

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV100219\
 Data File : VV013027.D
 Acq On : 02 Oct 2019 11:50
 Operator : SY/MD
 Sample : MDL03
 Misc : 5.00G/10ML/MSVOA V/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Manual Integrations
 APPROVED

MMDadoda
 10/9/2019 3:10:42 PM

Quant Time: Oct 03 04:14:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM093019SMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 03 03:55:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	628411	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	639921	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	324708	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	206268	22.94	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	91.76%
7) Chloroethane-d5	1.58	69	174231	23.11	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	92.44%
11) 1,1-Dichloroethene-d2	2.13	63	288313	18.62	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	74.48%
21) 2-Butanone-d5	3.94	46	198303	62.47	ug/L	-0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	124.94%
24) Chloroform-d	4.40	84	414640	24.50	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	98.00%
26) 1,2-Dichloroethane-d4	5.08	65	254890	26.47	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	105.88%
32) Benzene-d6	5.10	84	851508	24.12	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	96.48%
36) 1,2-Dichloropropane-d6	6.12	67	276045	24.95	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	99.80%
41) Toluene-d8	7.36	98	767990	23.82	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	95.28%
43) trans-1,3-Dichloropropene-	7.66	79	109901	23.67	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	94.68%
47) 2-Hexanone-d5	8.13	63	135232	57.97	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	115.94%
56) 1,1,2,2-Tetrachloroethane-	10.26	84	274825	26.55	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	106.20%
66) 1,2-Dichlorobenzene-d4	11.67	152	324462	25.91	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	103.64%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	9694m	1.440	ug/L	
3) Chloromethane	1.25	50	15856	1.850	ug/L	96
5) Vinyl chloride	1.32	62	16088	1.822	ug/L #	79
6) Bromomethane	1.53	94	10277	1.811	ug/L	86
8) Chloroethane	1.60	64	11256	2.016	ug/L	100
9) Trichlorofluoromethane	1.77	101	22643	1.893	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	15716	2.050	ug/L	90
12) 1,1-Dichloroethene	2.14	96	15991	2.220	ug/L #	1
13) Acetone	2.20	43	18191	5.437	ug/L	90
14) Carbon disulfide	2.32	76	36971	1.673	ug/L #	92
15) Methyl Acetate	2.47	43	11062	2.143	ug/L	98
16) Methylene chloride	2.54	84	30332	2.947	ug/L	97
17) trans-1,2-Dichloroethene	2.79	96	16237	1.913	ug/L	92
18) Methyl tert-butyl Ether	2.80	73	41083	1.924	ug/L	98
19) 1,1-Dichloroethane	3.23	63	30664	1.968	ug/L	98
20) cis-1,2-Dichloroethene	3.96	96	18144	1.922	ug/L	96
22) 2-Butanone	4.04	43	12935m	3.527	ug/L	

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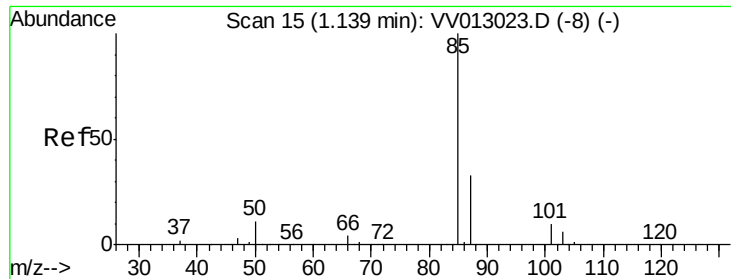
Manual Integrations
 APPROVED

