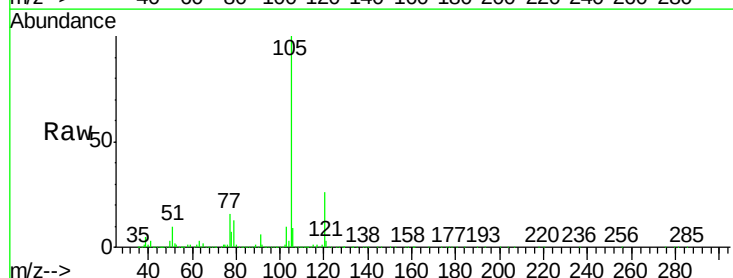
Manual Integrations
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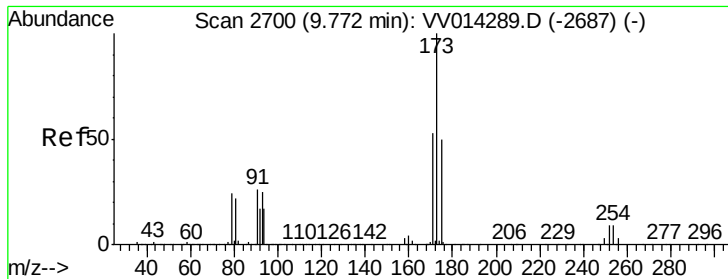
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#56
Isopropylbenzene
Concen: 3.292 ug/L
RT: 9.97 min Scan# 2761
Delta R.T. 0.00 min
Lab File: VV014291.D
Acq: 14 Jan 2020 12:05

Tgt Ion:105 Resp: 1054759
Ion Ratio Lower Upper
105 100
120 25.6 21.0 31.4
77 15.7 12.5 18.7





#61

Bromoform

Concen: 4.504 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. 0.00 min

Lab File: VV014291.D

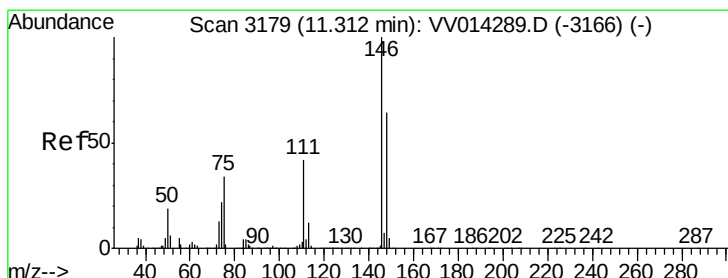
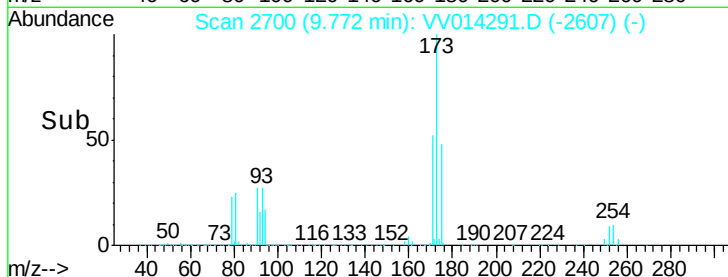
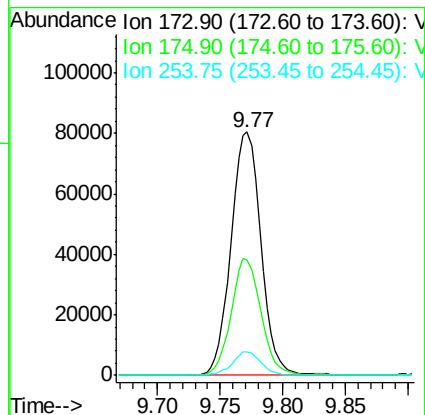
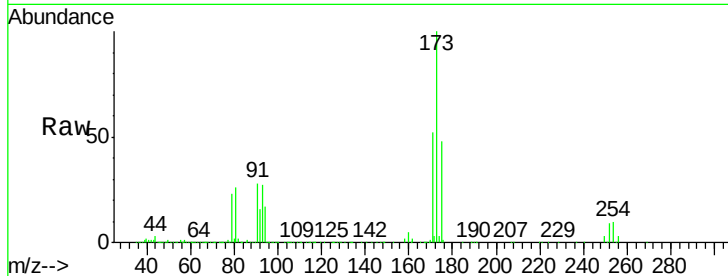
Acq: 14 Jan 2020 12:05

Instrument :
MSVOA_V
ClientSampled :
GASJ3

Tot Ion:	173	Resp:	133361
Ion Ratio	Lower	Upper	
173	100		
175	47.7	37.9	56.9
254	9.3	7.6	11.4

