

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV110819\
 Data File : VV013531.D
 Acq On : 08 Nov 2019 09:57
 Operator : SY/MD
 Sample : VSTD0.535
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD0.535

Manual Integrations
 APPROVED

MMDadoda
 11/11/2019 3:33:48 PM

Quant Time: Nov 08 22:00:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR110819WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Nov 08 21:45:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	486681	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	474538	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	221256	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	9756	0.44	ug/L	0.00
7) Chloroethane-d5	1.58	69	9247	0.48	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.13	63	19679	0.48	ug/L	0.00
20) 2-Butanone-d5	3.98	46	28205m	3.79	ug/L	0.03
24) Chloroform-d	4.40	84	23764	0.42	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	13570	0.47	ug/L	0.00
32) Benzene-d6	5.09	84	42423	0.41	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.12	67	15119	0.44	ug/L	0.00
41) Toluene-d8	7.36	98	31762	0.36	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.67	79	5471	0.40	ug/L	0.00
46) 2-Hexanone-d5	8.14	63	14591	2.90	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.26	84	11238	0.42	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.67	152	17772	0.45	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.14	85	20482	0.431	ug/L	99
3) Chloromethane	1.25	50	18226	0.444	ug/L	95
5) Vinyl chloride	1.32	62	16444	0.418	ug/L	96
6) Bromomethane	1.53	94	8600	0.417	ug/L	90
8) Chloroethane	1.60	64	9397	0.430	ug/L	98
9) Trichlorofluoromethane	1.77	101	22580	0.432	ug/L	93
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	13315	0.453	ug/L	93
12) 1,1-Dichloroethene	2.14	96	12240	0.451	ug/L	90
13) Acetone	2.22	43	17241m	4.004	ug/L	
14) Carbon disulfide	2.31	76	35895	0.430	ug/L	99
15) Methyl Acetate	2.46	43	5383	0.416	ug/L	98
16) Methylene chloride	2.53	84	19109	0.496	ug/L	94
17) Methyl tert-butyl Ether	2.80	73	30726	0.410	ug/L	94
18) trans-1,2-Dichloroethene	2.79	96	14493	0.414	ug/L	94
19) 1,1-Dichloroethane	3.23	63	27394	0.414	ug/L	96
21) 2-Butanone	4.05	43	23384	2.857	ug/L	77
22) cis-1,2-Dichloroethene	3.96	96	14184	0.390	ug/L #	82
23) Bromochloromethane	4.30	128	6920	0.422	ug/L	94
25) Chloroform	4.42	83	35272	0.506	ug/L	92
27) 1,2-Dichloroethane	5.18	62	15806	0.406	ug/L	97
29) 1,1,1-Trichloroethane	4.65	97	23957	0.420	ug/L	98
30) Cyclohexane	4.72	56	20423	0.345	ug/L #	97
31) Carbon tetrachloride	4.87	117	20587	0.402	ug/L	95
33) Benzene	5.14	78	51033	0.357	ug/L	100
34) Trichloroethene	5.96	95	15625	0.406	ug/L	97
35) Methylcyclohexane	6.17	83	20776	0.348	ug/L	93
37) 1,2-Dichloropropane	6.22	63	13092	0.365	ug/L	98
38) Bromodichloromethane	6.55	83	18617	0.405	ug/L #	98
39) cis-1,3-Dichloropropene	7.07	75	16594	0.343	ug/L	95
40) 4-Methyl-2-pentanone	7.27	43	63625	3.141	ug/L	99

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Manual Integrations
 APPROVED

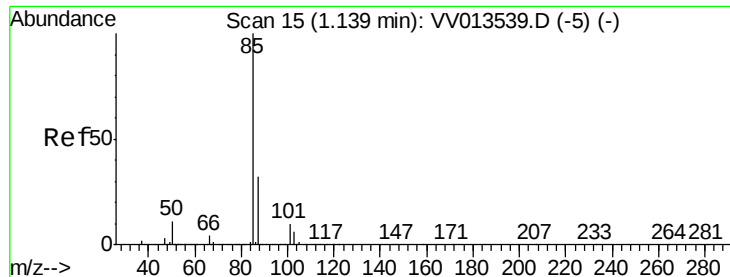
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 11/11/2019 3:33:48 PM

Quant Time: Nov 08 22:00:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR110819WMA.M
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 Response via : Initial Calibration

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

42) Toluene	7.43	91	50546	0.342	ug/L	97
44) trans-1,3-Dichloropropene	7.69	75	13342	0.345	ug/L	96
45) 1,1,2-Trichloroethane	7.88	97	9120	0.369	ug/L	93
47) Tetrachloroethene	8.02	164	14321	0.419	ug/L	98
48) 2-Hexanone	8.19	43	42426	2.996	ug/L	95
49) Dibromochloromethane	8.29	129	12070	0.395	ug/L	96
50) 1,2-Dibromoethane	8.39	107	7943	0.344	ug/L #	93
51) Chlorobenzene	8.92	112	39135	0.401	ug/L	98
52) Ethylbenzene	9.05	91	54449	0.344	ug/L	96
53) m,p-xylene	9.18	106	19494	0.328	ug/L	86
54) o-xylene	9.59	106	17767	0.316	ug/L	96
55) Styrene	9.60	104	28759	0.302	ug/L	95
56) Isopropylbenzene	9.97	105	47884	0.312	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.28	83	10362	0.396	ug/L #	95
59) 1,2,3-Trichloropropane	10.32	75	7240	0.346	ug/L #	83
61) Bromoform	9.78	173	6517	0.418	ug/L	93
62) 1,3-Dichlorobenzene	11.22	146	29047	0.410	ug/L	98
63) 1,4-Dichlorobenzene	11.32	146	28879	0.413	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	27066	0.424	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.47	75	1407	0.412	ug/L #	79
67) 1,3,5-Trichlorobenzene	12.69	180	23023	0.425	ug/L	97
68) 1,2,4-trichlorobenzene	13.31	180	17178	0.418	ug/L	98
69) Naphthalene	13.55	128	18865	0.340	ug/L	97
70) 1,2,3-Trichlorobenzene	13.79	180	15046	0.392	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 0.431 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV013531.D

Acq: 08 Nov 2019 09:57

Tot Ion: 85 Resp: 20482

Ion Ratio Lower Upper

85 100

87 32.2 26.0 39.0

Instrument :

MSVOA_V

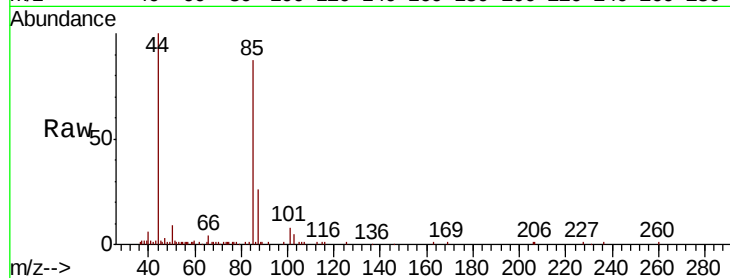
ClientSampleId :

VSTD0.535

Manual Integrations
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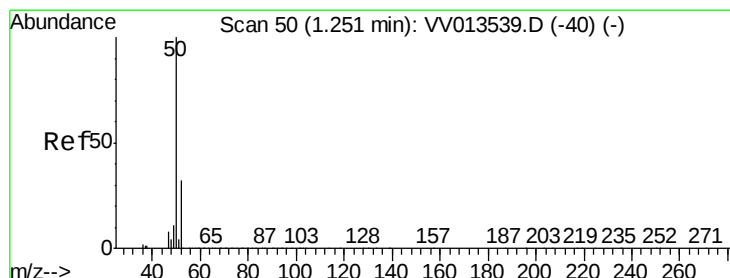
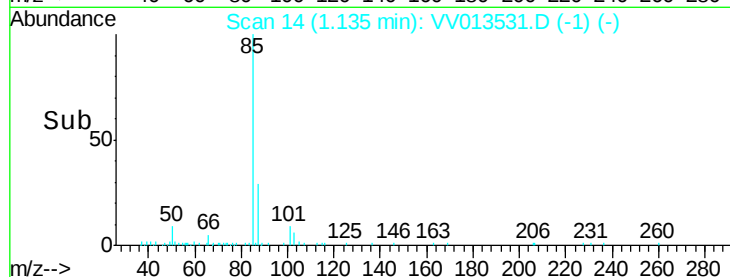
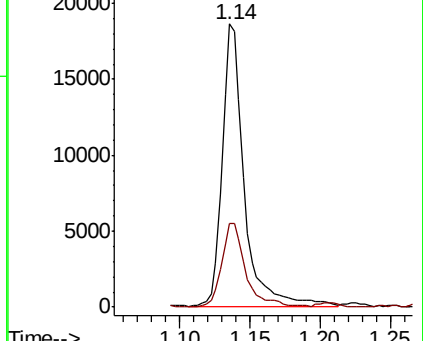
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Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 0.444 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV013531.D

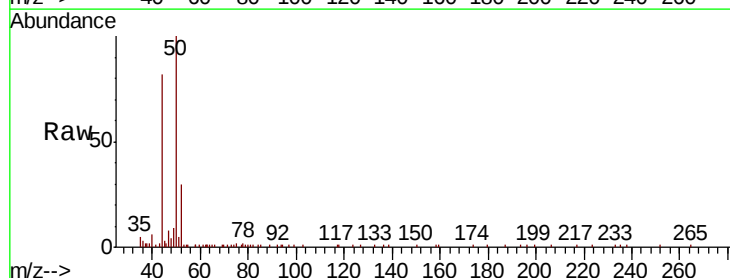
Acq: 08 Nov 2019 09:57

Tgt Ion: 50 Resp: 18226

Ion Ratio Lower Upper

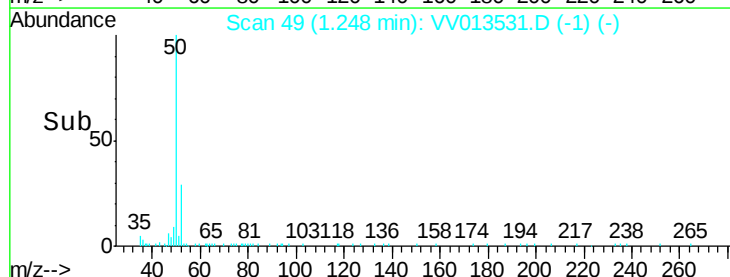
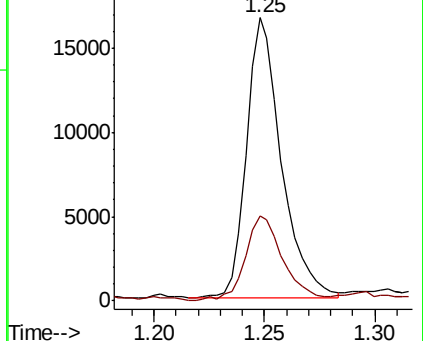
50 100

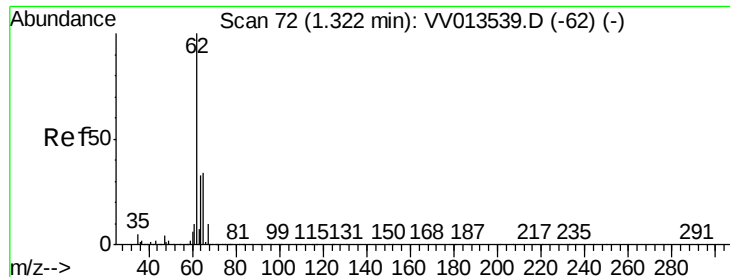
52 29.9 23.0 42.6



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0





#5

Vinyl chloride

Concen: 0.418 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV013531.D

Acq: 08 Nov 2019 09:57

Instrument :

MSVOA_V

ClientSampleId :

VSTD0.535

Tot Ion: 62 Resp: 16444

Ion Ratio Lower Upper

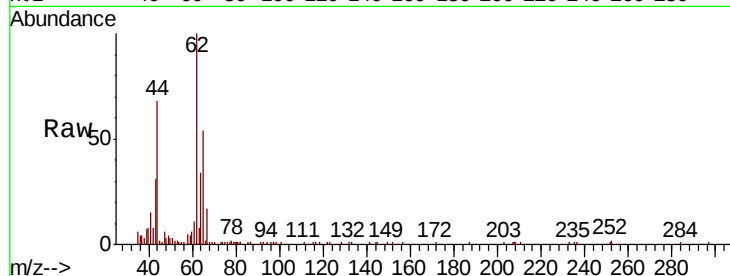
62 100

64 34.1 22.4 41.6

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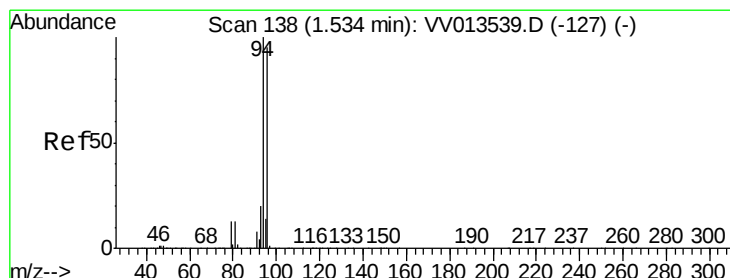
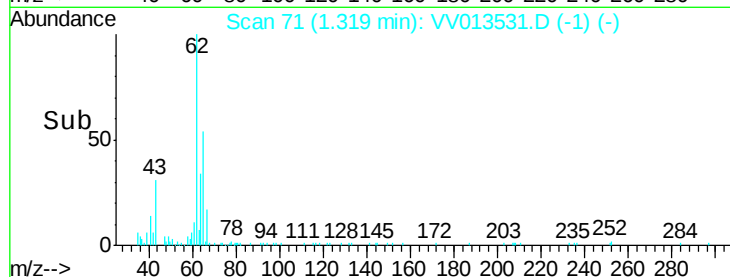
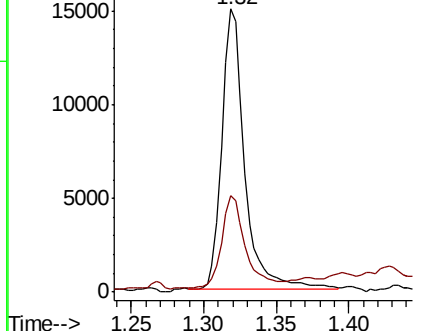
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Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#6

Bromomethane

Concen: 0.417 ug/L

RT: 1.53 min Scan# 138

Delta R.T. 0.00 min

Lab File: VV013531.D

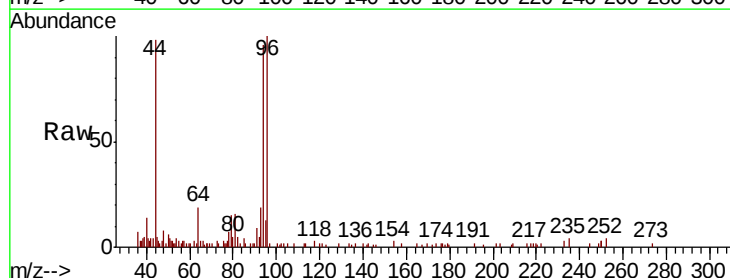
Acq: 08 Nov 2019 09:57

Tgt Ion: 94 Resp: 8600

Ion Ratio Lower Upper

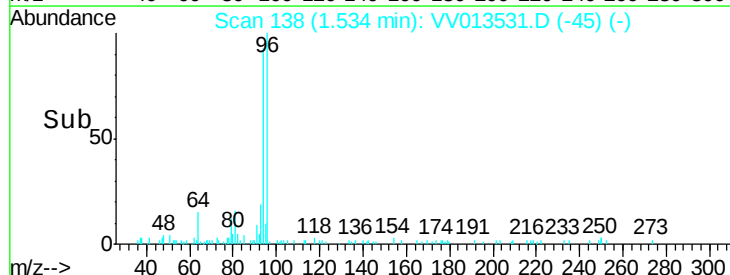
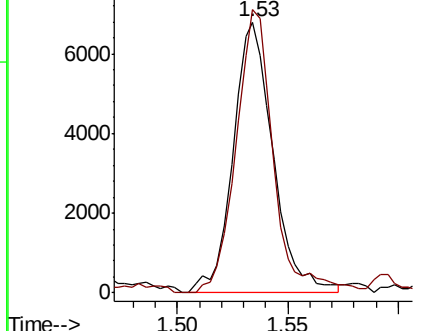
94 100

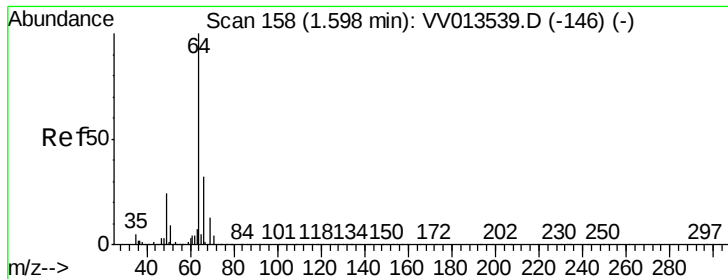
96 104.6 66.4 123.4



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 0.430 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV013531.D

Acq: 08 Nov 2019 09:57

Instrument :

MSVOA_V

ClientSampleId :

VSTD0.535

Tot Ion: 64 Resp: 9397

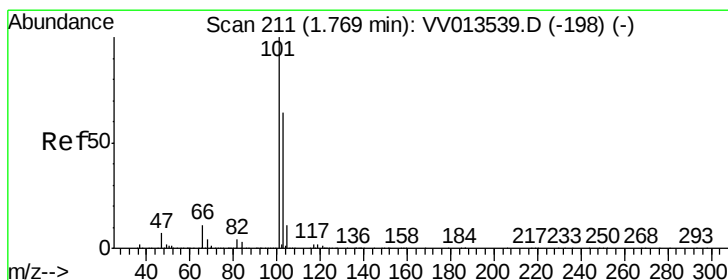
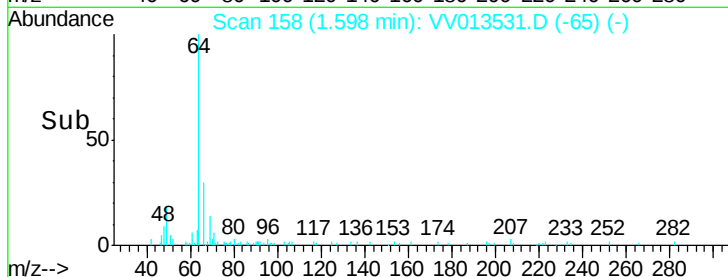
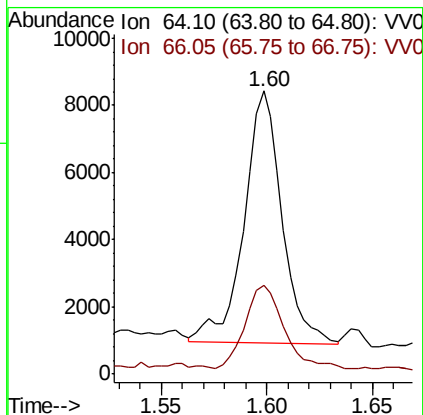
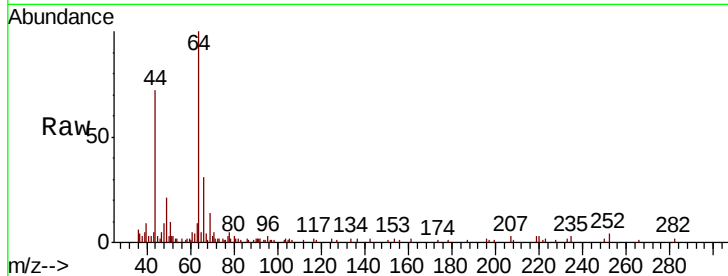
Ion Ratio Lower Upper