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Quant Time: Oct 03 04:14:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM093019SMA.M
 Quant Title : VOC Analysis
 QLast Update : Thu Oct 03 03:55:32 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	8874	1.917	ug/L	86
25) Chloroform	4.42	83	38675	2.381	ug/L	99
27) 1,2-Dichloroethane	5.18	62	22907	2.051	ug/L	100
29) Cyclohexane	4.72	56	22083	1.568	ug/L	95
30) 1,1,1-Trichloroethane	4.66	97	23711	1.814	ug/L	98
31) Carbon tetrachloride	4.87	117	21035	1.788	ug/L	100
33) Benzene	5.15	78	69419m	1.897	ug/L	
34) Trichloroethene	5.96	95	18359	1.852	ug/L	94
35) Methylcyclohexane	6.18	83	23436	1.507	ug/L	96
37) 1,2-Dichloropropane	6.22	63	17392	1.853	ug/L	98
38) Bromodichloromethane	6.55	83	23568	1.923	ug/L	98
39) cis-1,3-Dichloropropene	7.07	75	24741	1.750	ug/L	99
40) 4-Methyl-2-pentanone	7.28	43	32797	4.371	ug/L	98
42) Toluene	7.43	91	73999	1.902	ug/L	97
44) trans-1,3-Dichloropropene	7.69	75	23086m	1.989	ug/L	
45) 1,1,2-Trichloroethane	7.88	97	16430	2.063	ug/L	97
46) Tetrachloroethene	8.02	164	15277	1.863	ug/L	95
48) 2-Hexanone	8.19	43	25112	4.597	ug/L	96
49) Dibromochloromethane	8.29	129	17252	1.900	ug/L	95
50) 1,2-Dibromoethane	8.40	107	15413	1.962	ug/L #	99
51) Chlorobenzene	8.92	112	49800	1.887	ug/L	98
52) Ethylbenzene	9.05	91	71607	1.675	ug/L	99
53) m,p-Xylene	9.18	106	26041	1.594	ug/L	98
54) o-Xylene	9.59	106	23927	1.531	ug/L	98
55) Styrene	9.60	104	41542	1.518	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.28	83	20973	2.160	ug/L	99
59) Bromoform	9.77	173	11317	2.035	ug/L	97
60) Isopropylbenzene	9.97	105	60444	1.545	ug/L	96
61) 1,2,3-Trichloropropane	10.32	75	16312	2.207	ug/L	97
62) 1,3,5-Trimethylbenzene	10.58	105	47213	1.497	ug/L	99
63) 1,2,4-Trimethylbenzene	10.95	105	46201	1.459	ug/L	99
64) 1,3-Dichlorobenzene	11.23	146	37812	1.841	ug/L	99
65) 1,4-Dichlorobenzene	11.32	146	40880	1.895	ug/L	93
67) 1,2-Dichlorobenzene	11.69	146	40406	2.060	ug/L	96
68) 1,2-Dibromo-3-chloropropan	12.47	75	3535	2.205	ug/L	91
69) 1,3,5-Trichlorobenzene	12.69	180	29855	1.805	ug/L	99
70) 1,2,4-trichlorobenzene	13.31	180	24757	1.731	ug/L	99
71) Naphthalene	13.55	128	42182	1.514	ug/L	98
72) 1,2,3-Trichlorobenzene	13.79	180	22654	1.642	ug/L	93

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



#2

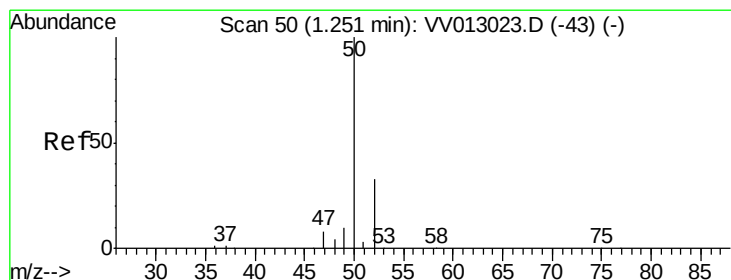
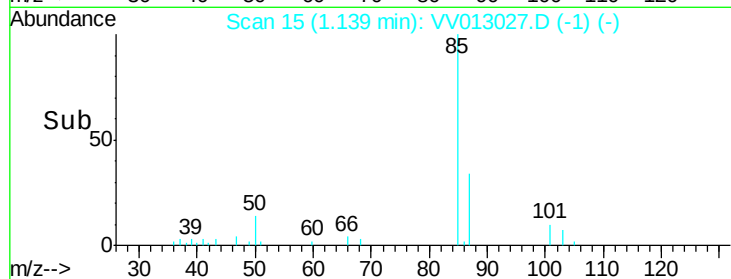
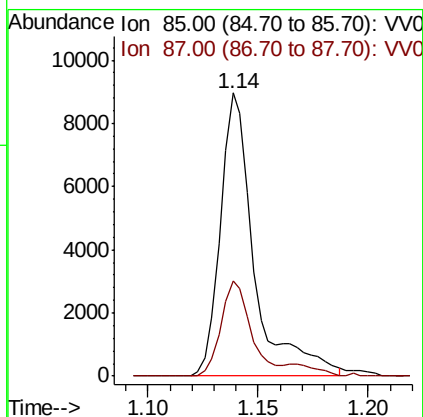
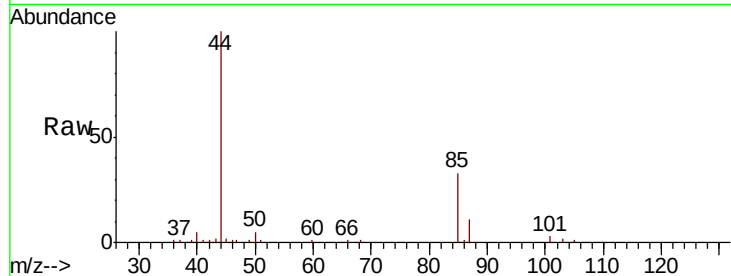
Dichlorodifluoromethane
Concen: 1.440 ug/L m
RT: 1.14 min Scan# 15
Delta R.T. -0.00 min
Lab File: VV013027.D
Acq: 02 Oct 2019 11:50

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tot Ion	85.00	Resp:	9694
Ion	Ratio	Lower	Upper
85	100		
87	29.8	25.7	38.5