Manual Integrations
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#63

1,4-Dichlorobenzene

Concen: 4.094 ug/L

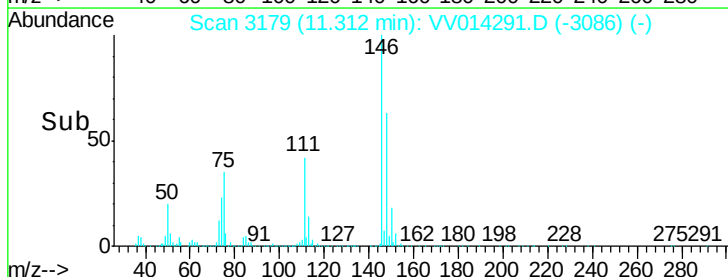
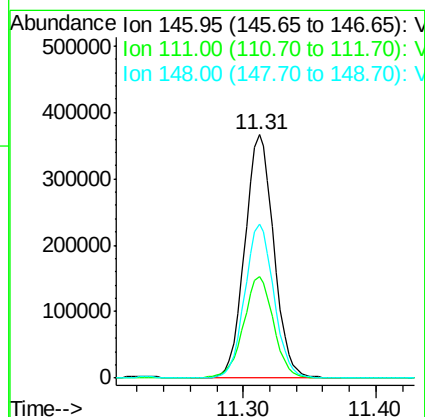
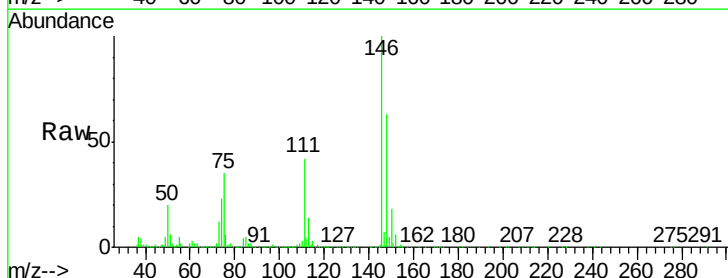
RT: 11.31 min Scan# 3179

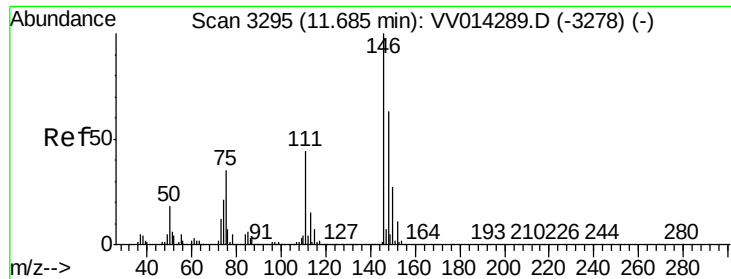
Delta R.T. 0.00 min

Lab File: VV014291.D

Acq: 14 Jan 2020 12:05

Tgt Ion:	146	Resp:	555964
Ion Ratio	Lower	Upper	
146	100		
111	41.9	28.8	53.4
148	63.3	44.5	82.7





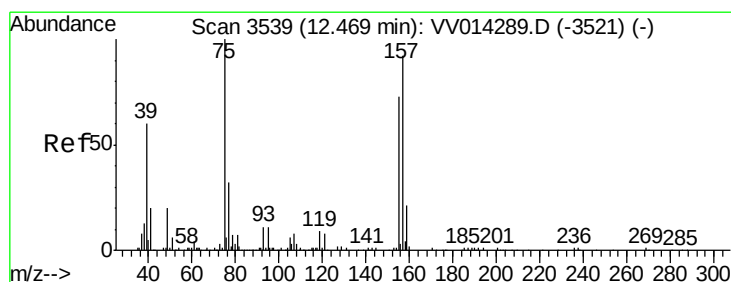
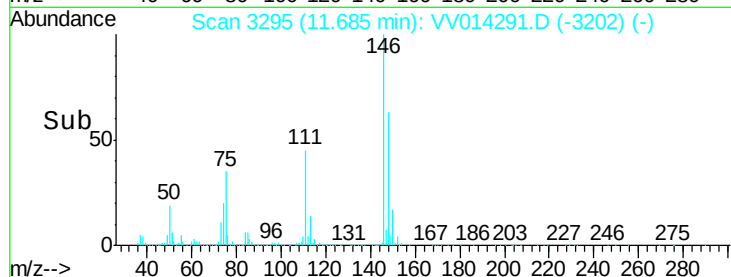
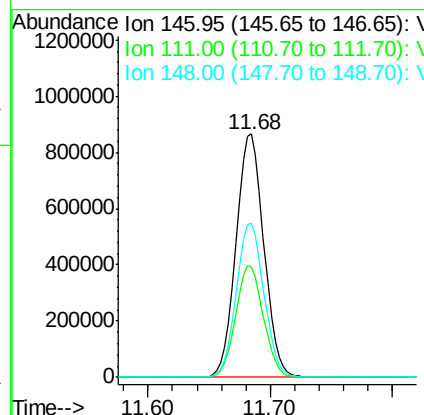
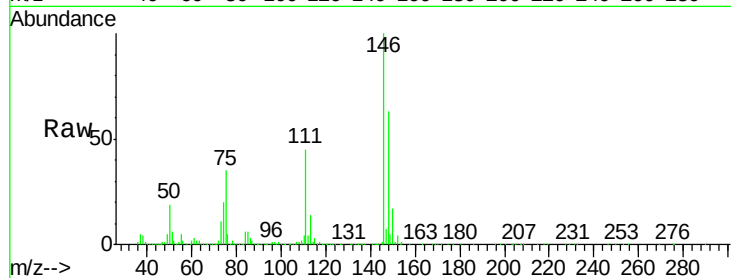
#65
1,2-Dichlorobenzene
Concen: 11.121 ug/L
RT: 11.68 min Scan# 3295
Delta R.T. 0.00 min
Lab File: VV014291.D
Acq: 14 Jan 2020 12:05