64 100

66 31.2 21.1 39.3

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#9

Trichlorofluoromethane

Concen: 0.432 ug/L

RT: 1.77 min Scan# 210

Delta R.T. -0.00 min

Lab File: VV013531.D

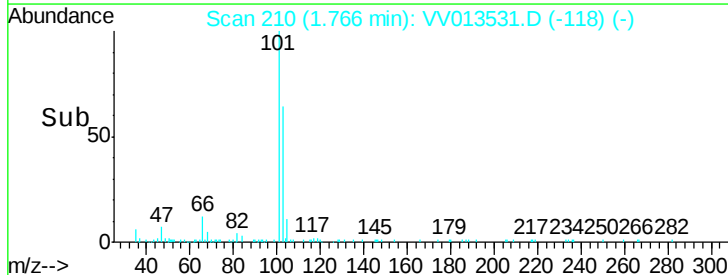
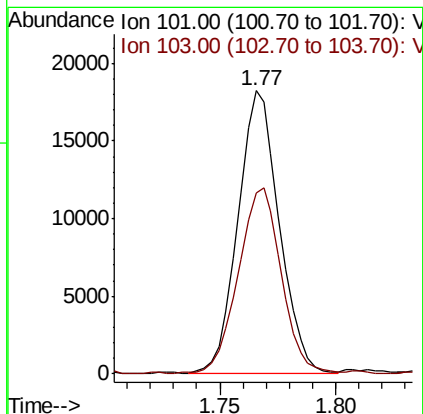
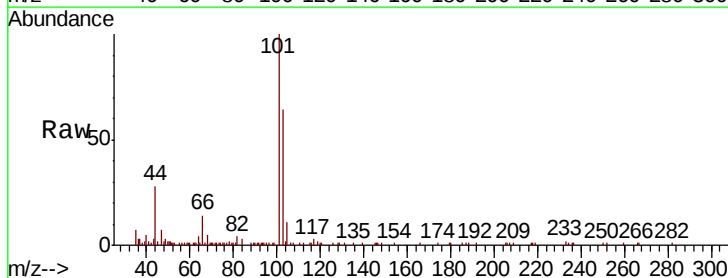
Acq: 08 Nov 2019 09:57

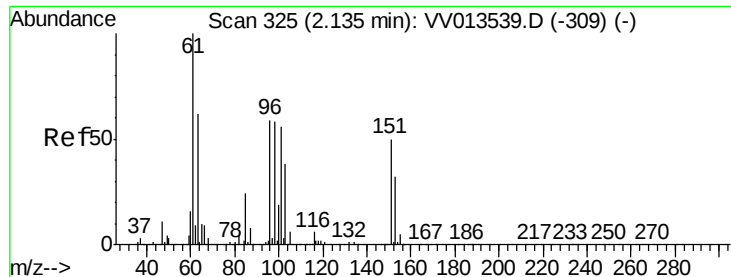
Tgt Ion: 101 Resp: 22580

Ion Ratio Lower Upper

101 100

103 68.7 50.5 75.7





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.453 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV013531.D

Acq: 08 Nov 2019 09:57

Instrument :

MSVOA_V

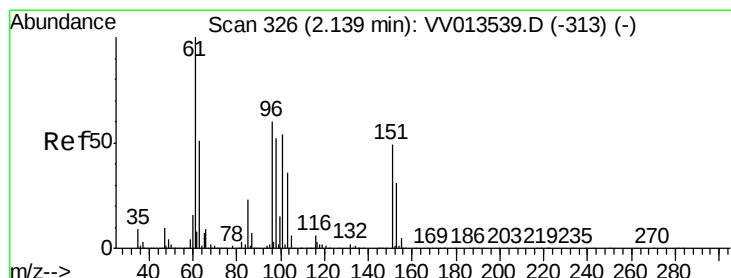
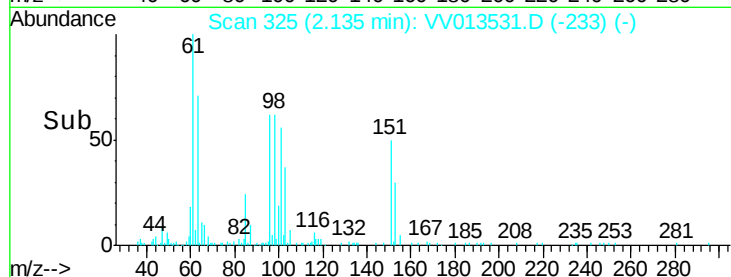
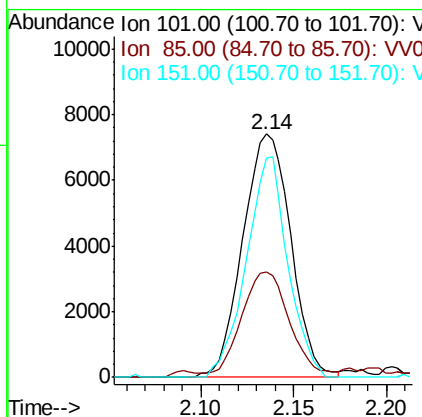
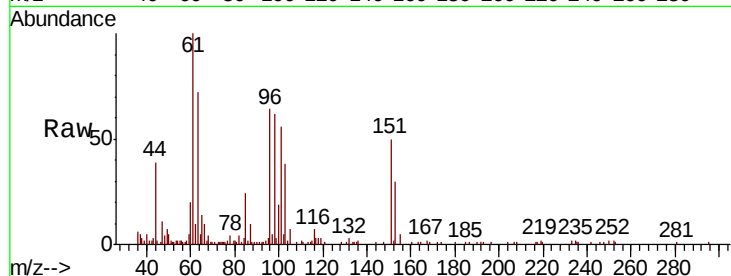
ClientSampleId :

VSTD0.535

Tot Ion:	101	Resp:	13315
Ion Ratio	Lower	Upper	
101	100		
85	43.8	33.8	50.8
151	78.2	69.5	104.3

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 0.451 ug/L

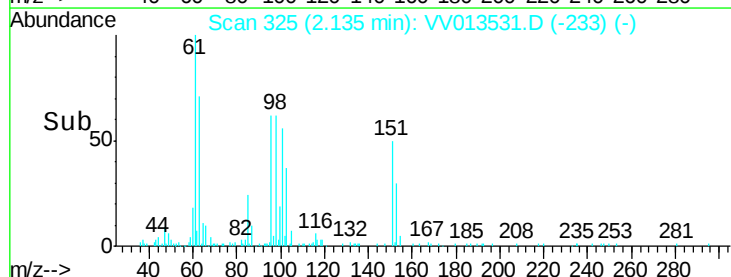
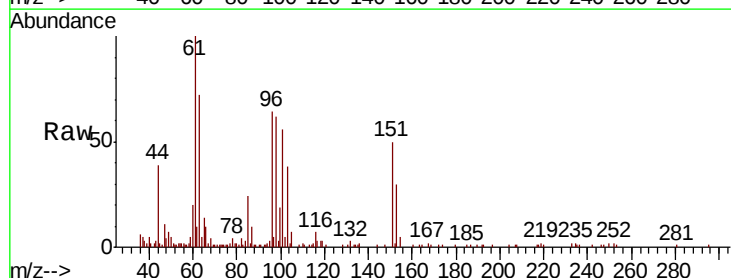
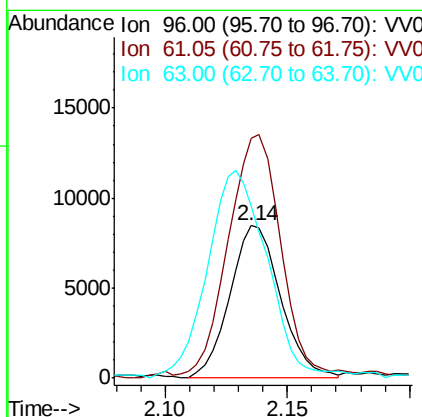
RT: 2.14 min Scan# 325

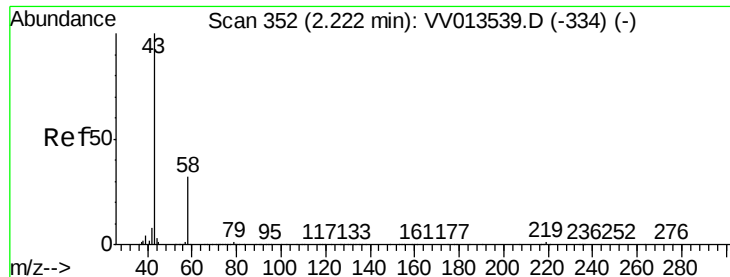
Delta R.T. -0.00 min

Lab File: VV013531.D

Acq: 08 Nov 2019 09:57

Tgt Ion:	96	Resp:	12240
Ion Ratio	Lower	Upper	
96	100		
61	157.0	117.1	217.5
63	112.7	68.5	127.1





#13

Acetone

Concen: 4.004 ug/L m

RT: 2.22 min Scan# 350

Delta R.T. -0.01 min

Lab File: VV013531.D

Acq: 08 Nov 2019 09:57

Tot Ion: 43 Resp: 17241

Ion Ratio Lower Upper

43 100

58 17.4 0.0 60.8

Instrument :

MSVOA_V

ClientSampleId :

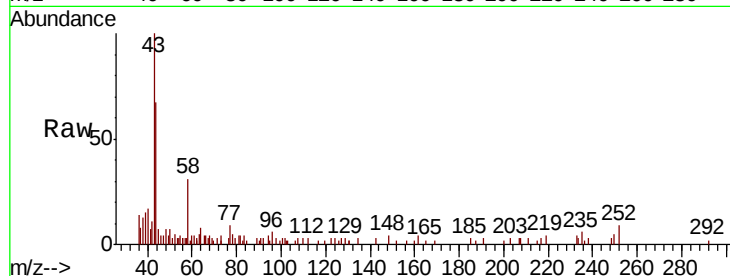
VSTD0.535

Manual Integrations

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Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

2.22

5000

4000

3000

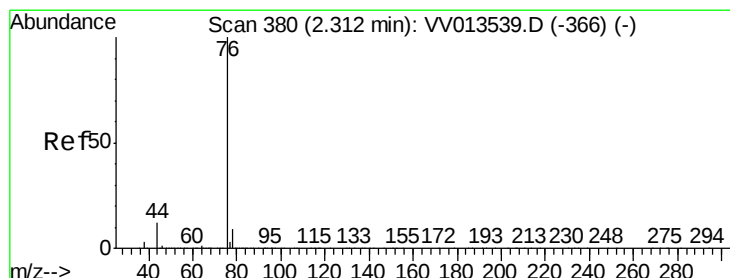
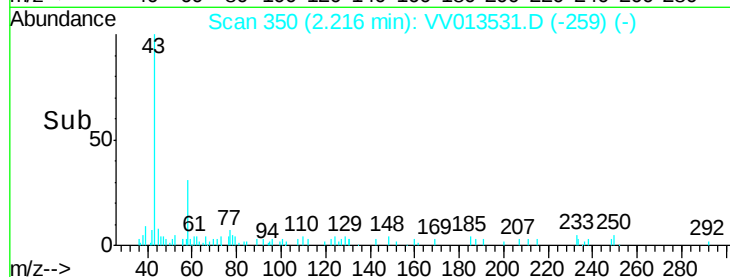
2000

1000

0

Time-->

2.15 2.20 2.25 2.30



#14

Carbon disulfide

Concen: 0.430 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV013531.D

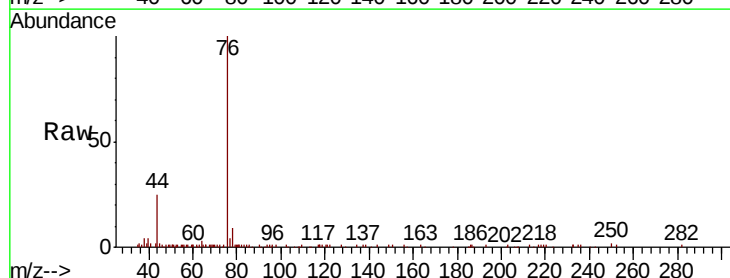
Acq: 08 Nov 2019 09:57

Tgt Ion: 76 Resp: 35895

Ion Ratio Lower Upper

76 100

78 9.1 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0

2.31

25000

20000

15000

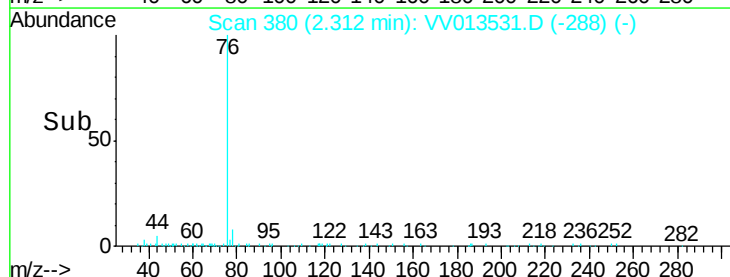
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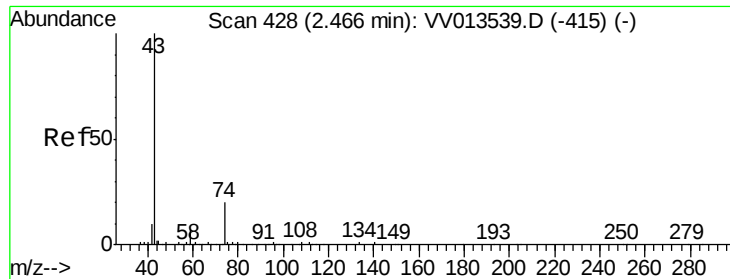
5000

0

Time-->

2.25 2.30 2.35





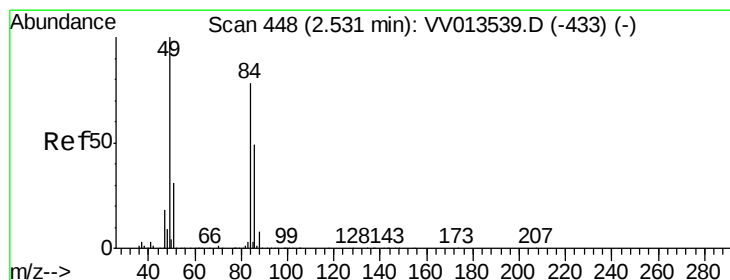
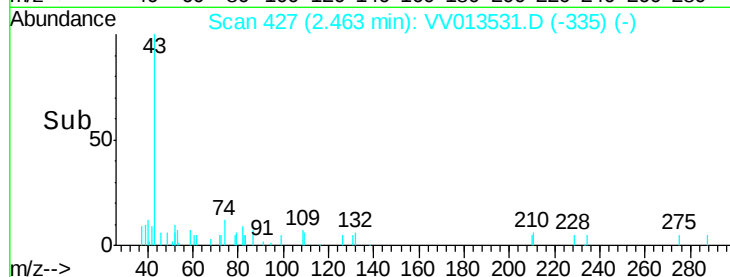
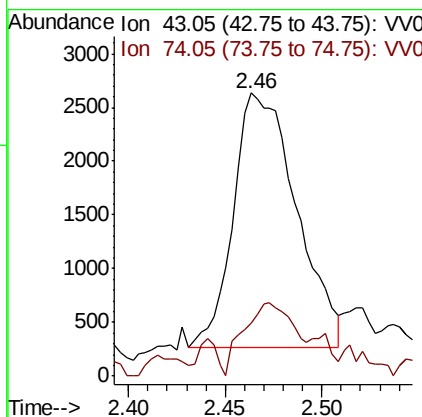
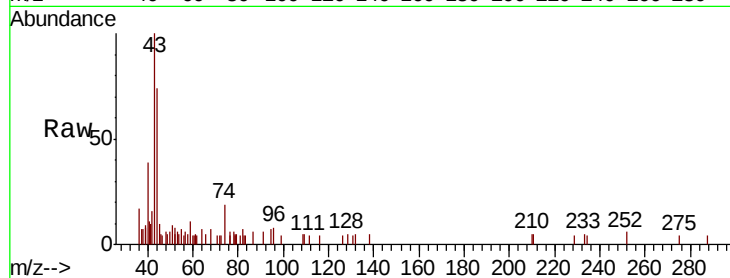
#15
Methvl Acetate
Concen: 0.416 ug/L
RT: 2.46 min Scan# 427
Delta R.T. -0.00 min
Lab File: VV013531.D
Acq: 08 Nov 2019 09:57

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.535

Tot Ion: 43 Resp: 5383
Ion Ratio Lower Upper
43 100
74 23.3 19.4 29.0

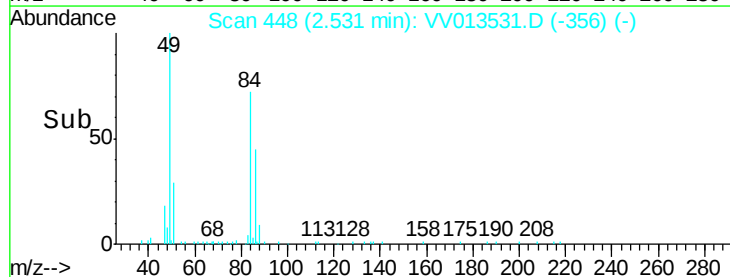
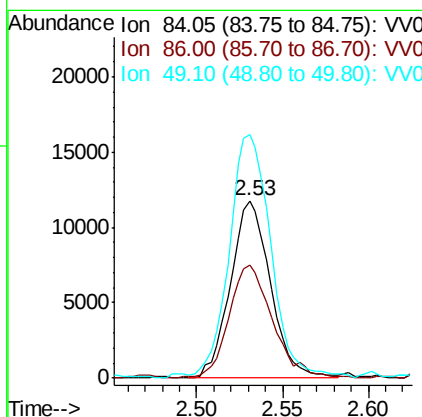
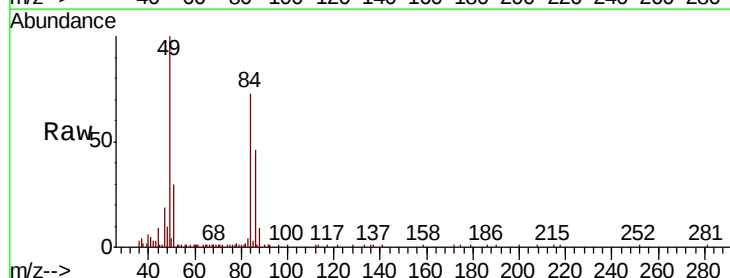
Manual Integrations
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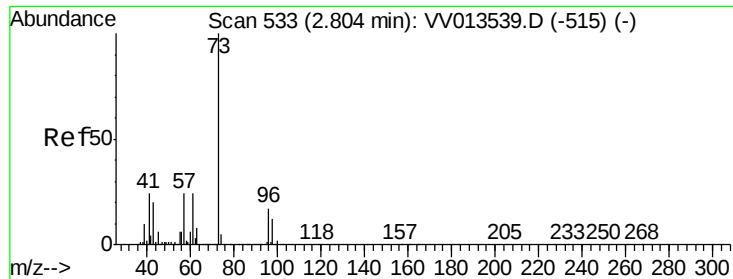
MMDadoda
11/11/2019 3:33:48 PM



#16
Methylene chloride
Concen: 0.496 ug/L
RT: 2.53 min Scan# 448
Delta R.T. -0.00 min
Lab File: VV013531.D
Acq: 08 Nov 2019 09:57

Tgt Ion: 84 Resp: 19109
Ion Ratio Lower Upper
84 100
86 63.6 44.2 82.2
49 137.0 88.8 164.8