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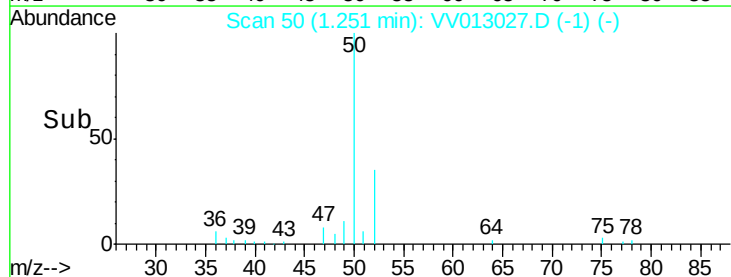
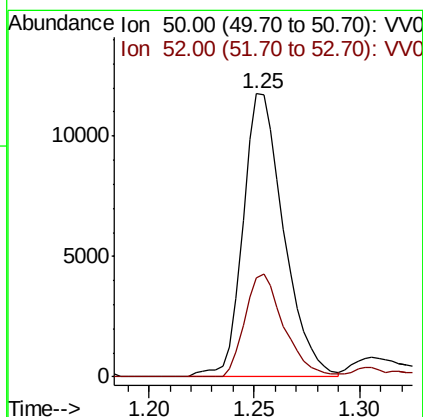
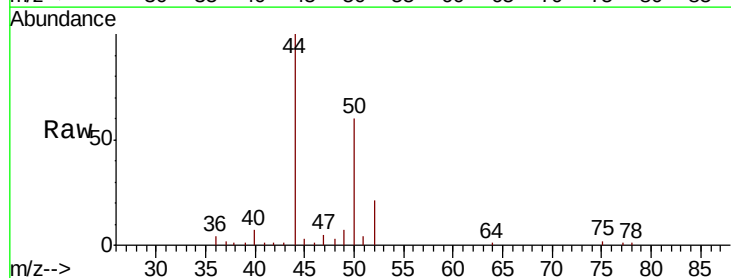
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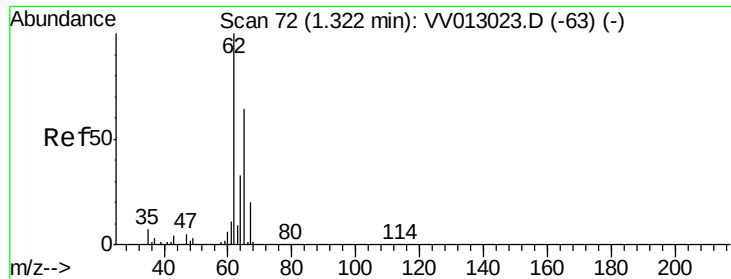


#3

Chloromethane
Concen: 1.850 ug/L
RT: 1.25 min Scan# 50
Delta R.T. -0.00 min
Lab File: VV013027.D
Acq: 02 Oct 2019 11:50

Tgt Ion	50.00	Resp:	15856
Ion	Ratio	Lower	Upper
50	100		
52	35.0	23.1	42.9





#5

Vinyl chloride

Concen: 1.822 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV013027.D

Acq: 02 Oct 2019 11:50

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tot Ion: 62 Resp: 16088

Ion Ratio Lower Upper

62 100

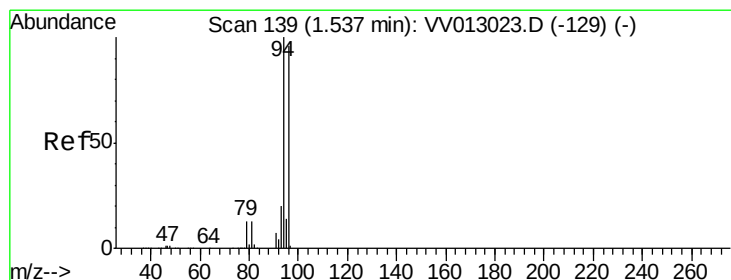
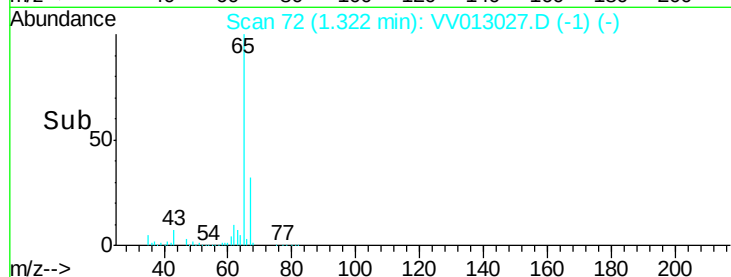
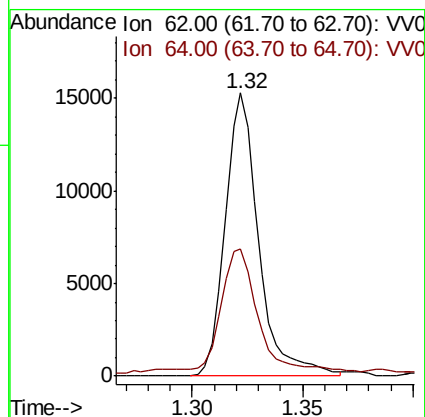
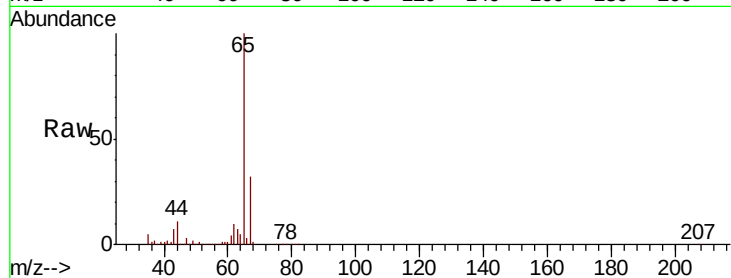
64 44.9 23.1 42.9#