Instrument :
MSVOA_V
ClientSampled :
GASJ3

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.4	36.4	54.6
148	63.4	51.3	76.9

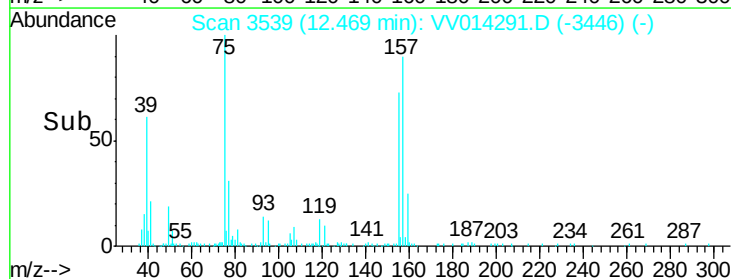
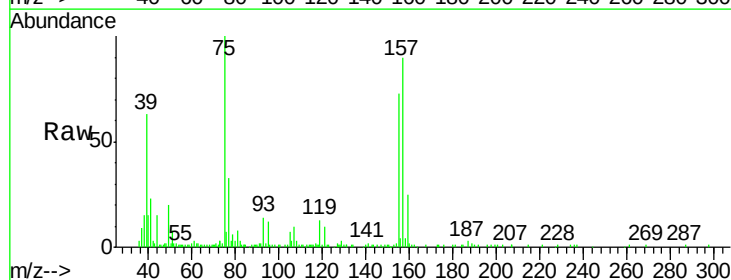
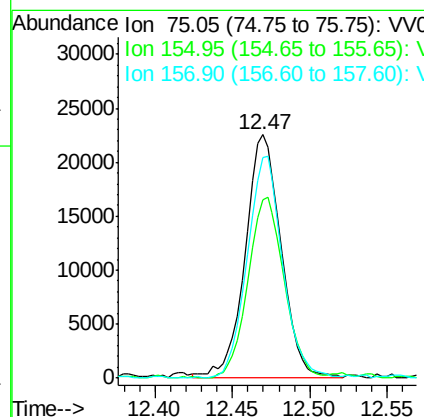
Manual Integrations
APPROVED

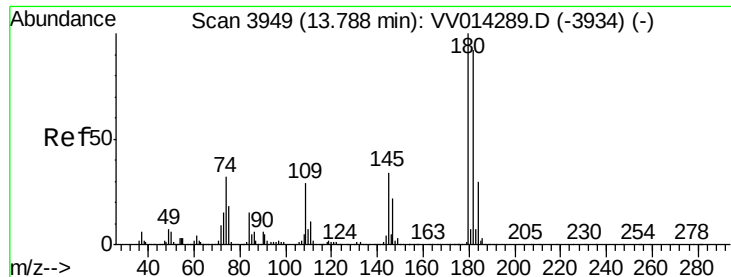
MMDadoda
1/15/2020 12:28:30 PM



#66
1,2-Dibromo-3-chloropropane
Concen: 3.231 ug/L
RT: 12.47 min Scan# 3539
Delta R.T. 0.00 min
Lab File: VV014291.D
Acq: 14 Jan 2020 12:05

Tgt Ion	Ratio	Lower	Upper
75	100		
155	73.4	56.9	85.3
157	90.4	82.0	123.0





#70
 1,2,3-Trichlorobenzene
 Concen: 9.627 ug/L
 RT: 13.79 min Scan# 3949
 Delta R.T. 0.00 min
 Lab File: VV014291.D
 Acq: 14 Jan 2020 12:05

Instrument :
 MSVOA_V
 ClientSampleId :
 GASJ3

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.7	74.8	112.2
145	35.4	29.0	43.6

Manual Integrations
 APPROVED

MMDadoda
 1/15/2020 12:28:30 PM