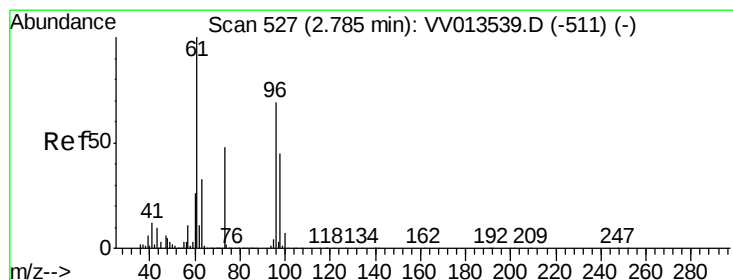
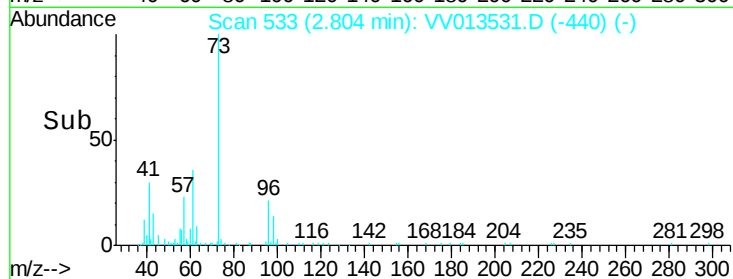
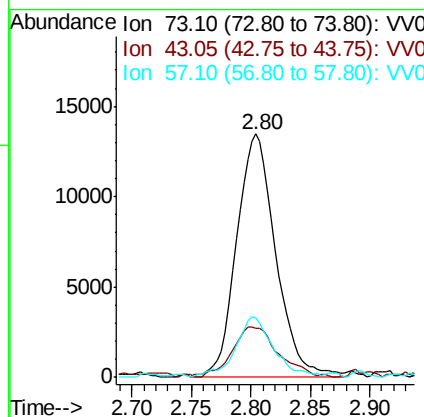
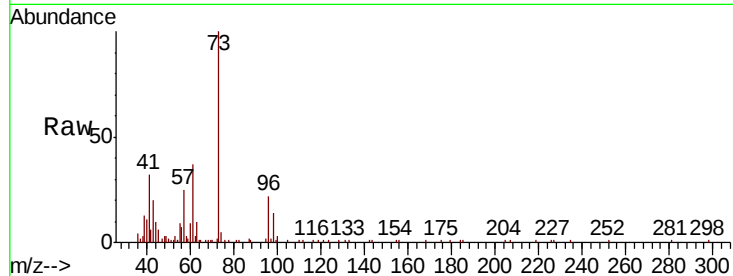
#17
Methvl tert-butvl Ether
Concen: 0.410 ug/L
RT: 2.80 min Scan# 533
Delta R.T. 0.00 min
Lab File: VV013531.D
Acq: 08 Nov 2019 09:57

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.535

Tot Ion:	73	Resp:	30726
Ion	Ratio	Lower	Upper
73	100		
43	24.5	16.4	24.6
57	24.3	18.2	27.2

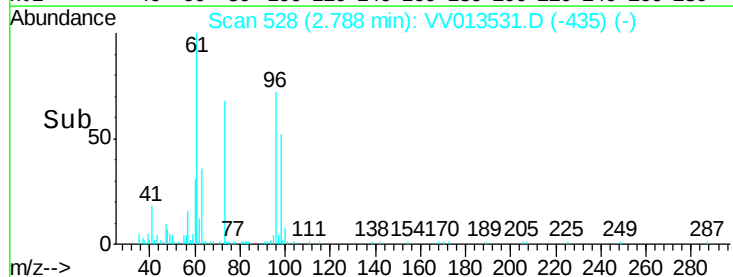
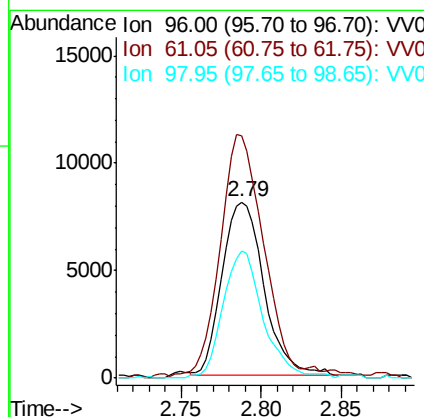
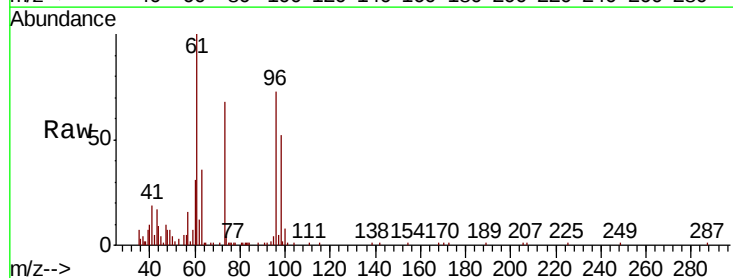
Manual Integrations
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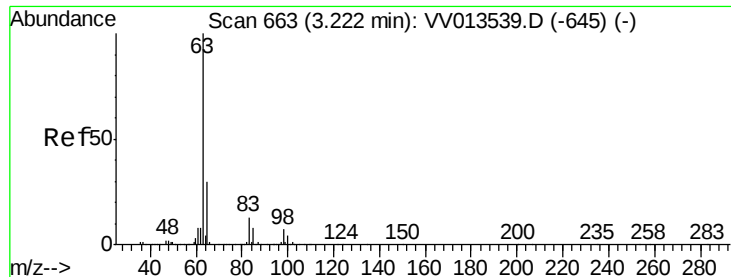
MMDadoda
11/11/2019 3:33:48 PM



#18
trans-1,2-Dichloroethene
Concen: 0.414 ug/L
RT: 2.79 min Scan# 528
Delta R.T. 0.00 min
Lab File: VV013531.D
Acq: 08 Nov 2019 09:57

Tgt Ion:	96	Resp:	14493
Ion	Ratio	Lower	Upper
96	100		
61	137.8	100.0	185.8
98	71.9	45.3	84.1





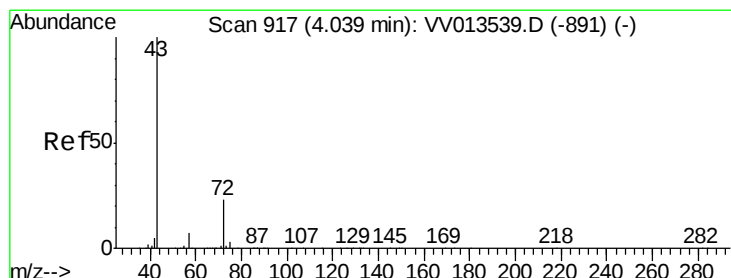
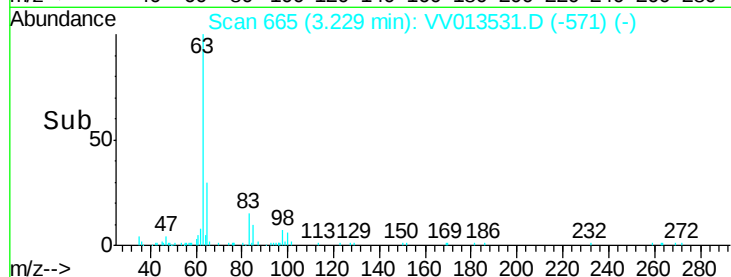
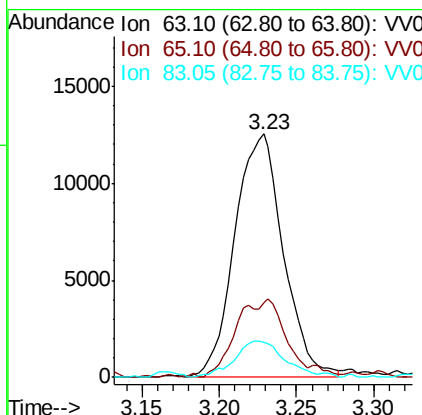
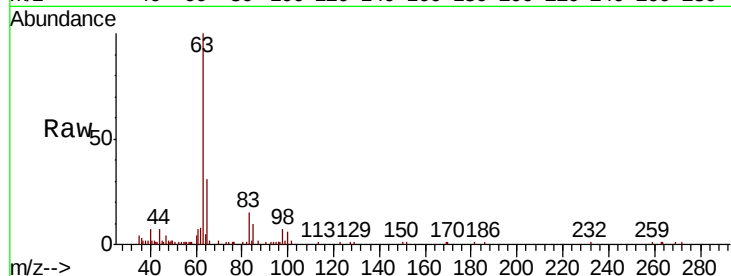
#19
 1,1-Dichloroethane
 Concen: 0.414 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. 0.00 min
 Lab File: VV013531.D
 Acq: 08 Nov 2019 09:57

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD0.535

Tot Ion	Ratio	Lower	Upper
63	100		
65	30.6	22.9	42.5
83	14.5	9.1	16.9

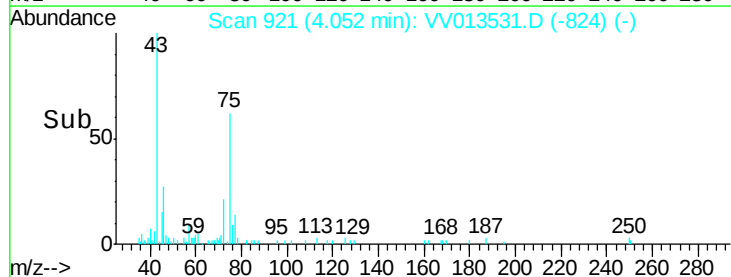
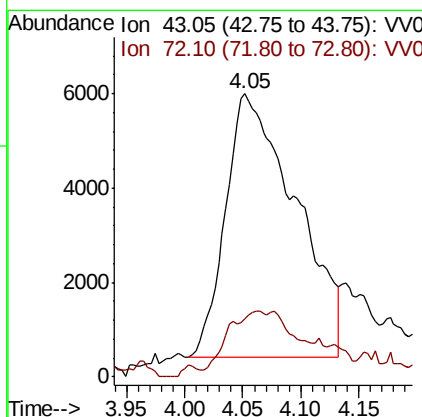
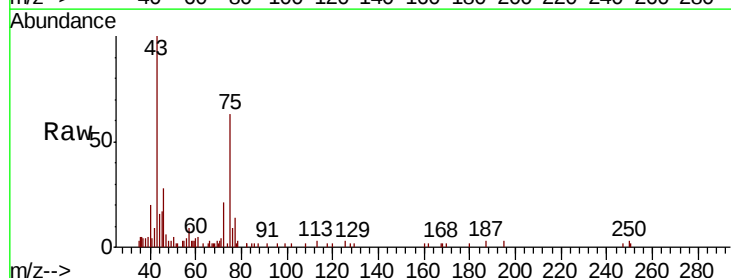
Manual Integrations
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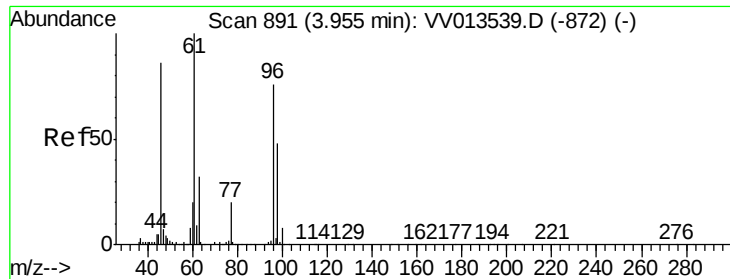
MMDadoda
 11/11/2019 3:33:48 PM



#21
 2-Butanone
 Concen: 2.857 ug/L
 RT: 4.05 min Scan# 921
 Delta R.T. 0.01 min
 Lab File: VV013531.D
 Acq: 08 Nov 2019 09:57

Tgt Ion	Ratio	Lower	Upper
43	100		
72	11.8	11.6	34.7





#22

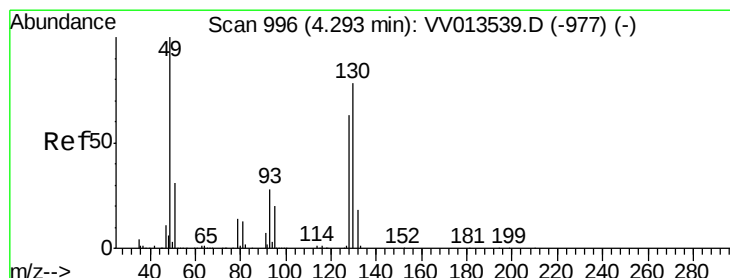
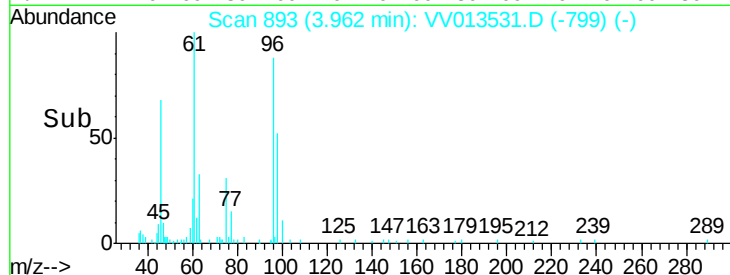
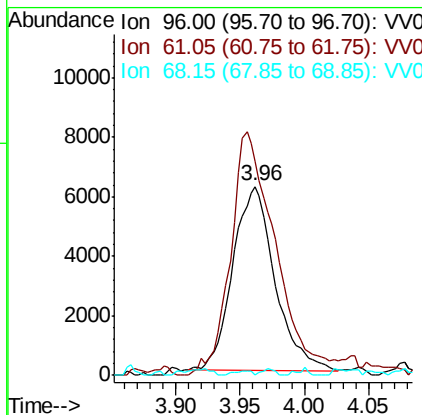
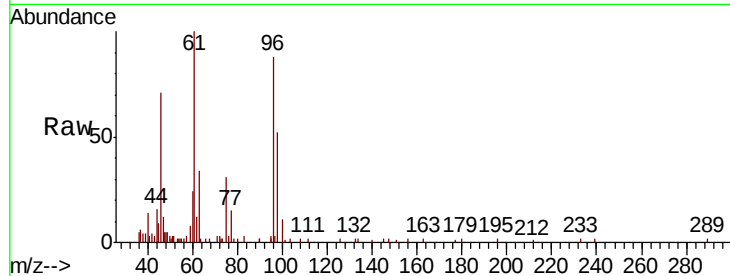
cis-1,2-Dichloroethene
 Concen: 0.390 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. 0.00 min
 Lab File: VV013531.D
 Acq: 08 Nov 2019 09:57

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD0.535

Tot Ion	Ratio	Lower	Upper
96	100		
61	113.4	94.6	175.8
68	0.0	0.1	0.3

Manual Integrations
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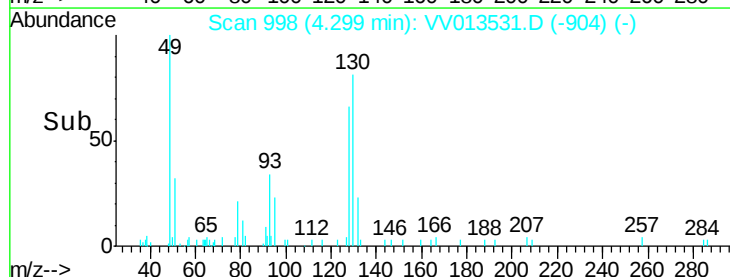
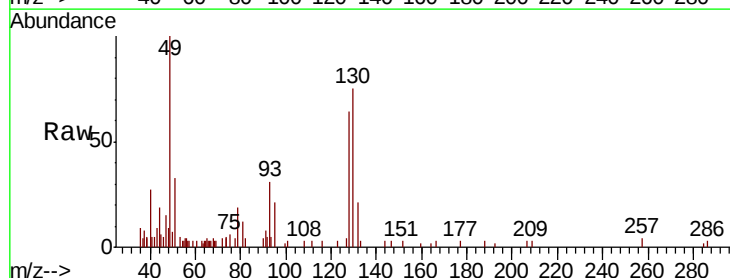
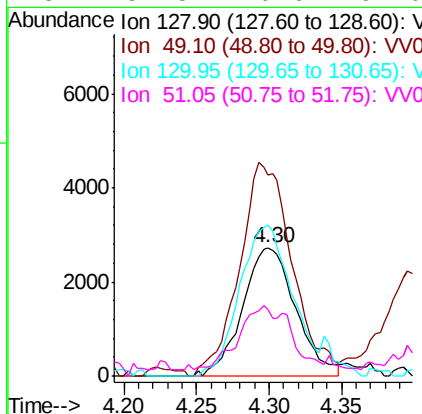
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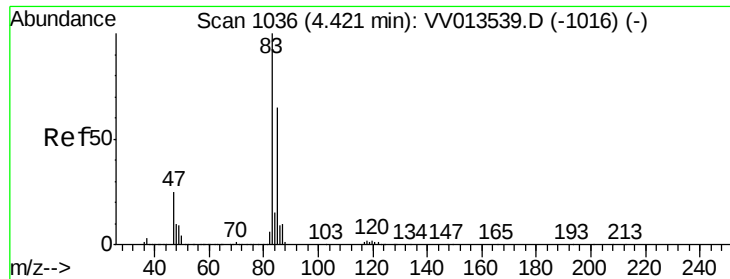


#23

Bromochloromethane
 Concen: 0.422 ug/L
 RT: 4.30 min Scan# 998
 Delta R.T. 0.00 min
 Lab File: VV013531.D
 Acq: 08 Nov 2019 09:57

Tgt Ion	Ratio	Lower	Upper
128	100		
49	156.7	115.9	215.3
130	117.5	87.6	162.6
51	51.8	40.6	61.0





#25

Chloroform

Concen: 0.506 ug/L

RT: 4.42 min Scan# 1036

Delta R.T. -0.00 min

Lab File: VV013531.D

Acq: 08 Nov 2019 09:57

Instrument :

MSVOA_V

ClientSampleId :

VSTD0.535

Tot Ion: 83 Resp: 35272

Ion Ratio Lower Upper

83 100

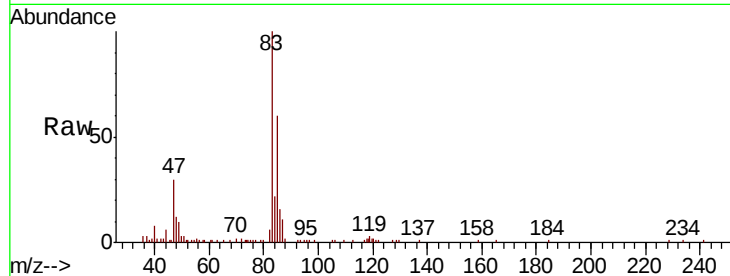
85 59.6 46.3 86.1

Manual Integrations

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Abundance Ion 83.05 (82.75 to 83.75): VV0

Ion 85.00 (84.70 to 85.70): VV0

15000

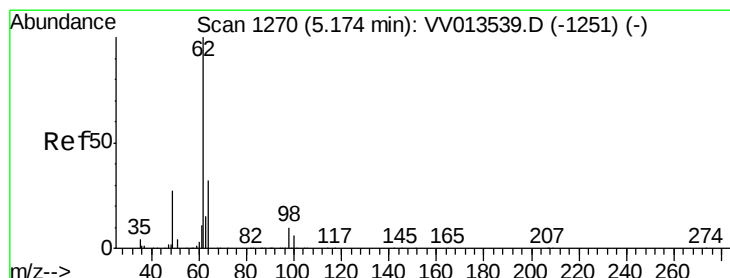
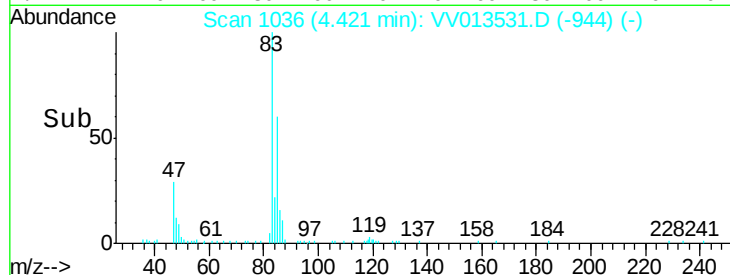
10000