Manual Integrations

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#6

Bromomethane

Concen: 1.811 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV013027.D

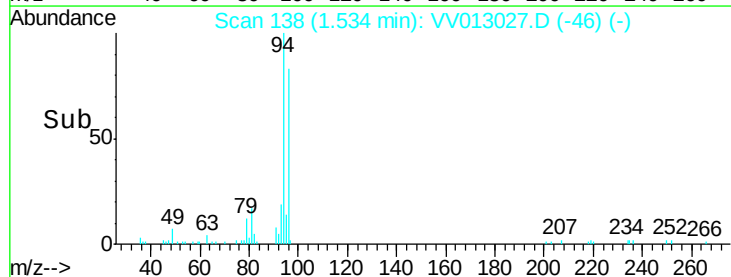
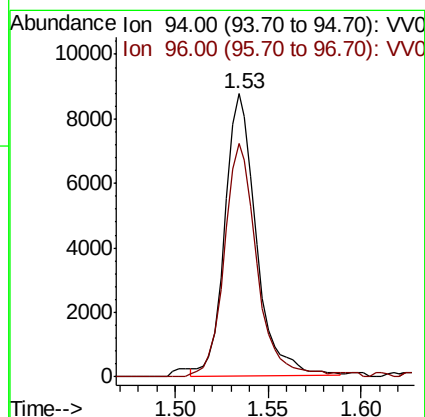
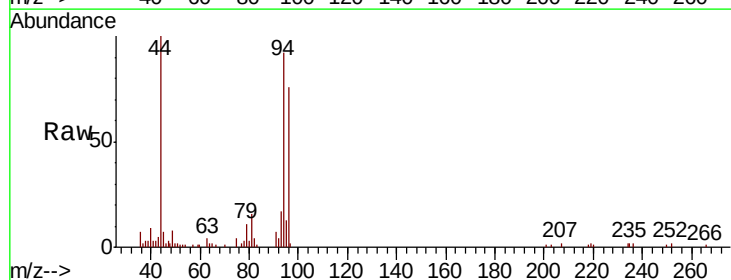
Acq: 02 Oct 2019 11:50

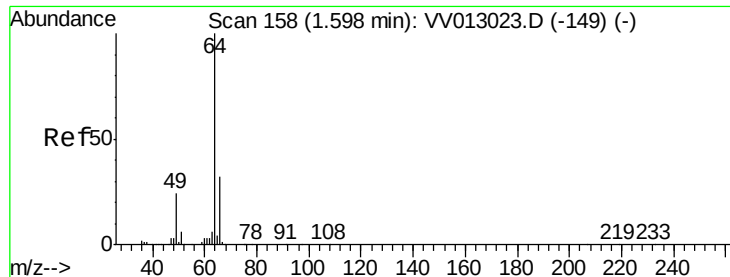
Tgt Ion: 94 Resp: 10277

Ion Ratio Lower Upper

94 100

96 82.7 67.4 125.2





#8

Chloroethane

Concen: 2.016 ug/L

RT: 1.60 min Scan# 158

Delta R.T. -0.00 min

Lab File: VV013027.D

Acq: 02 Oct 2019 11:50

Instrument :

MSVOA_V

ClientSampled :

MDL03

Tot Ion: 64 Resp: 11256

Ion Ratio Lower Upper

64 100

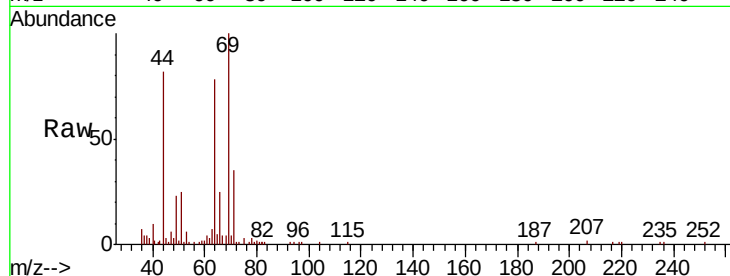
66 32.5 22.8 42.4

Manual Integrations

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Abundance Ion 64.00 (63.70 to 64.70): VV013027.D (-149) (-)

Ion 66.00 (65.70 to 66.70): VV013027.D (-149) (-)

1.60

10000

8000

6000

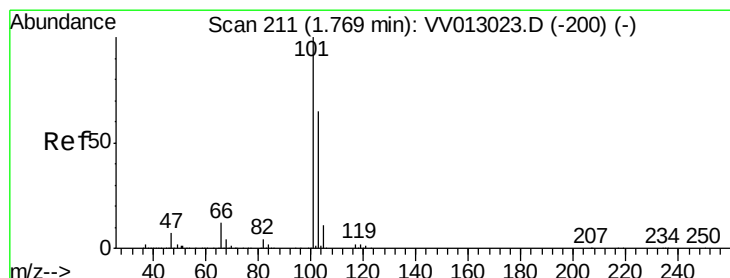
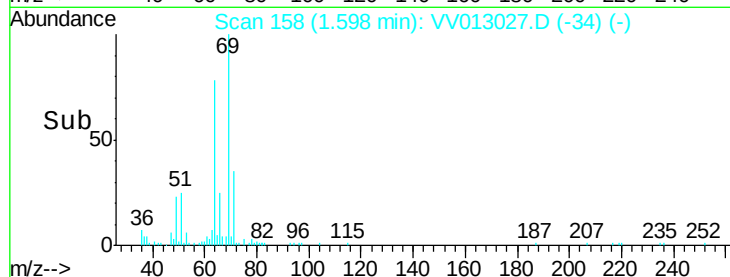
4000

2000

0

1.55 1.60 1.65

Time-->



#9

Trichlorofluoromethane

Concen: 1.893 ug/L

RT: 1.77 min Scan# 211

Delta R.T. -0.00 min

Lab File: VV013027.D

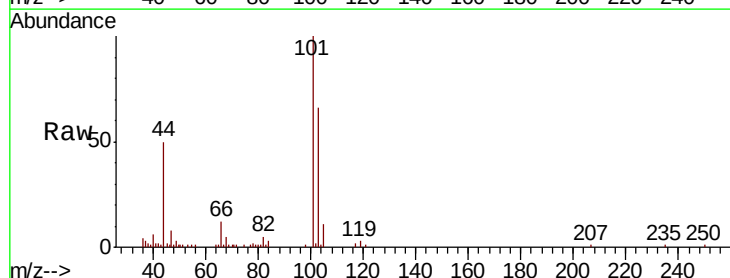
Acq: 02 Oct 2019 11:50

Tgt Ion: 101 Resp: 22643

Ion Ratio Lower Upper

101 100

103 65.7 52.2 78.2



Abundance Ion 101.00 (100.70 to 101.70): VV013027.D (-200) (-)

Ion 103.00 (102.70 to 103.70): VV013027.D (-200) (-)

1.77

20000

15000

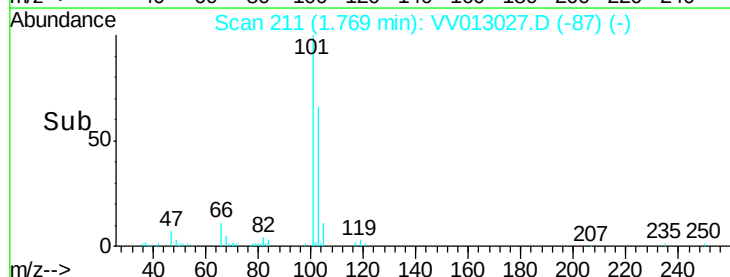
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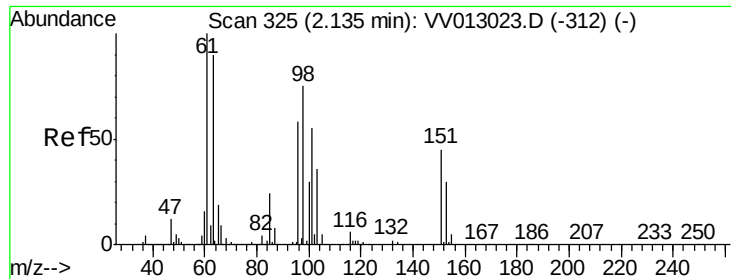
5000

0

1.75 1.80

Time-->





#10

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

Concen: 2.050 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV013027.D

Acq: 02 Oct 2019 11:50

Instrument :

MSVOA_V

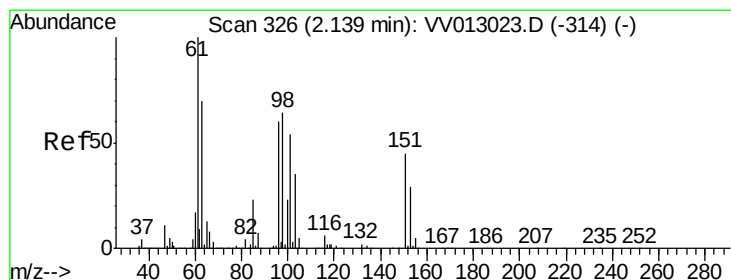
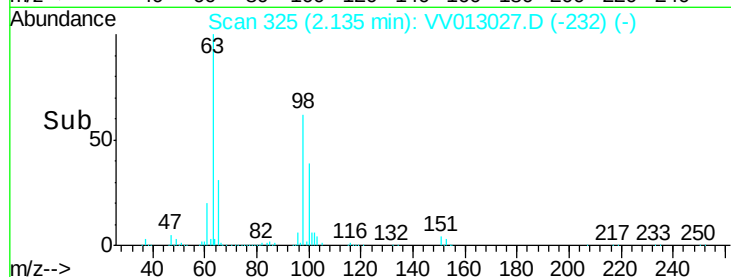
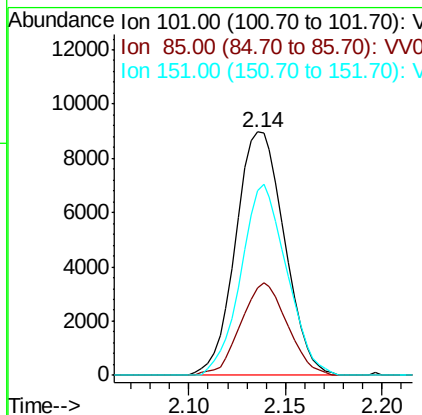
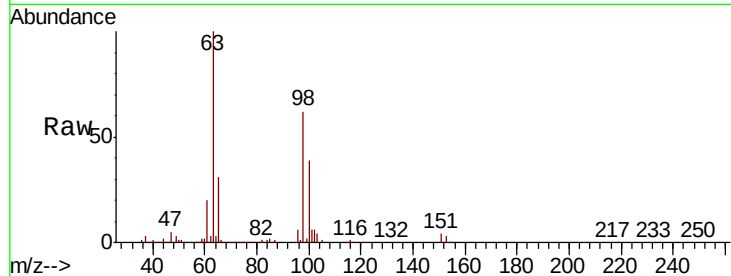
ClientSampleId :