5000

0

4.30 4.40 4.50

Time-->



#27

1,2-Dichloroethane

Concen: 0.406 ug/L

RT: 5.18 min Scan# 1273

Delta R.T. 0.01 min

Lab File: VV013531.D

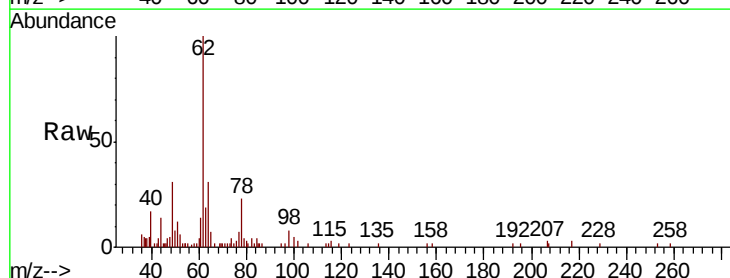
Acq: 08 Nov 2019 09:57

Tgt Ion: 62 Resp: 15806

Ion Ratio Lower Upper

62 100

98 8.3 7.4 11.0



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 98.05 (97.75 to 98.75): VV0

8000

6000

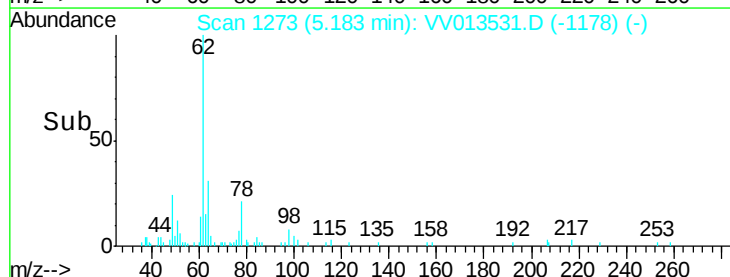
4000

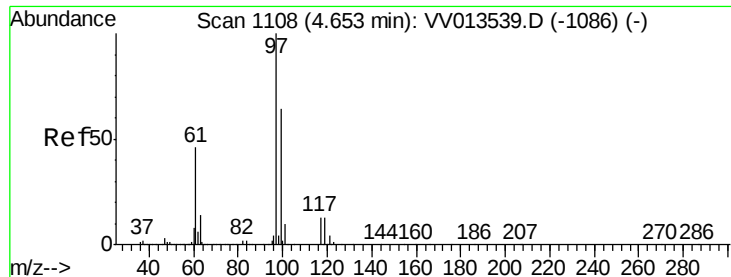
2000

0

5.10 5.15 5.20 5.25

Time-->





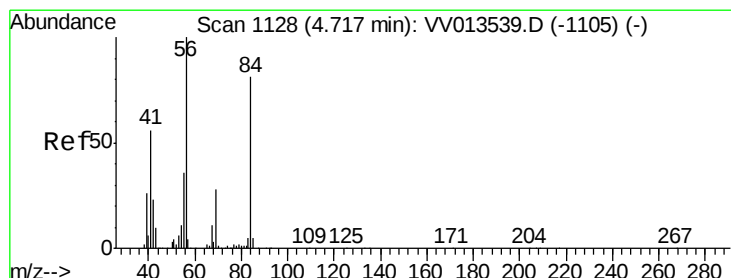
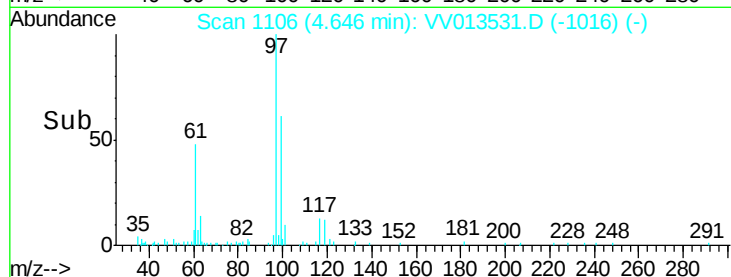
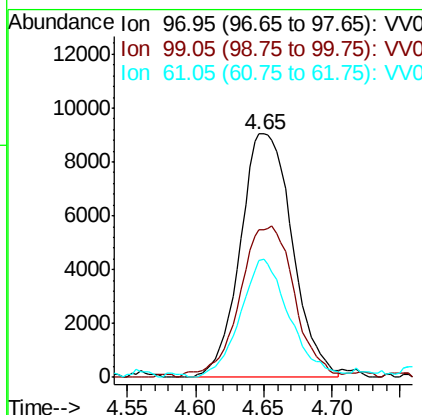
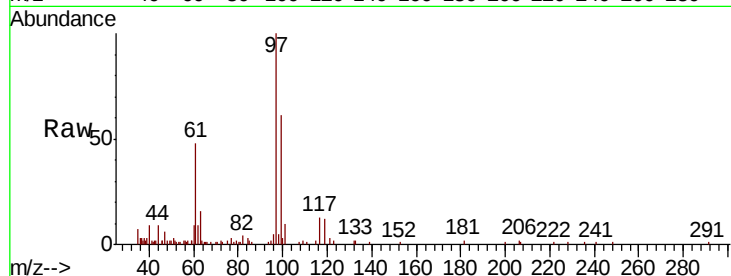
#29
1,1,1-Trichloroethane
Concen: 0.420 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. -0.01 min
Lab File: VV013531.D
Acq: 08 Nov 2019 09:57

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.535

Tot Ion	Ratio	Lower	Upper
97	100		
99	64.9	50.4	75.6
61	45.9	35.5	53.3

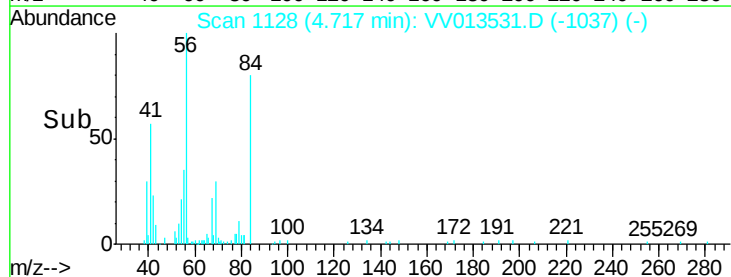
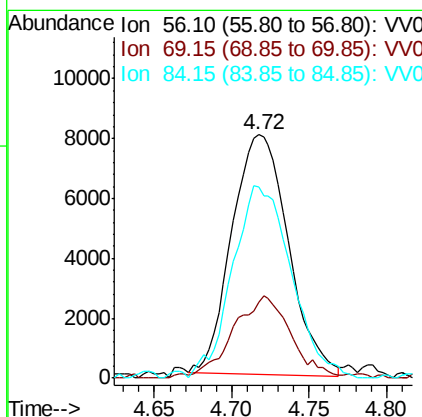
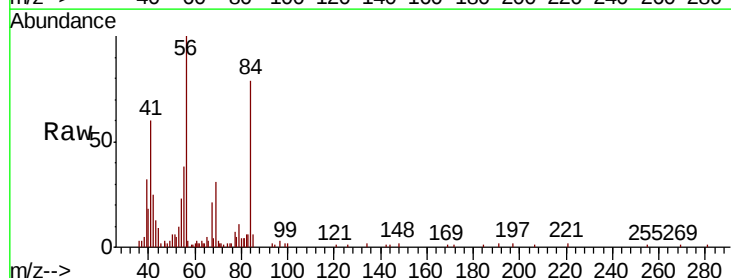
Manual Integrations
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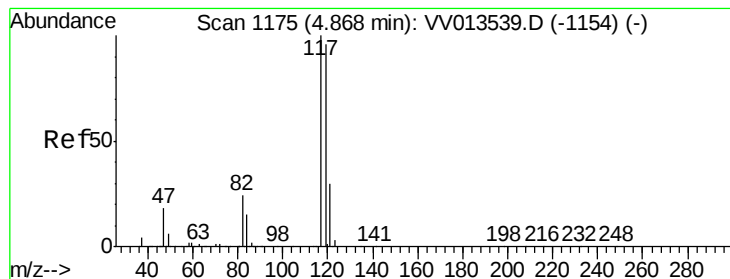
MMDadoda
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#30
Cyclohexane
Concen: 0.345 ug/L
RT: 4.72 min Scan# 1128
Delta R.T. -0.01 min
Lab File: VV013531.D
Acq: 08 Nov 2019 09:57

Tgt Ion	Ratio	Lower	Upper
56	100		
69	34.5	22.9	34.3#
84	83.2	67.2	100.8





#31

Carbon tetrachloride

Concen: 0.402 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. -0.00 min

Lab File: VV013531.D

Acq: 08 Nov 2019 09:57

Instrument :

MSVOA_V

ClientSampleId :

VSTD0.535

Tot Ion:117 Resp: 20587

Ion Ratio Lower Upper

117 100

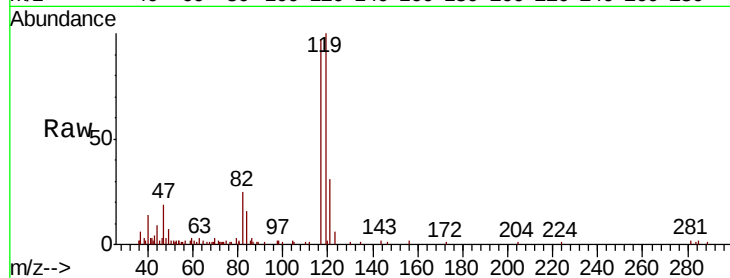
119 100.8 77.0 115.4

Manual Integrations

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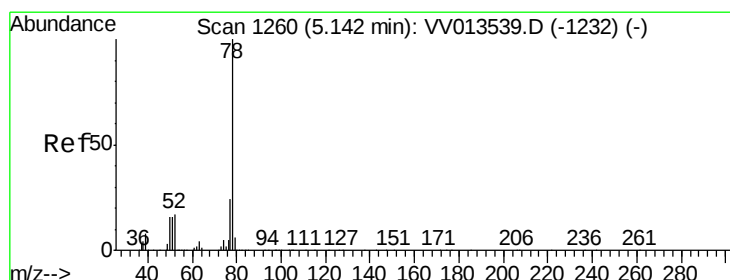
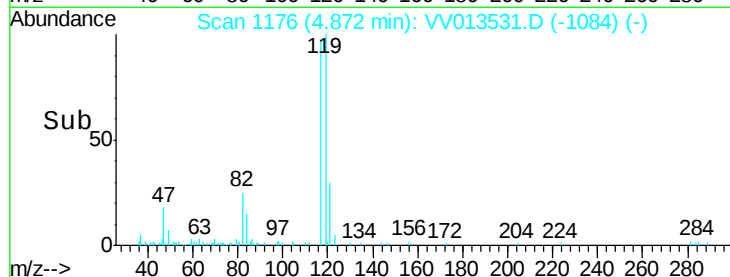
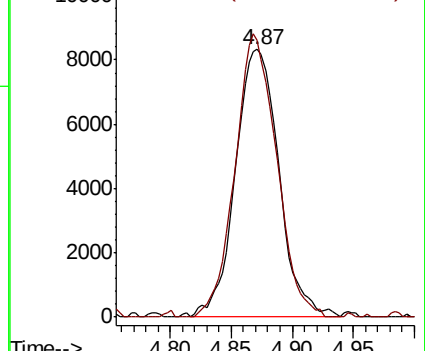
MMDadoda

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Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.357 ug/L

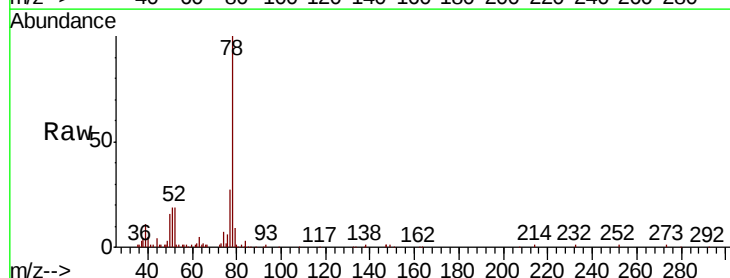
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

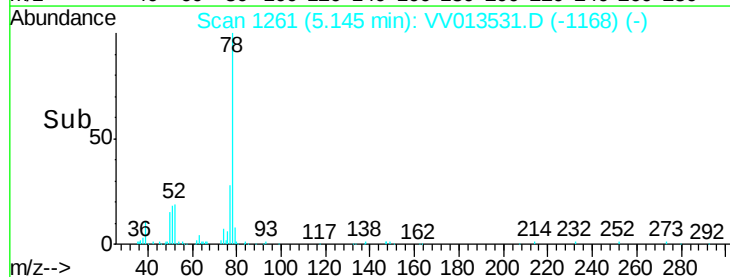
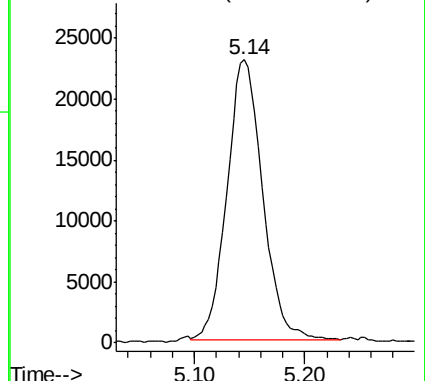
Lab File: VV013531.D

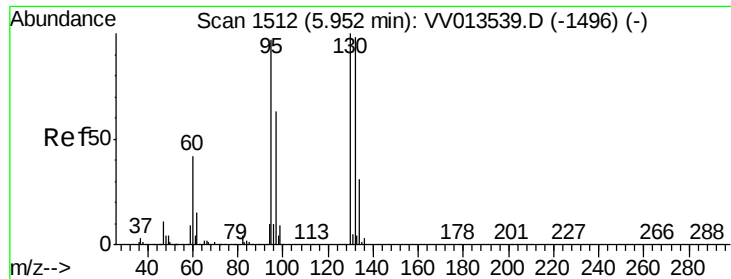
Acq: 08 Nov 2019 09:57

Tgt Ion: 78 Resp: 51033



Abundance Ion 78.10 (77.80 to 78.80): VV0





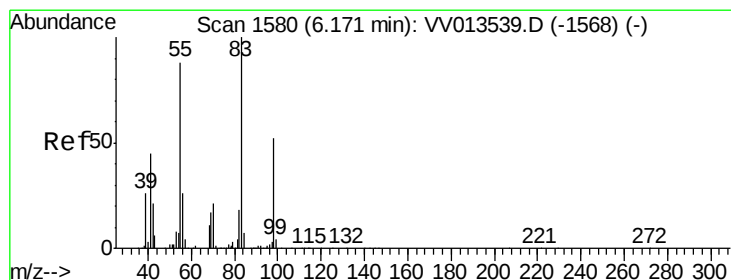
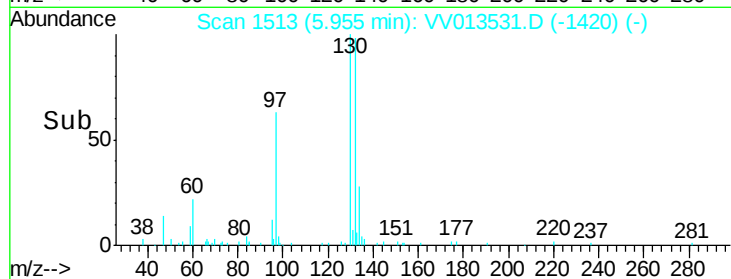
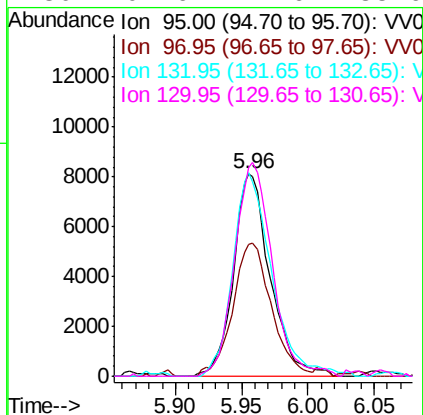
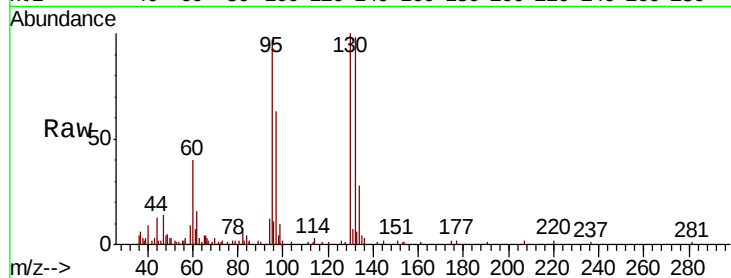
#34
 Trichloroethene
 Concen: 0.406 ug/L
 RT: 5.96 min Scan# 1513
 Delta R.T. 0.00 min
 Lab File: VV013531.D
 Acq: 08 Nov 2019 09:57

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD0.535

Tot Ion	95	Resp:	15625
Ion Ratio	Lower	Upper	
95	100		
97	65.1	44.7	83.1
132	100.1	71.6	133.0
130	102.6	74.6	138.6

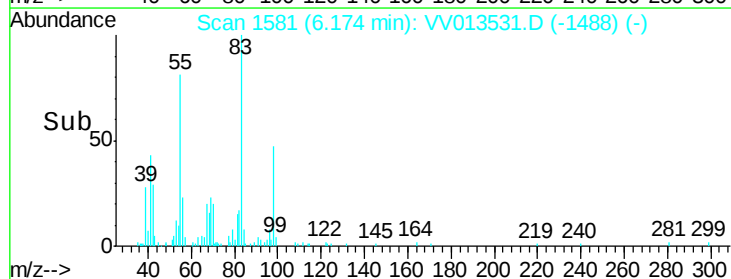
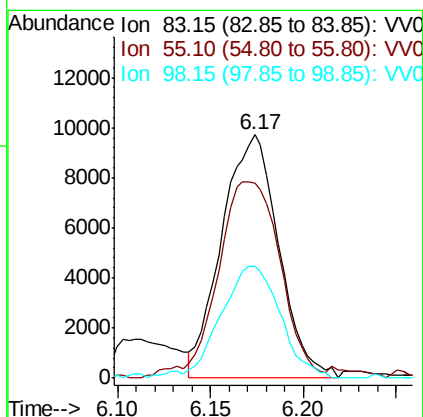
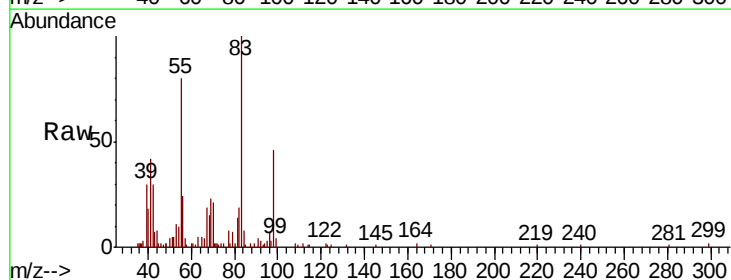
Manual Integrations
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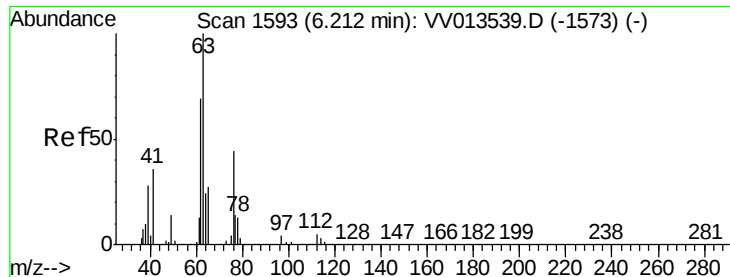
MMDadoda
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#35
 Methylcyclohexane
 Concen: 0.348 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. 0.00 min
 Lab File: VV013531.D
 Acq: 08 Nov 2019 09:57