MDL03

Tot Ion:	101	Resp:	15716
Ion Ratio	Lower	Upper	
101	100		
85	36.3	33.6	50.4
151	73.8	66.9	100.3

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#12

1,1-Dichloroethene

Concen: 2.220 ug/L

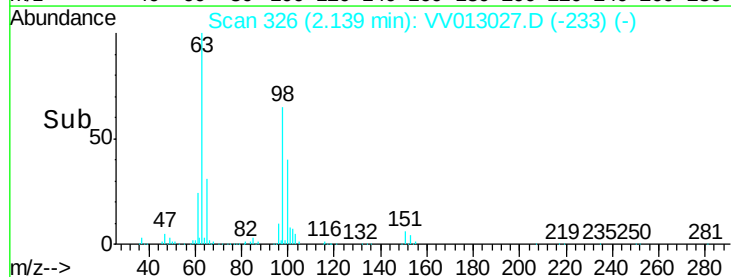
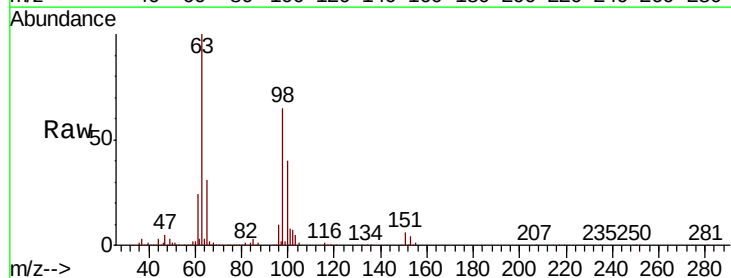
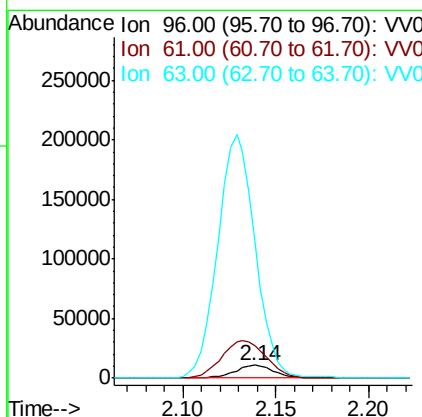
RT: 2.14 min Scan# 326

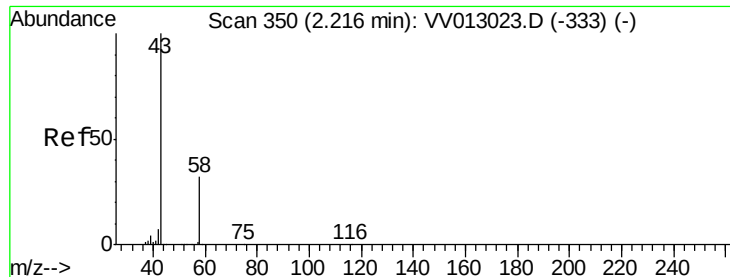
Delta R.T. -0.00 min

Lab File: VV013027.D

Acq: 02 Oct 2019 11:50

Tgt Ion:	96	Resp:	15991
Ion Ratio	Lower	Upper	
96	100		
61	249.8	117.7	218.7#
63	1045.0	90.4	168.0#





#13

Acetone

Concen: 5.437 ug/L

RT: 2.20 min Scan# 345

Delta R.T. -0.02 min

Lab File: VV013027.D

Acq: 02 Oct 2019 11:50

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tot Ion: 43 Resp: 18191

Ion Ratio Lower Upper

43 100

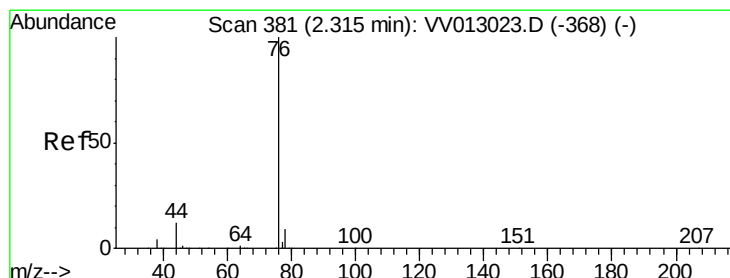
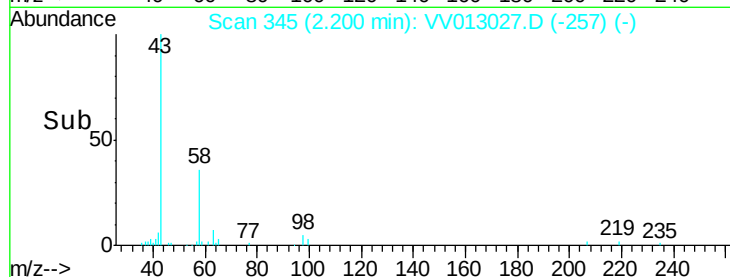
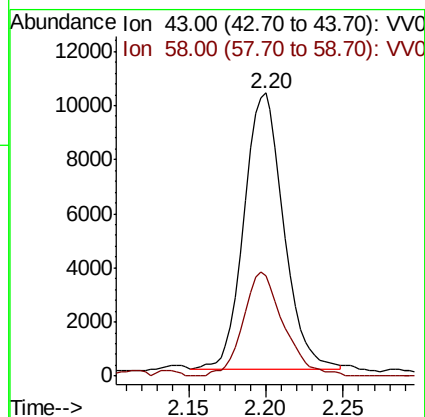
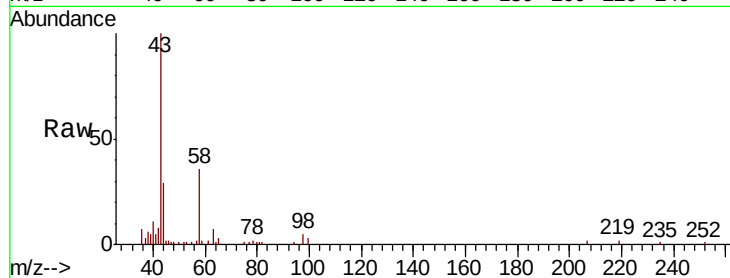
58 38.5 0.0 65.2

Manual Integrations

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#14

Carbon disulfide

Concen: 1.673 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV013027.D

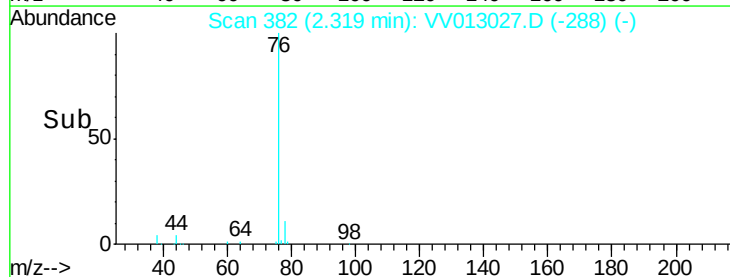
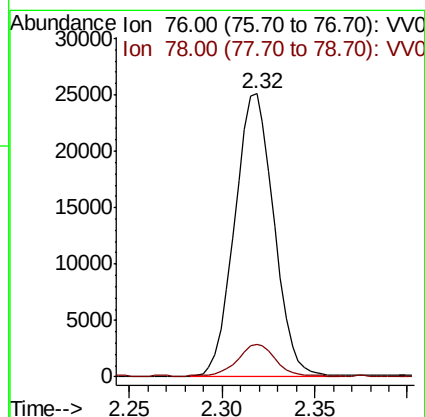
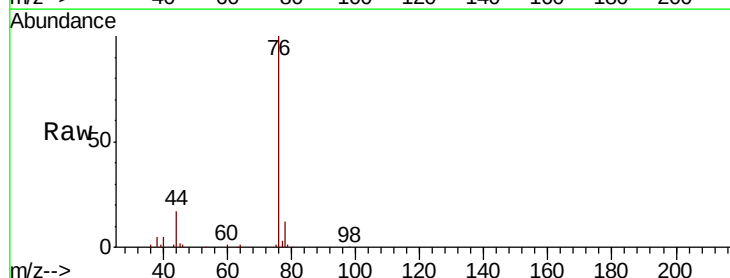
Acq: 02 Oct 2019 11:50