Tgt Ion	83	Resp:	20776
Ion Ratio	Lower	Upper	
83	100		
55	88.7	63.8	95.8
98	48.5	38.4	57.6





#37

1,2-Dichloropropane

Concen: 0.365 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VV013531.D

Acq: 08 Nov 2019 09:57

Instrument :

MSVOA_V

ClientSampleId :

VSTD0.535

Tot Ion: 63 Resp: 13092

Ion Ratio Lower Upper

63 100

112 5.4

3.8

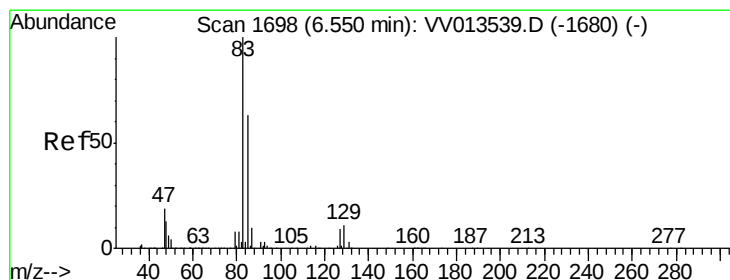
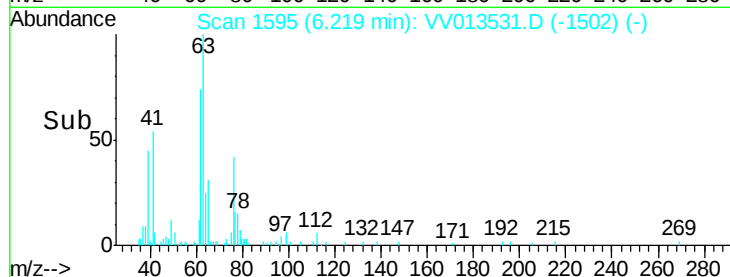
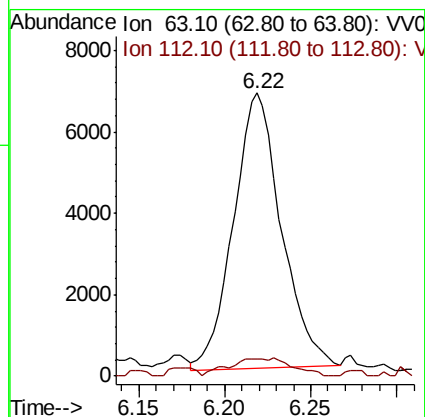
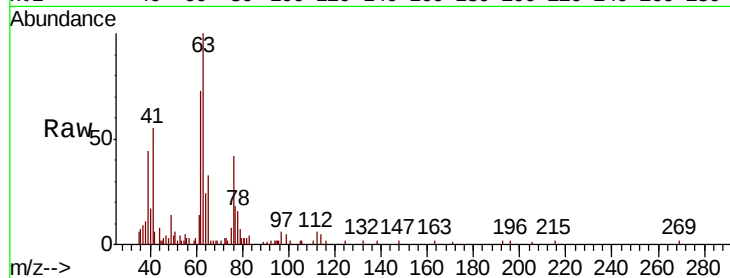
5.6

Manual Integrations

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#38

Bromodichloromethane

Concen: 0.405 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV013531.D

Acq: 08 Nov 2019 09:57

Tgt Ion: 83 Resp: 18617

Ion Ratio Lower Upper

83 100

85 61.0

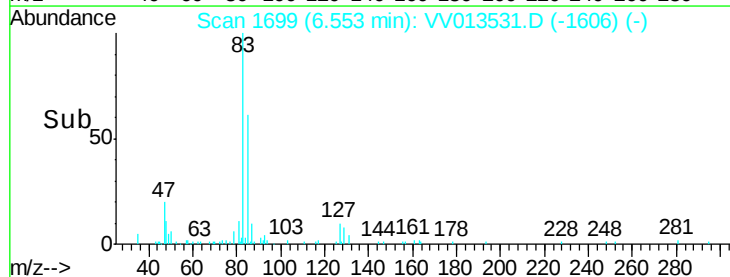
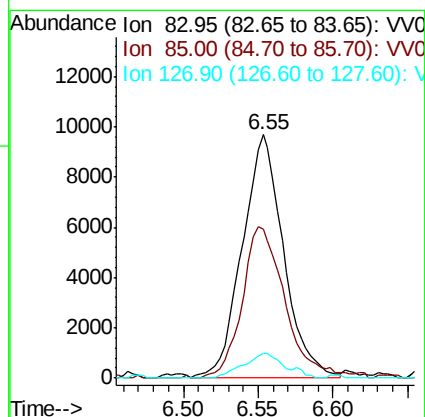
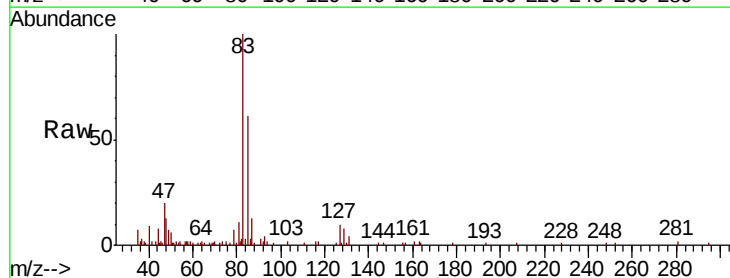
43.6

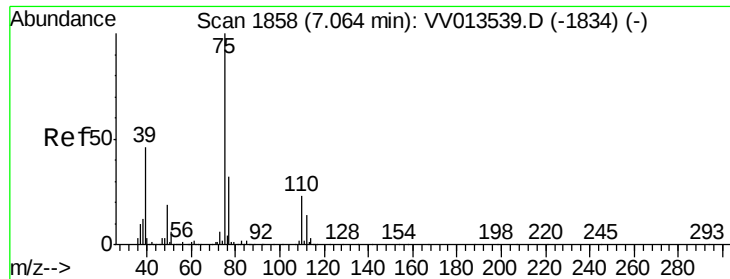
81.0

127 10.3

6.5

9.7#





#39

cis-1,3-Dichloropropene

Concen: 0.343 ug/L

RT: 7.07 min Scan# 1859

Delta R.T. 0.00 min

Lab File: VV013531.D

Acq: 08 Nov 2019 09:57

Instrument :

MSVOA_V

ClientSampleId :

VSTD0.535

Tot Ion: 75 Resp: 16594

Ion Ratio Lower Upper

75 100

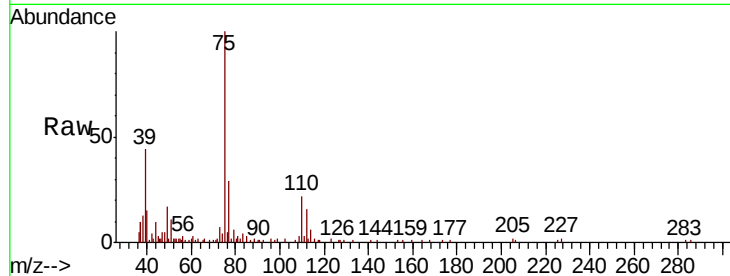
77 29.0 22.1 41.1

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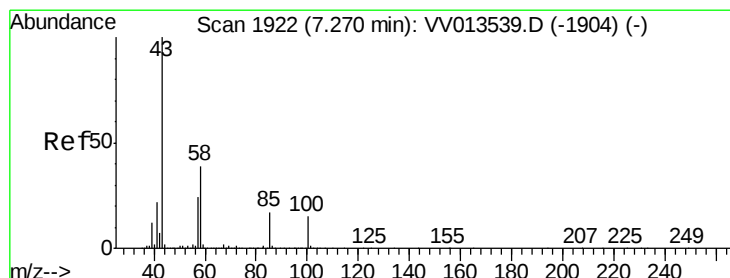
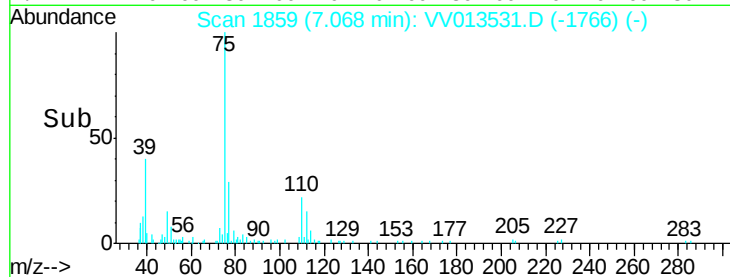
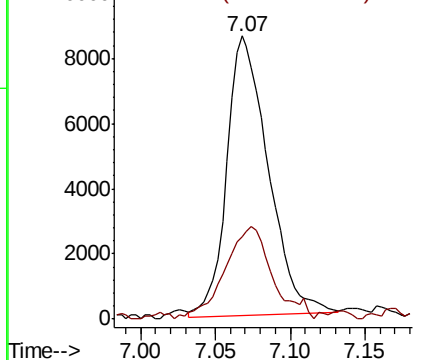
MMDadoda

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Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0



#40

4-Methyl-2-pentanone

Concen: 3.141 ug/L

RT: 7.27 min Scan# 1923

Delta R.T. 0.00 min

Lab File: VV013531.D

Acq: 08 Nov 2019 09:57

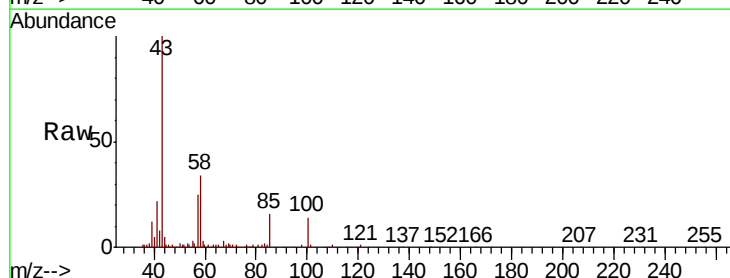
Tgt Ion: 43 Resp: 63625

Ion Ratio Lower Upper

43 100

58 37.9 30.6 45.8

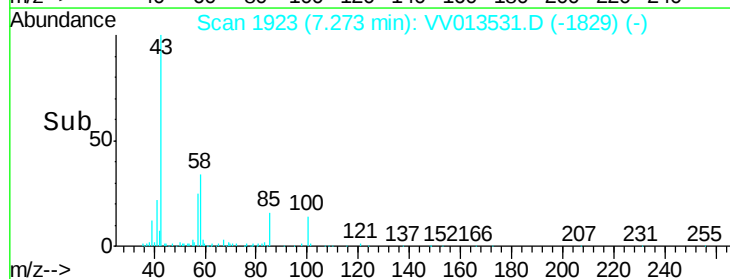
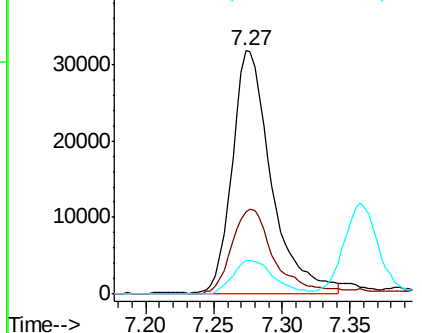
100 14.6 12.0 18.0

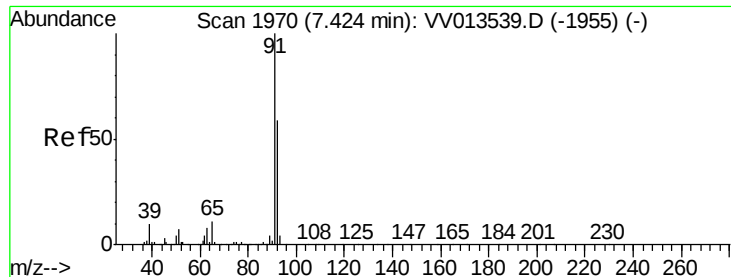


Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 100.15 (99.85 to 100.85): VV0





#42

Toluene

Concen: 0.342 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VV013531.D

Acq: 08 Nov 2019 09:57

Instrument :

MSVOA_V

ClientSampleId :

VSTD0.535

Tot Ion: 91 Resp: 50546

Ion Ratio Lower Upper

91 100

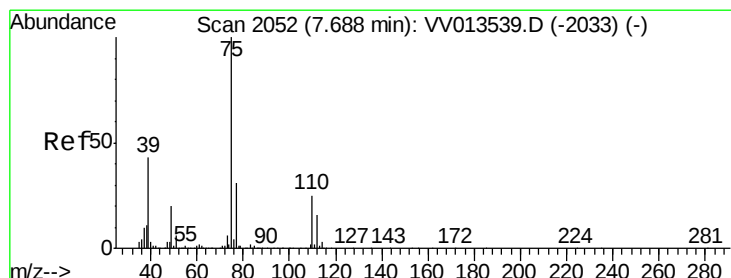
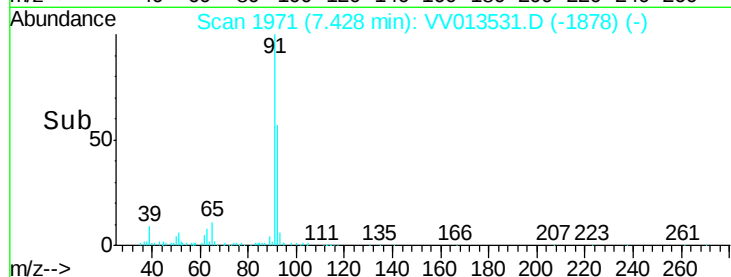
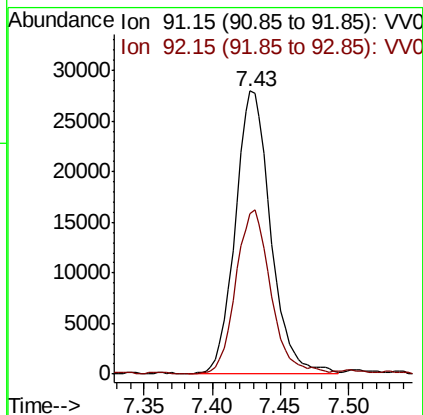
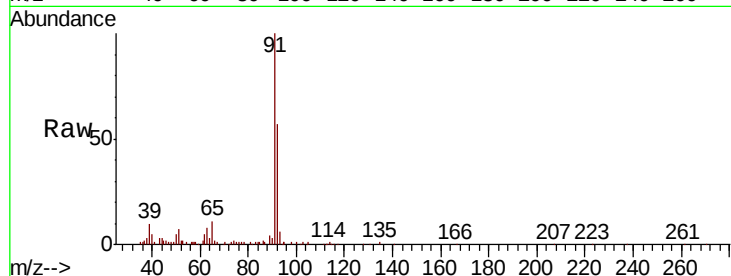
92 56.6 41.4 77.0

Manual Integrations

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#44

trans-1,3-Dichloropropene

Concen: 0.345 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV013531.D

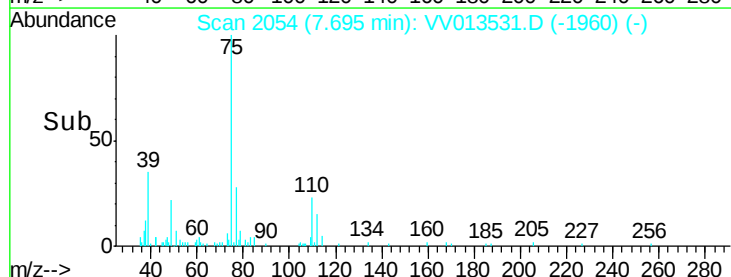
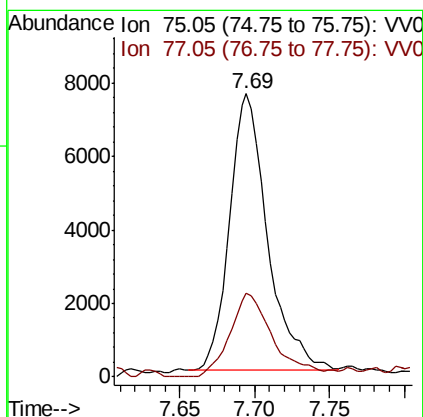
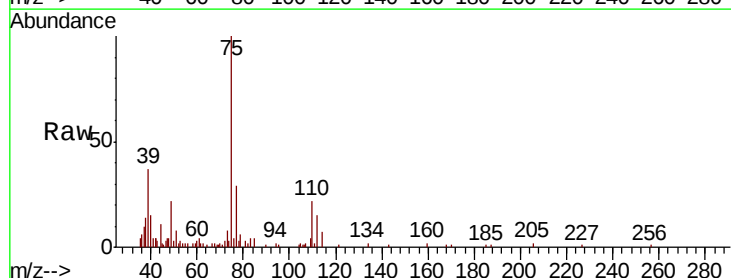
Acq: 08 Nov 2019 09:57

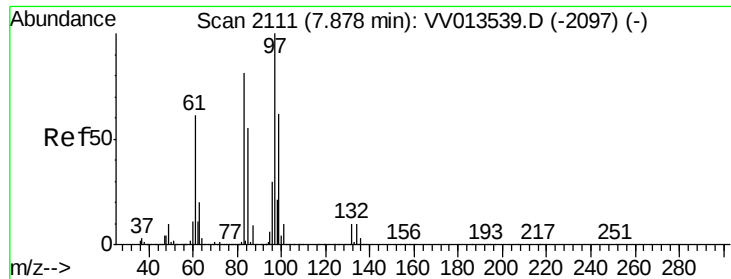
Tgt Ion: 75 Resp: 13342

Ion Ratio Lower Upper

75 100

77 29.4 22.2 41.2





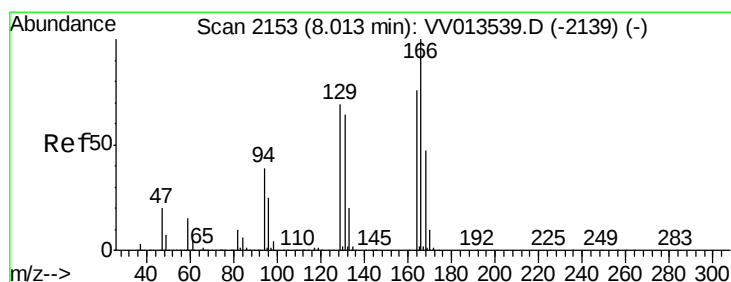
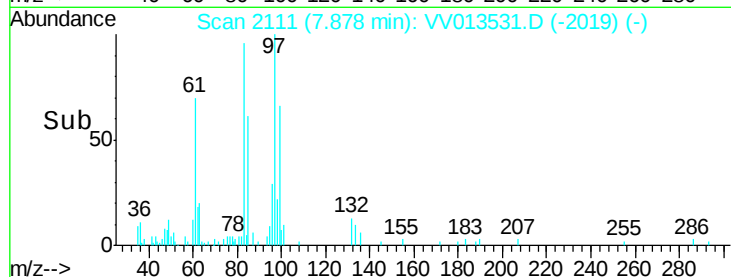
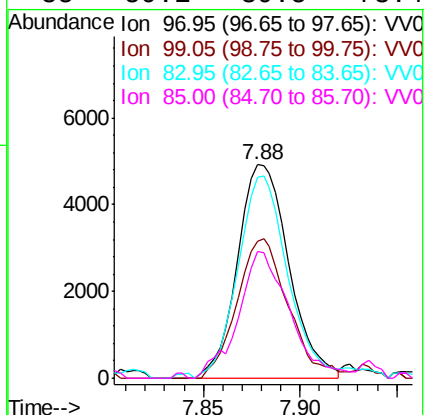
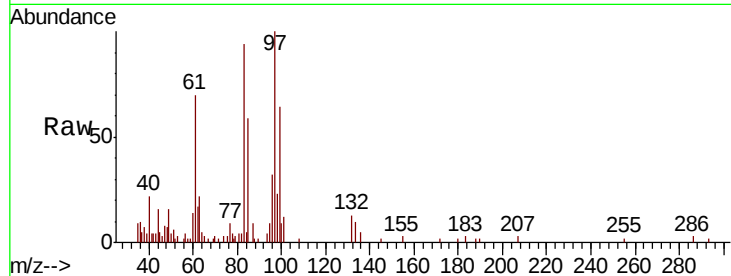
#45
 1,1,2-Trichloroethane
 Concen: 0.369 ug/L
 RT: 7.88 min Scan# 2111
 Delta R.T. -0.00 min
 Lab File: VV013531.D
 Acq: 08 Nov 2019 09:57

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD0.535

Tot Ion:	97	Resp:	9120
Ion	Ratio	Lower	Upper
97	100		
99	64.0	44.4	82.5
83	94.1	57.5	106.7
85	59.1	39.5	73.4

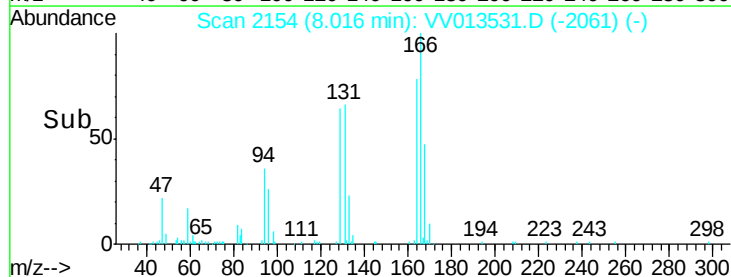
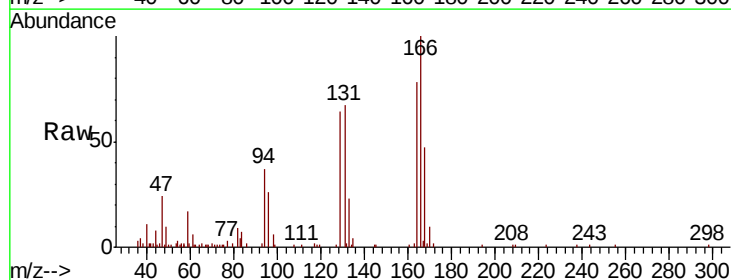
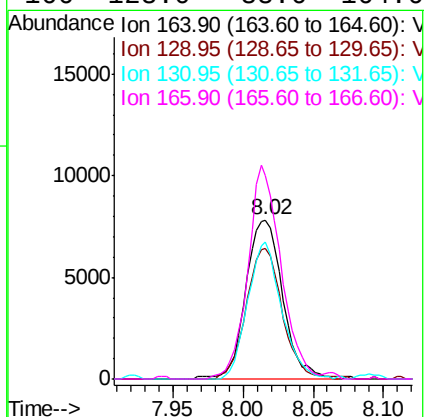
Manual Integrations
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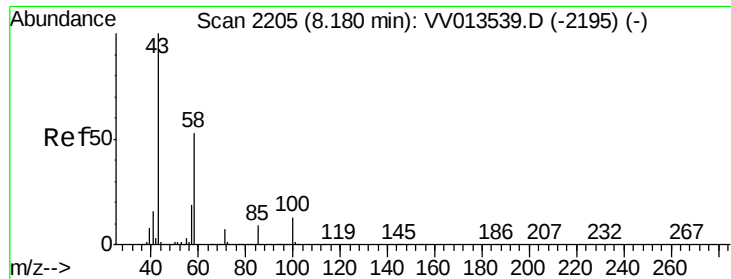
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 11/11/2019 3:33:48 PM



#47
 Tetrachloroethene
 Concen: 0.419 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VV013531.D
 Acq: 08 Nov 2019 09:57

Tgt Ion:	164	Resp:	14321
Ion	Ratio	Lower	Upper
164	100		
129	81.6	59.6	110.8
131	86.0	59.1	109.9
166	128.0	88.6	164.6





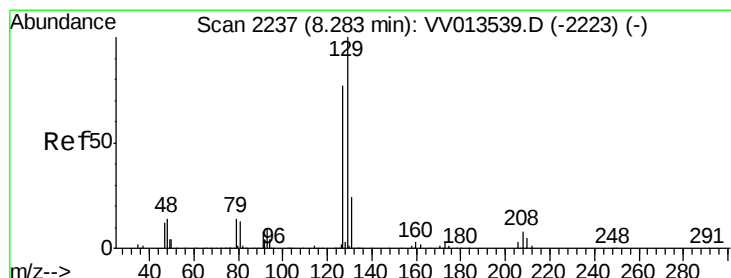
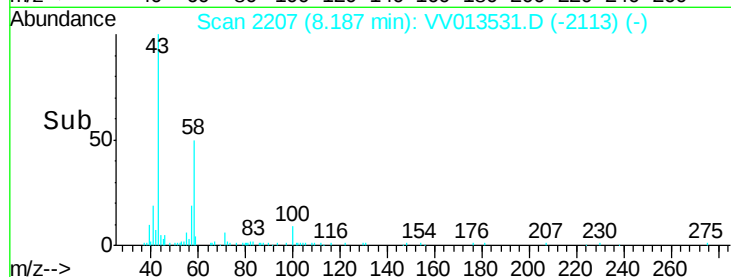
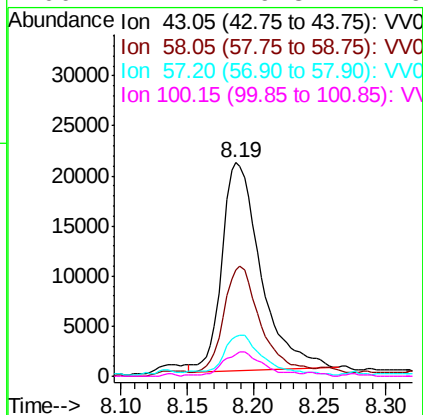
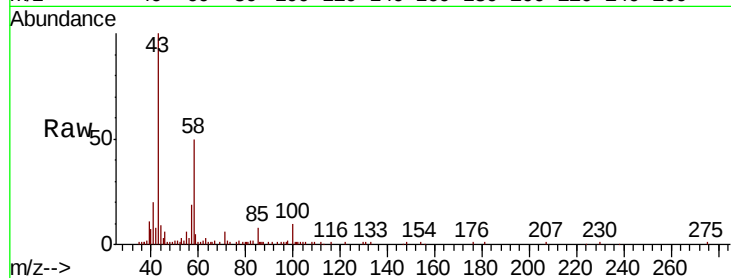
#48
2-Hexanone
Concen: 2.996 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.00 min
Lab File: VV013531.D
Acq: 08 Nov 2019 09:57

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.535

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
58	49.8	43.8	65.8	
57	20.2	15.0	22.6	
100	12.2	9.8	14.6	

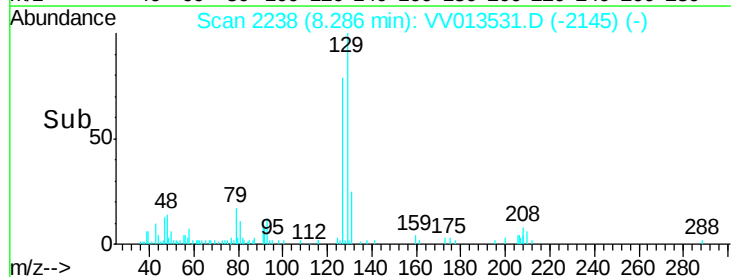
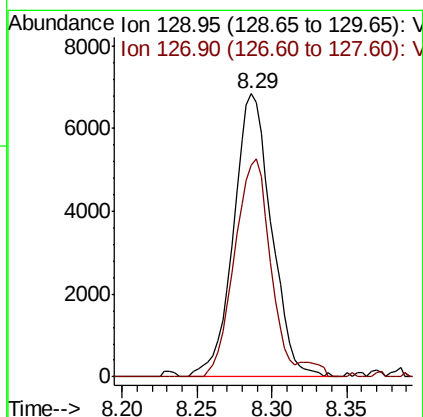
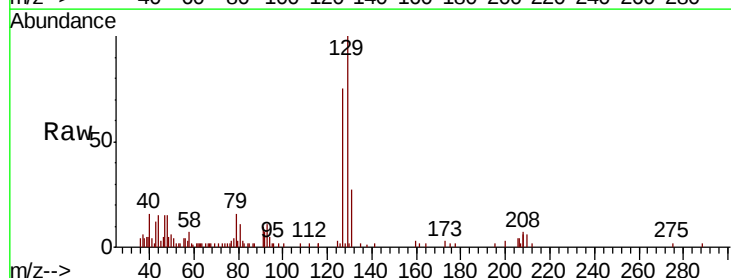
Manual Integrations
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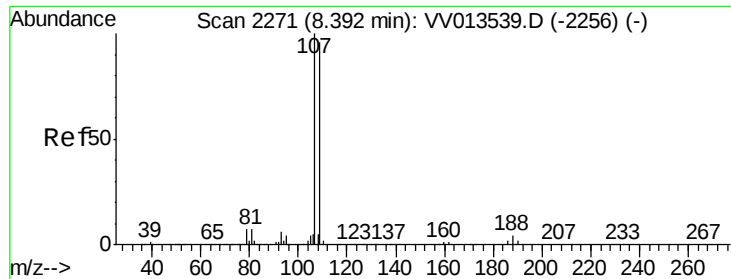
MMDadoda
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#49
Dibromochloromethane
Concen: 0.395 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. 0.00 min
Lab File: VV013531.D
Acq: 08 Nov 2019 09:57

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	74.9	54.7	101.7	





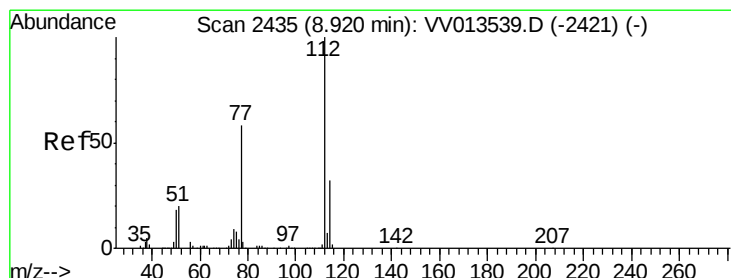
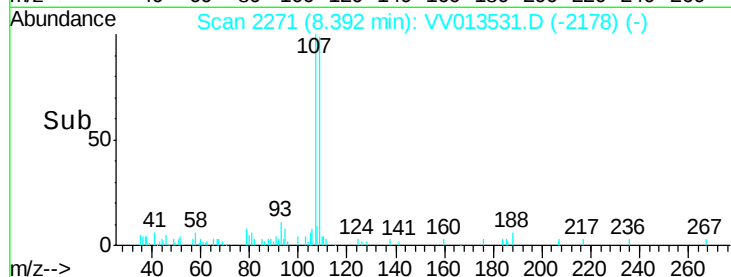
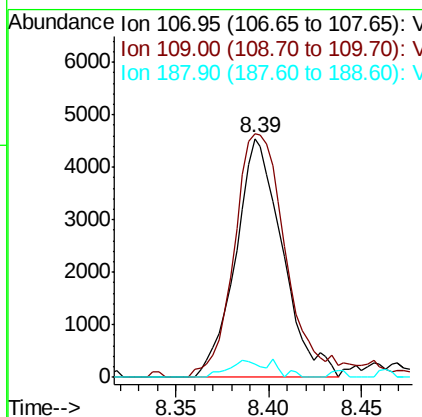
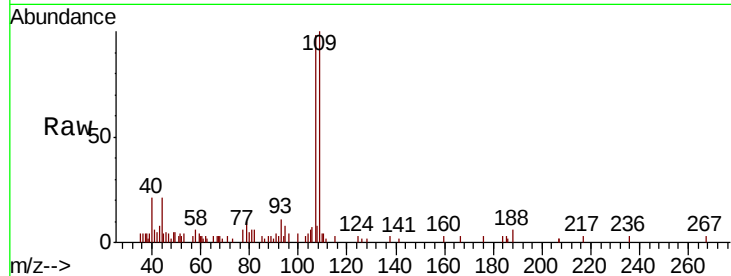
#50
 1,2-Dibromoethane
 Concen: 0.344 ug/L
 RT: 8.39 min Scan# 2271
 Delta R.T. 0.00 min
 Lab File: VV013531.D
 Acq: 08 Nov 2019 09:57

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD0.535

Tot Ion	Ratio	Resp	Lower	Upper
107	100	7943		
109	102.0	66.9	124.3	
188	5.7	3.4	5.0#	

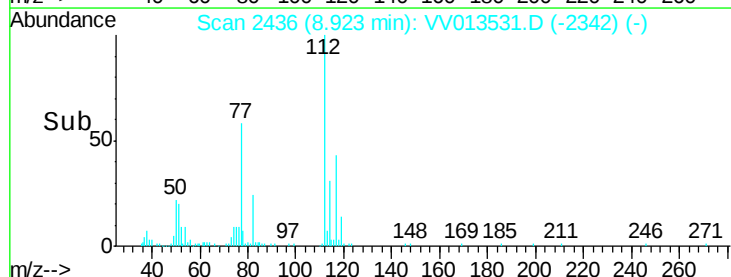
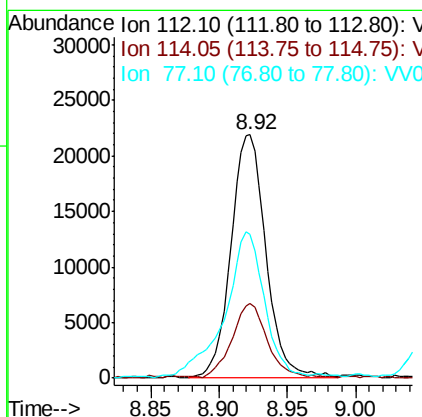
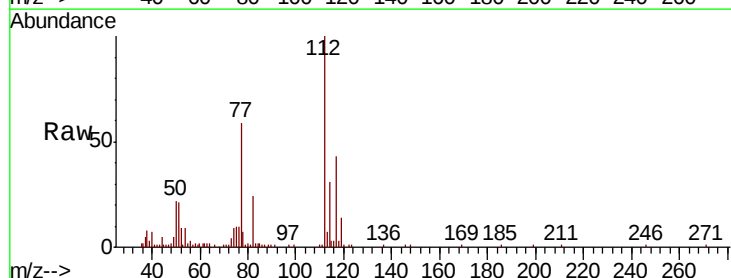
Manual Integrations
 APPROVED

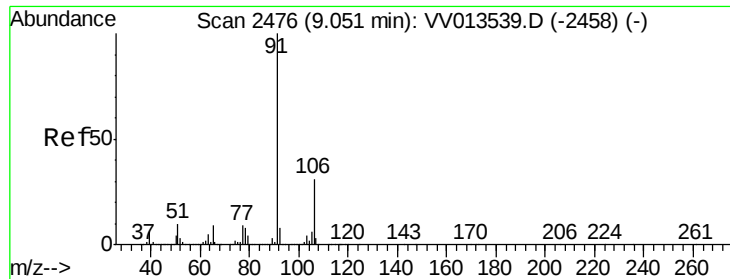
MMDadoda
 11/11/2019 3:33:48 PM



#51
 Chlorobenzene
 Concen: 0.401 ug/L
 RT: 8.92 min Scan# 2436
 Delta R.T. 0.00 min
 Lab File: VV013531.D
 Acq: 08 Nov 2019 09:57

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	39135		
114	30.7	22.6	42.0	
77	58.8	46.2	69.2	





#52

Ethylbenzene

Concen: 0.344 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. 0.00 min

Lab File: VV013531.D

Acq: 08 Nov 2019 09:57

Instrument :

MSVOA_V

ClientSampleId :

VSTD0.535

Tot Ion: 91 Resp: 54449

Ion Ratio Lower Upper

91 100

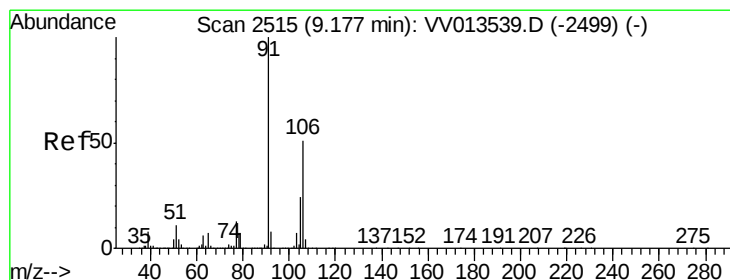
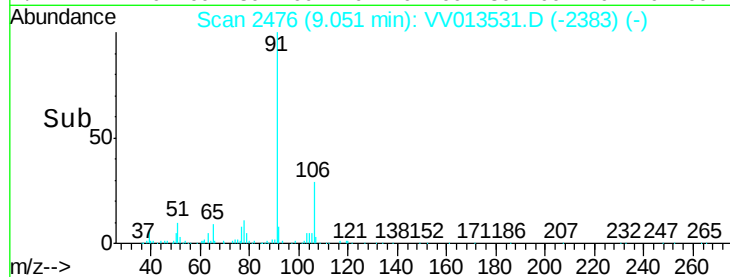
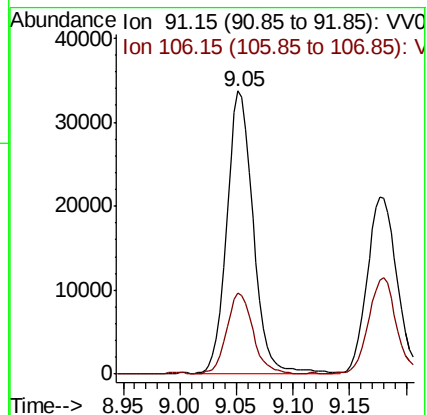
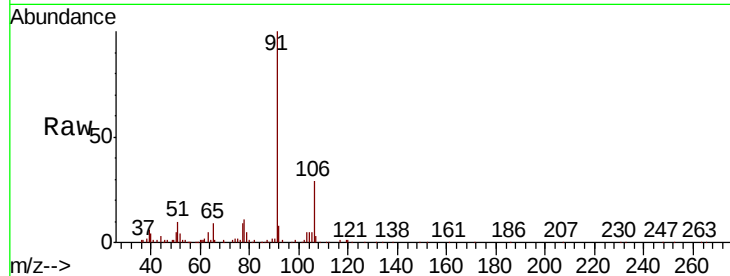
106 28.6 21.6 40.0

Manual Integrations

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#53

m,p-xylene

Concen: 0.328 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV013531.D

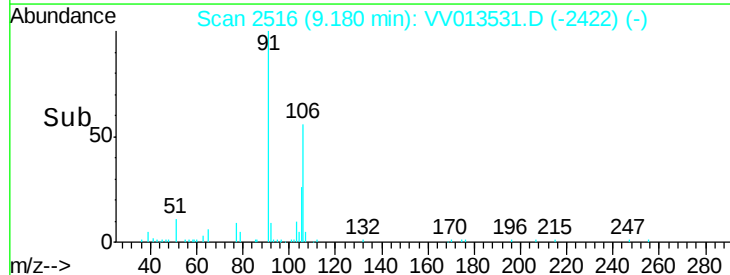
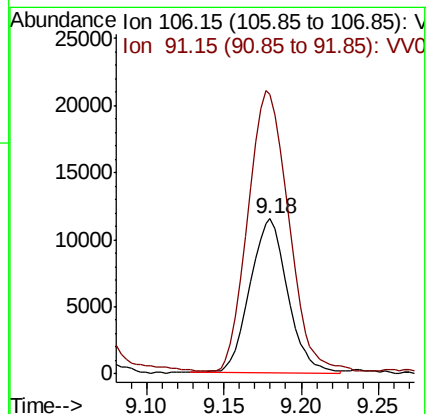
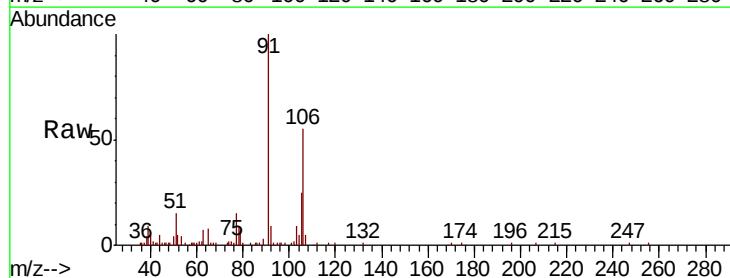
Acq: 08 Nov 2019 09:57

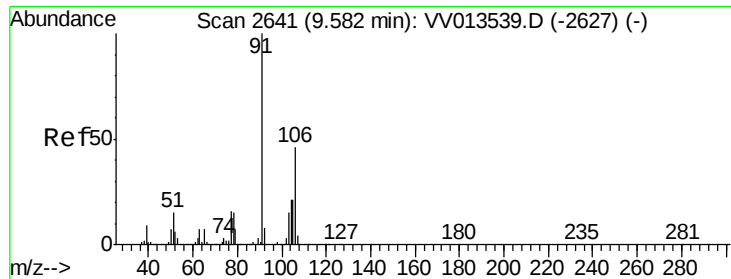
Tgt Ion: 106 Resp: 19494

Ion Ratio Lower Upper

106 100

91 180.9 142.0 263.6





#54

o-xylene

Concen: 0.316 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV013531.D

Acq: 08 Nov 2019 09:57

Instrument :

MSVOA_V

ClientSampleId :

VSTD0.535

Tot Ion:106 Resp: 17767

Ion Ratio Lower Upper

106 100

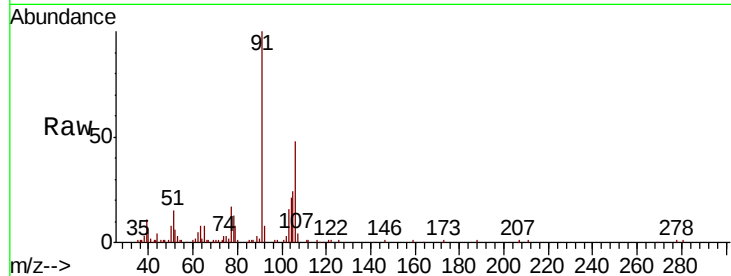
91 209.5 150.8 280.0

Manual Integrations

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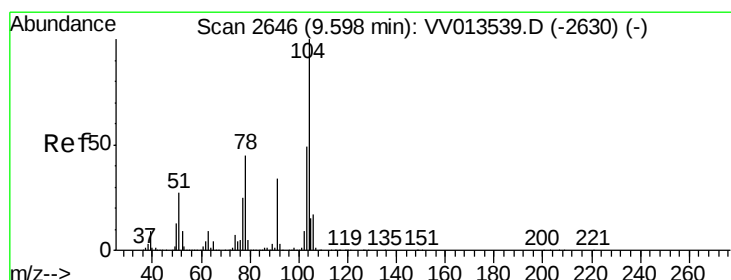
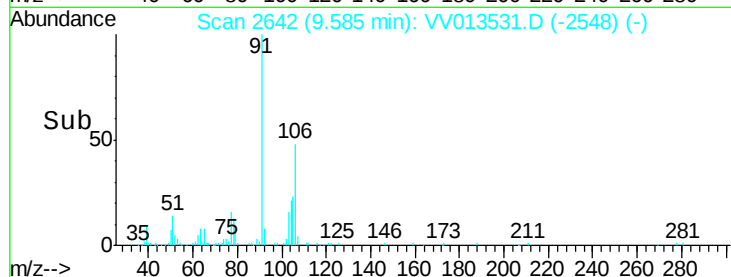
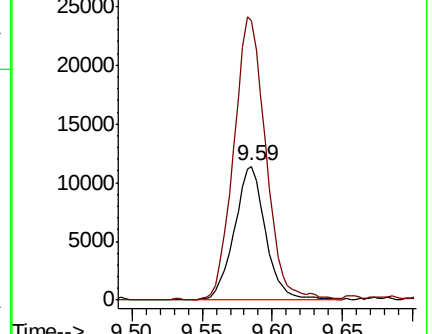
MMDadoda

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Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 0.302 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.01 min

Lab File: VV013531.D

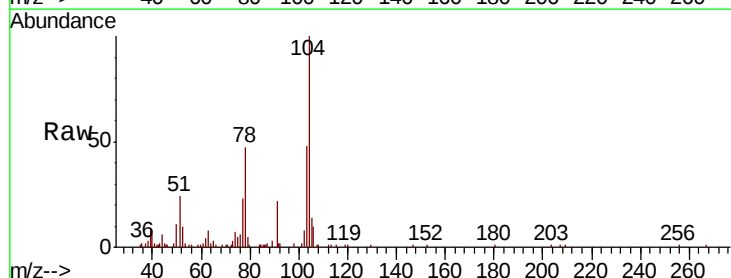
Acq: 08 Nov 2019 09:57

Tgt Ion:104 Resp: 28759

Ion Ratio Lower Upper

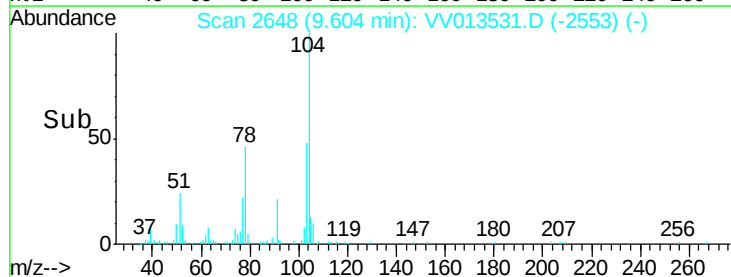
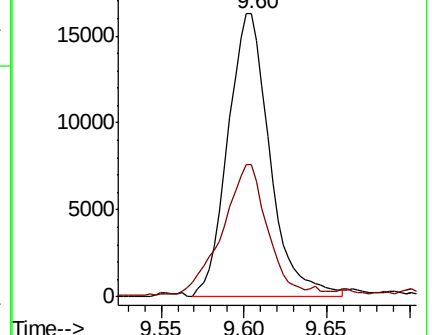
104 100

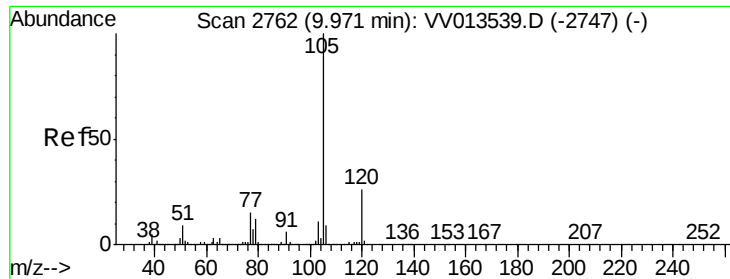
78 47.0 30.8 57.2



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 0.312 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV013531.D

Acq: 08 Nov 2019 09:57

Instrument :

MSVOA_V

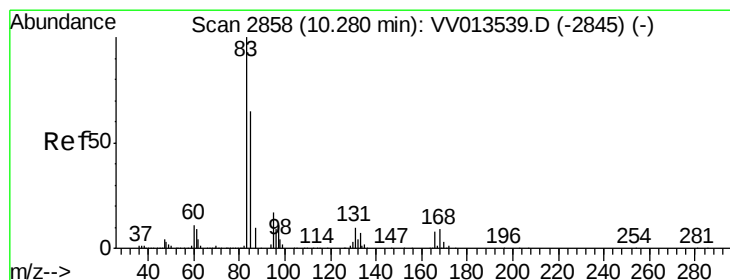
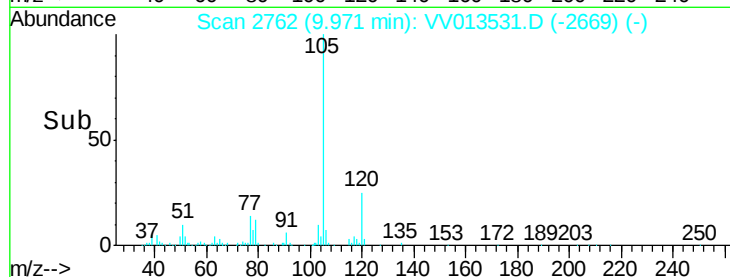
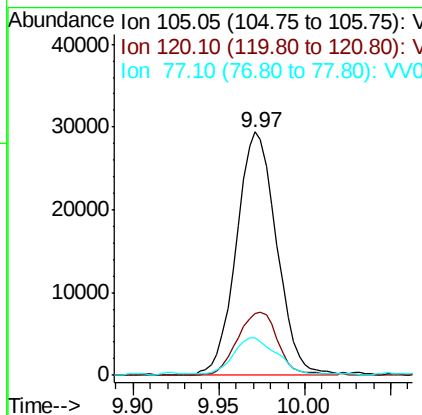
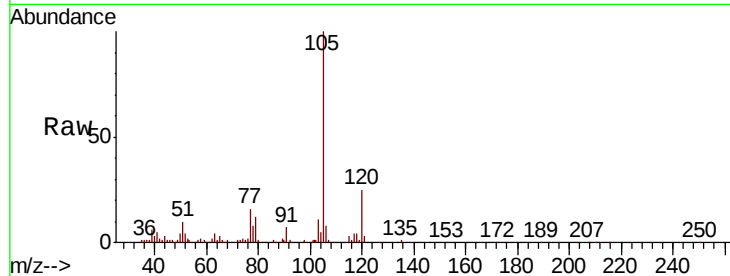
ClientSampleId :

VSTD0.535

Tot Ion:	105	Resp:	47884
Ion Ratio	Lower	Upper	
105	100		
120	26.1	20.9	31.3
77	16.1	12.3	18.5

Manual Integrations
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#58

1,1,2,2-Tetrachloroethane

Concen: 0.396 ug/L

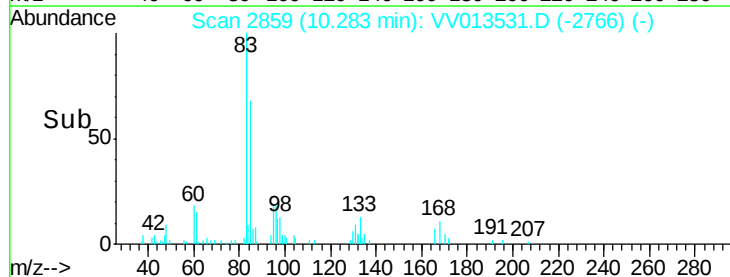
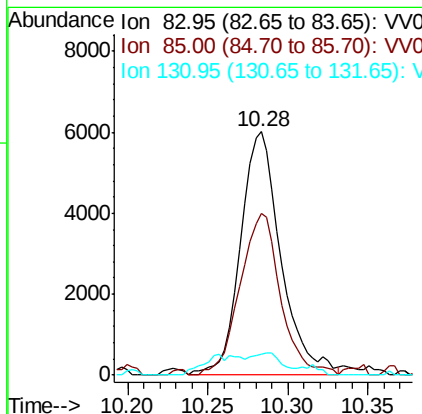
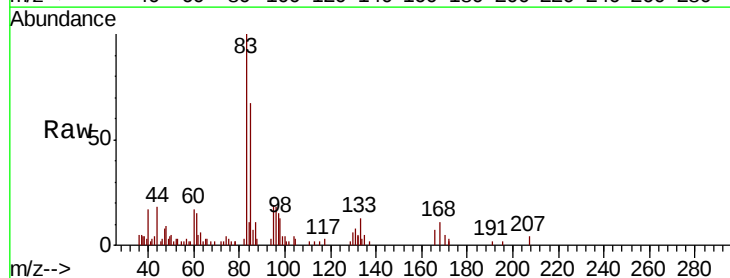
RT: 10.28 min Scan# 2859

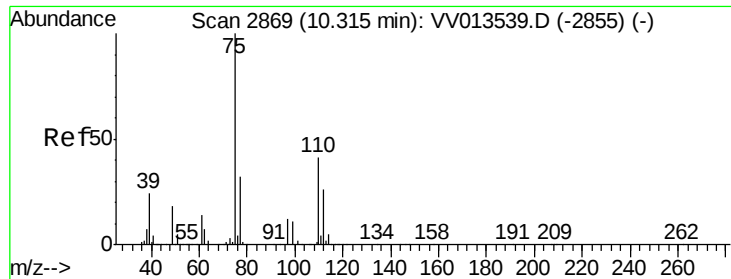
Delta R.T. 0.00 min

Lab File: VV013531.D

Acq: 08 Nov 2019 09:57

Tgt Ion:	83	Resp:	10362
Ion Ratio	Lower	Upper	
83	100		
85	66.6	44.1	81.9
131	8.4	8.5	12.7#





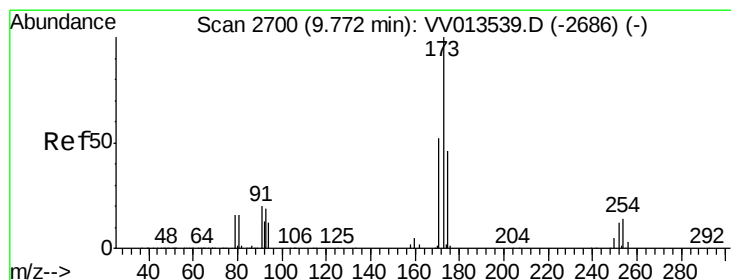
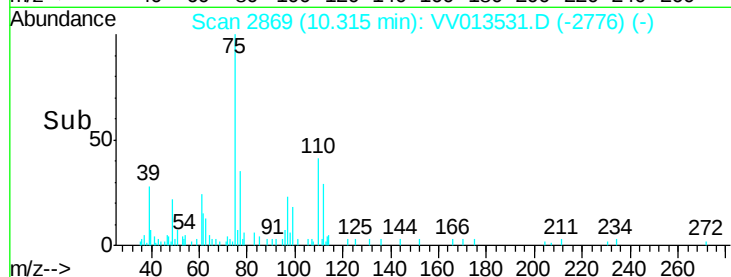
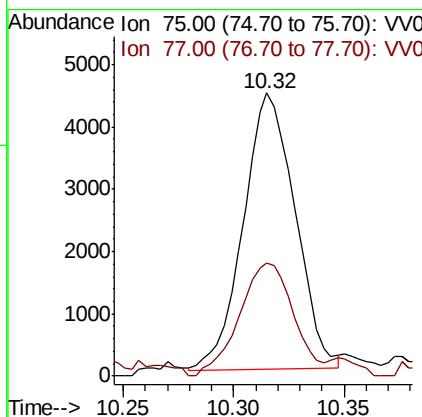
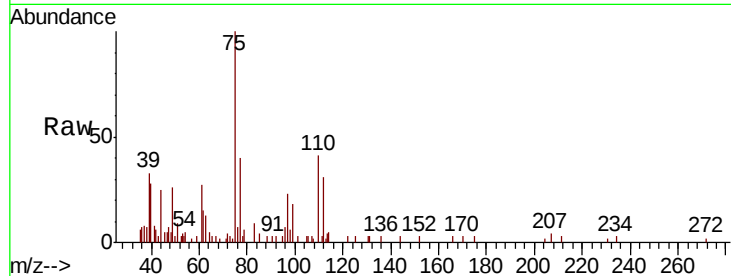
#59
 1,2,3-Trichloropropane
 Concen: 0.346 ug/L
 RT: 10.32 min Scan# 2869
 Delta R.T. 0.00 min
 Lab File: VV013531.D
 Acq: 08 Nov 2019 09:57

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD0.535

Tot Ion: 75 Resp: 7240
 Ion Ratio Lower Upper
 75 100
 77 42.7 26.3 39.5#

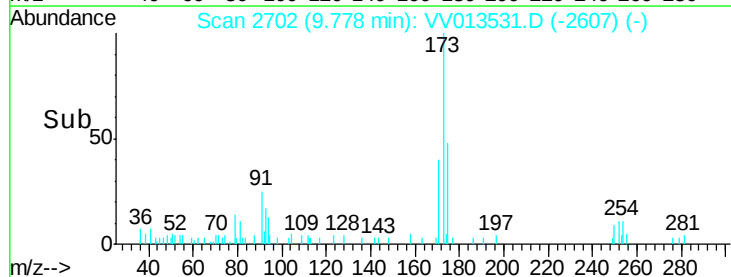
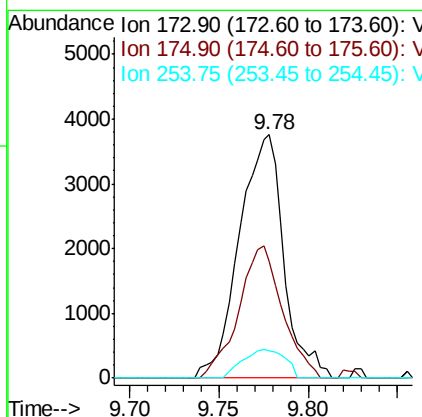
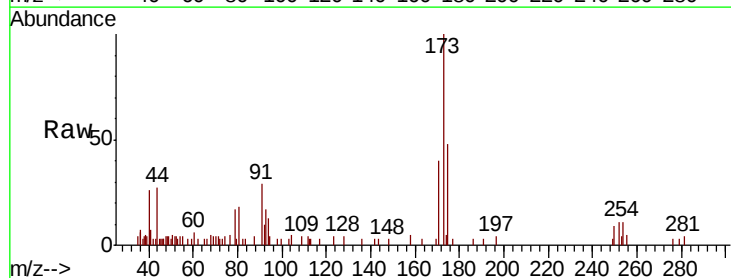
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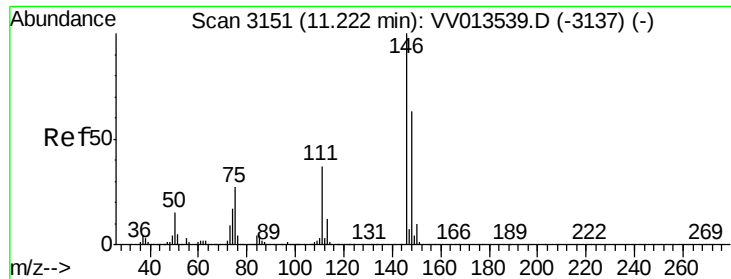
MMDadoda
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#61
 Bromoform
 Concen: 0.418 ug/L
 RT: 9.78 min Scan# 2702
 Delta R.T. 0.01 min
 Lab File: VV013531.D
 Acq: 08 Nov 2019 09:57

Tgt Ion: 173 Resp: 6517
 Ion Ratio Lower Upper
 173 100
 175 53.4 38.8 58.2
 254 11.2 11.2 16.8





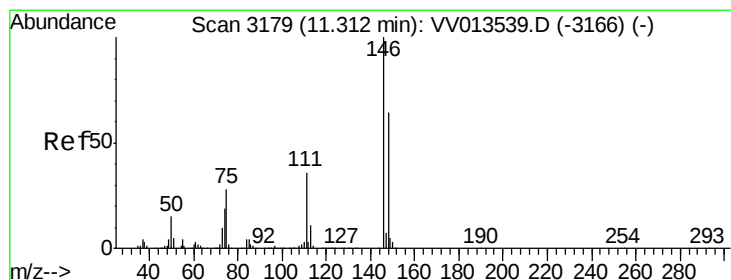
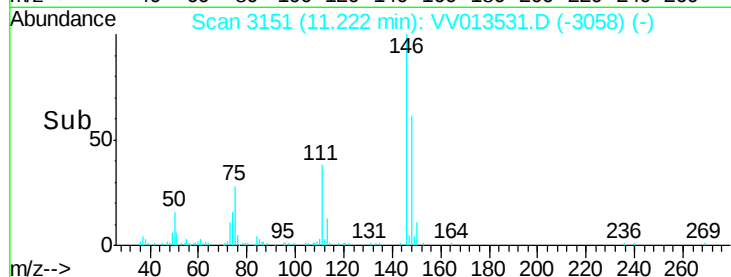
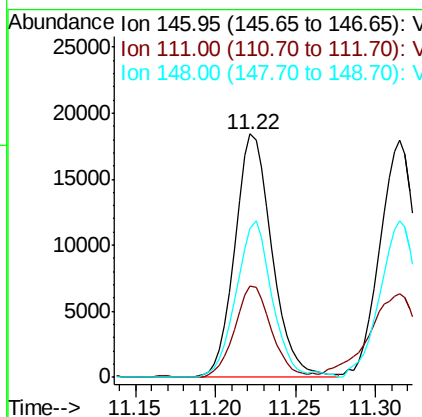
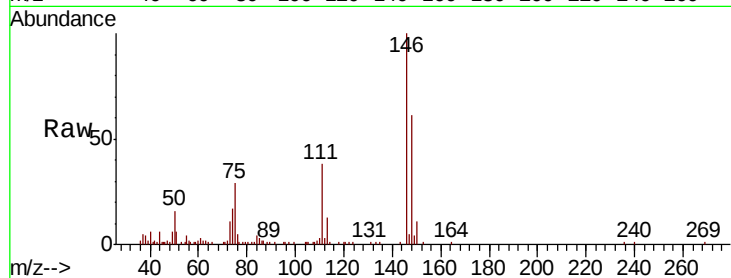
#62
 1,3-Dichlorobenzene
 Concen: 0.410 ug/L
 RT: 11.22 min Scan# 3151
 Delta R.T. 0.00 min
 Lab File: VV013531.D
 Acq: 08 Nov 2019 09:57

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD0.535

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.6	26.2	48.6
148	61.4	44.2	82.0

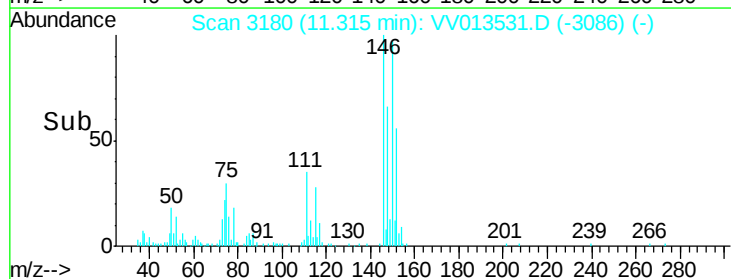
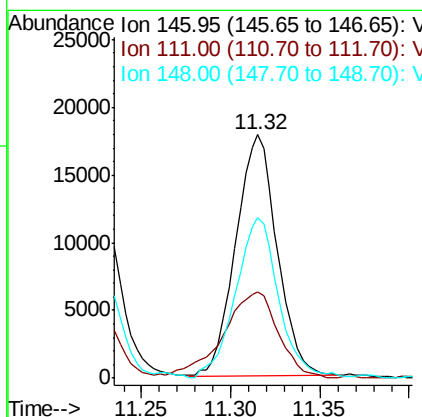
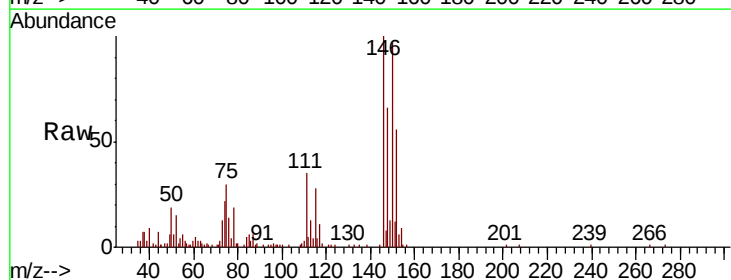
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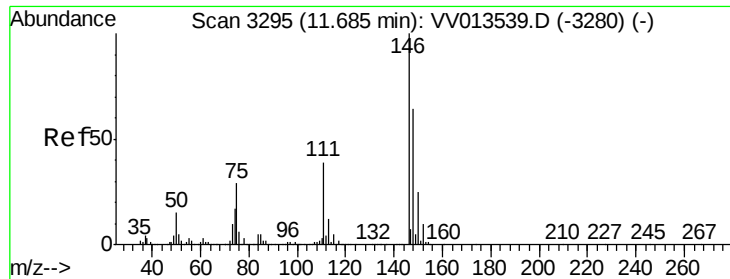
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#63
 1,4-Dichlorobenzene
 Concen: 0.413 ug/L
 RT: 11.32 min Scan# 3180
 Delta R.T. 0.00 min
 Lab File: VV013531.D
 Acq: 08 Nov 2019 09:57

Tgt Ion	Ratio	Lower	Upper
146	100		
111	35.4	25.2	46.8
148	65.9	44.7	82.9





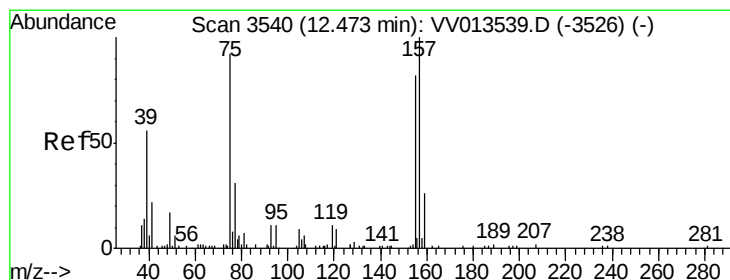
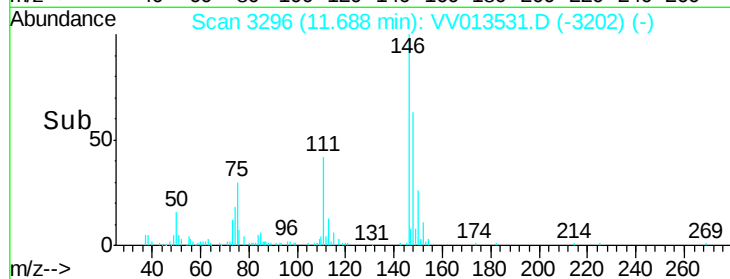
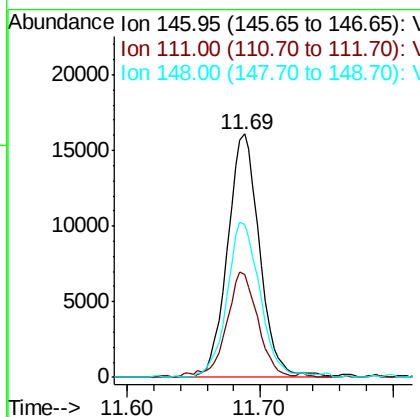
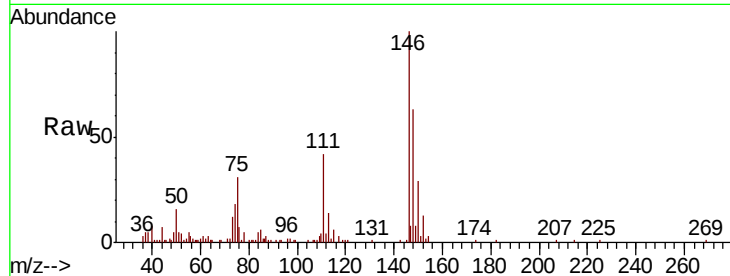
#65
 1,2-Dichlorobenzene
 Concen: 0.424 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. 0.00 min
 Lab File: VV013531.D
 Acq: 08 Nov 2019 09:57

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD0.535

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.1	31.2	46.8
148	62.9	49.4	74.2

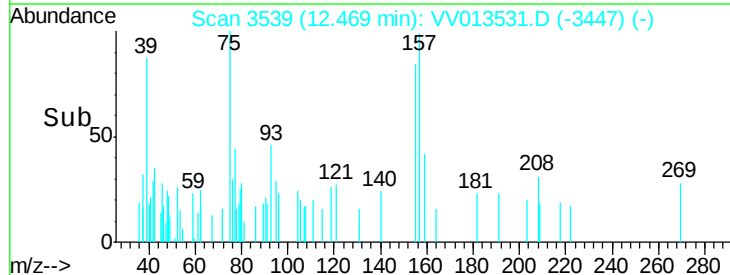
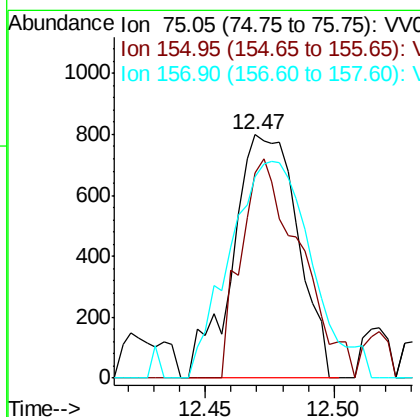
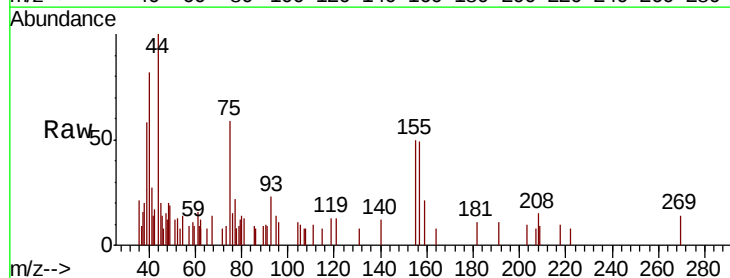
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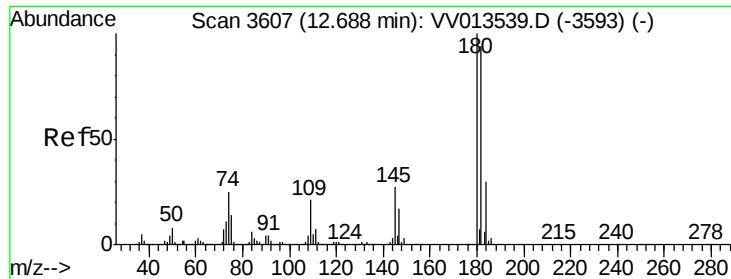
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#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.412 ug/L
 RT: 12.47 min Scan# 3539
 Delta R.T. -0.00 min
 Lab File: VV013531.D
 Acq: 08 Nov 2019 09:57

Tgt Ion	Ratio	Lower	Upper
75	100		
155	84.5	75.0	112.6
157	82.5	92.2	138.4#





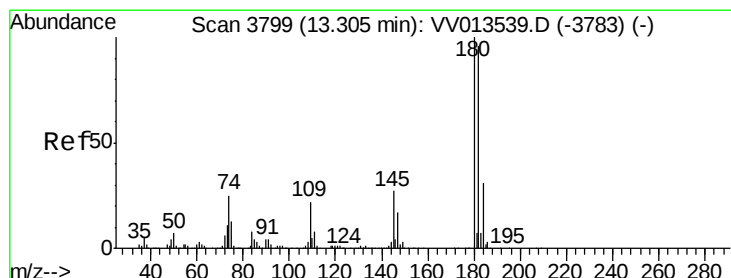
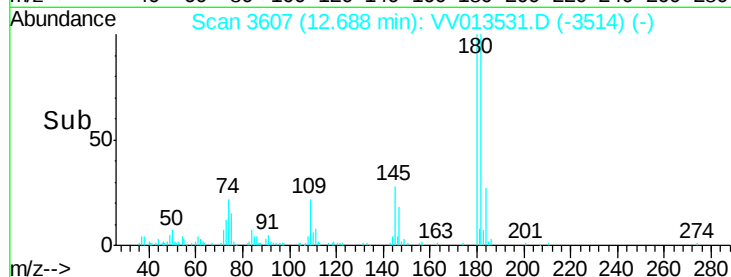
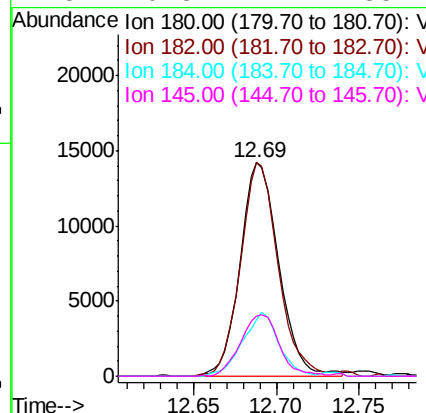
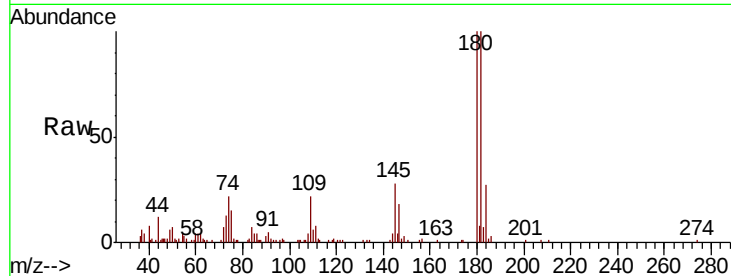
#67
 1,3,5-Trichlorobenzene
 Concen: 0.425 ug/L
 RT: 12.69 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VV013531.D
 Acq: 08 Nov 2019 09:57

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD0.535

Tot Ion:	180	Resp:	23023
Ion Ratio	Lower	Upper	
180	100		
182	97.3	76.8	115.2
184	28.0	25.0	37.6
145	29.3	22.1	33.1

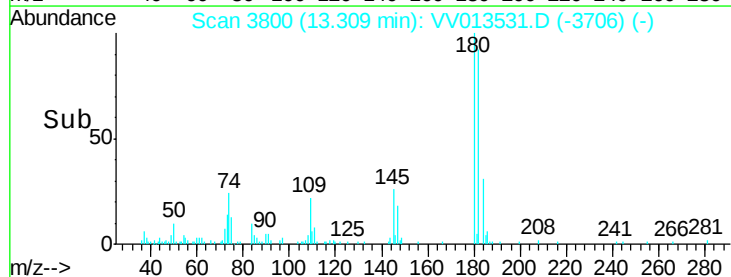
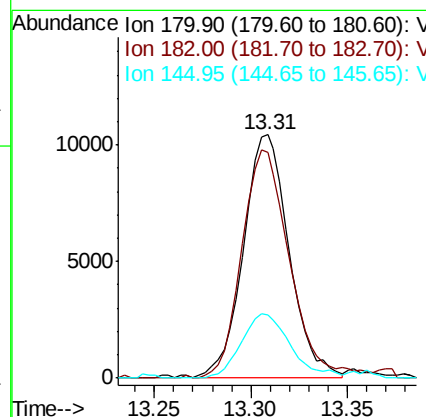
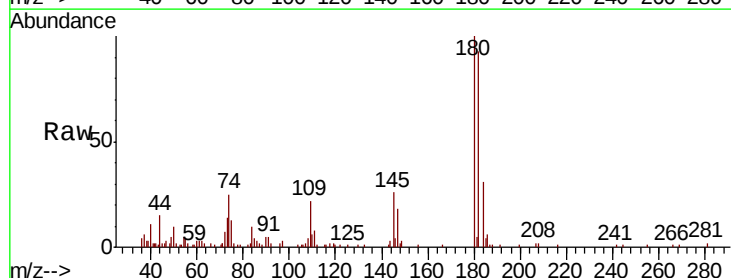
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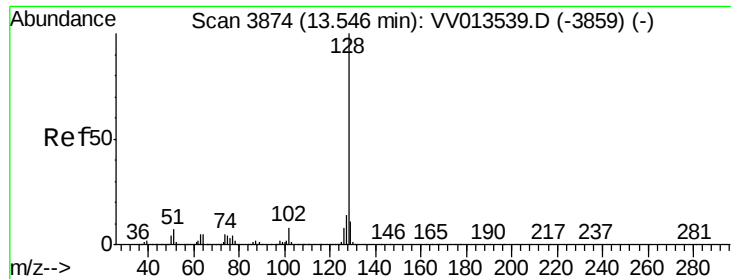
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#68
 1,2,4-trichlorobenzene
 Concen: 0.418 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV013531.D
 Acq: 08 Nov 2019 09:57

Tgt Ion:	180	Resp:	17178
Ion Ratio	Lower	Upper	
180	100		
182	98.4	76.6	115.0
145	28.4	22.2	33.4





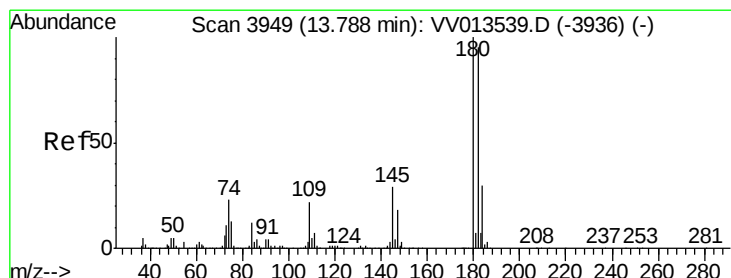
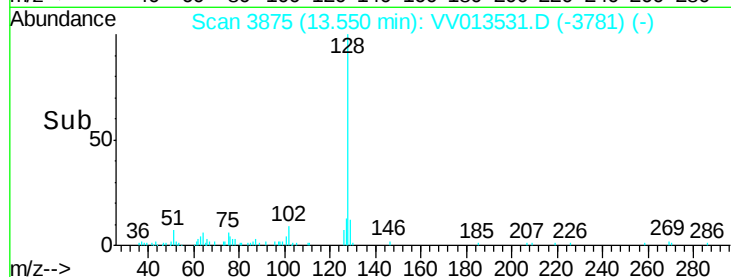
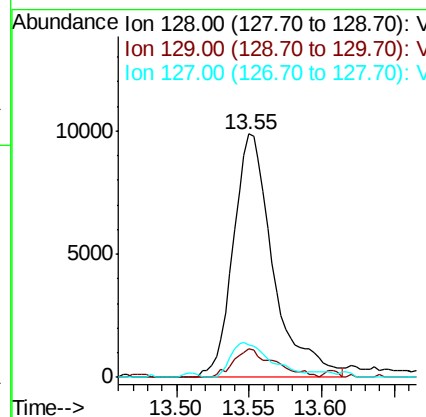
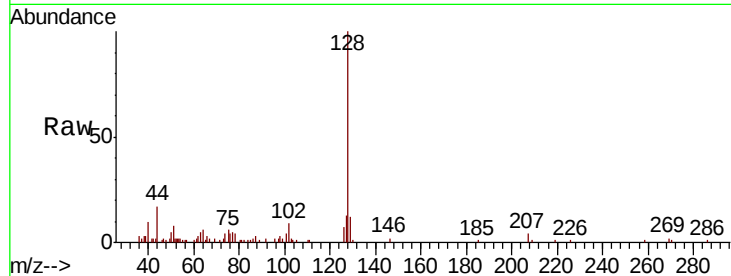
#69
Naphthalene
Concen: 0.340 ug/L
RT: 13.55 min Scan# 3875
Delta R.T. 0.00 min
Lab File: VV013531.D
Acq: 08 Nov 2019 09:57

Instrument :
MSVOA_V
ClientSampleId :
VSTD0.535

Tot Ion	Ratio	Lower	Upper
128	100		
129	12.0	8.5	12.7
127	14.3	10.7	16.1

Manual Integrations
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11/11/2019 3:33:48 PM



#70
1,2,3-Trichlorobenzene
Concen: 0.392 ug/L
RT: 13.79 min Scan# 3950
Delta R.T. 0.00 min
Lab File: VV013531.D
Acq: 08 Nov 2019 09:57

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.2	114.4
145	27.4	23.2	34.8