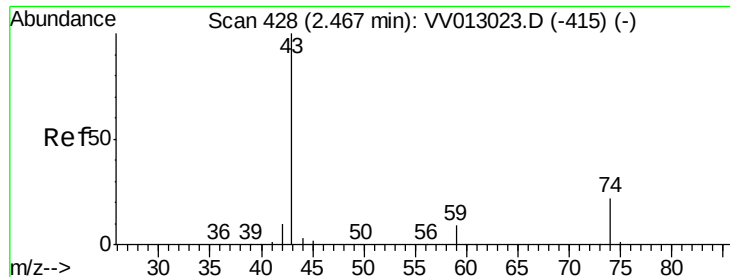
Tgt Ion: 76 Resp: 36971

Ion Ratio Lower Upper

76 100

78 11.6 7.1 10.7#





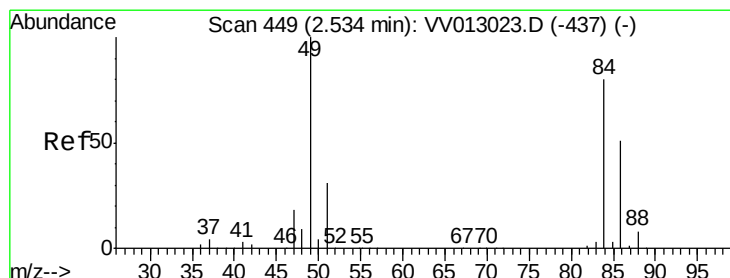
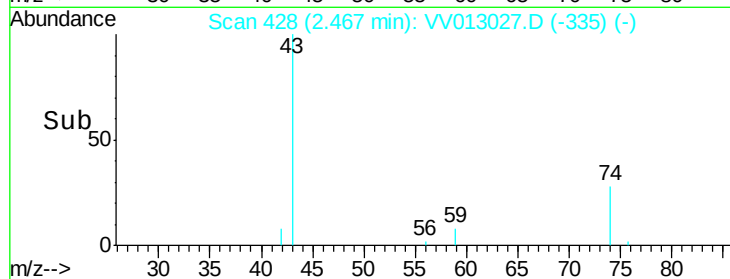
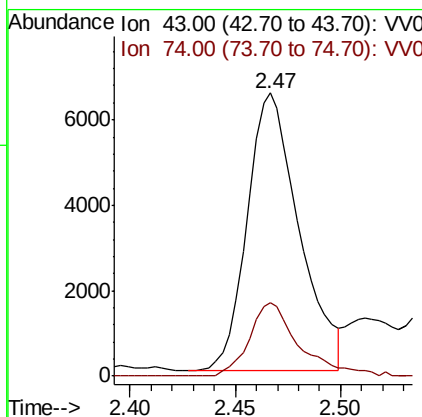
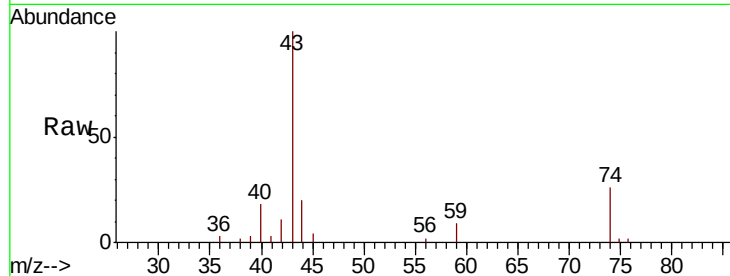
#15
Methvl Acetate
Concen: 2.143 ug/L
RT: 2.47 min Scan# 428
Delta R.T. -0.00 min
Lab File: VV013027.D
Acq: 02 Oct 2019 11:50

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tot Ion: 43 Resp: 11062
Ion Ratio Lower Upper
43 100
74 24.2 18.5 27.7

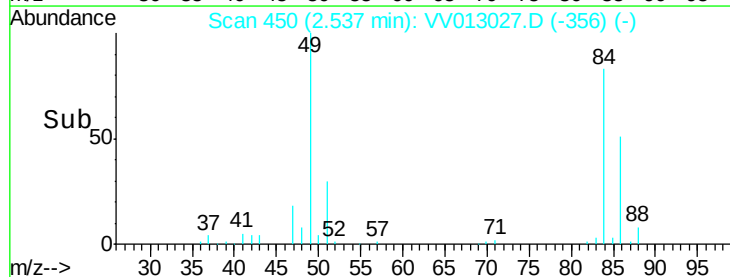
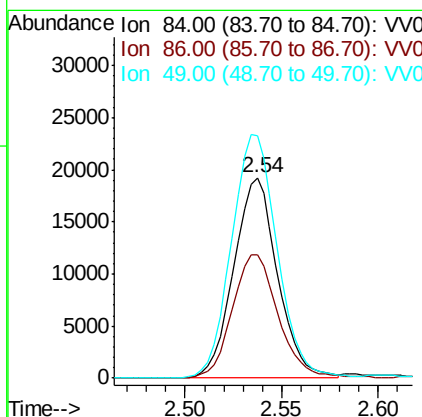
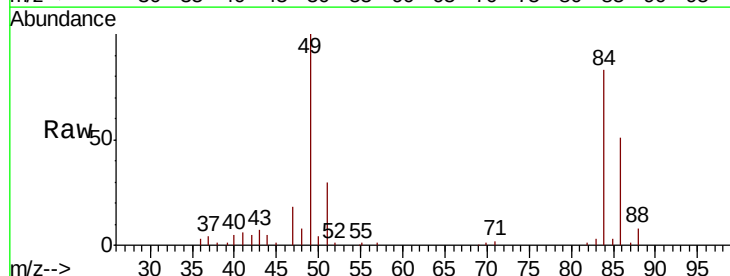
Manual Integrations
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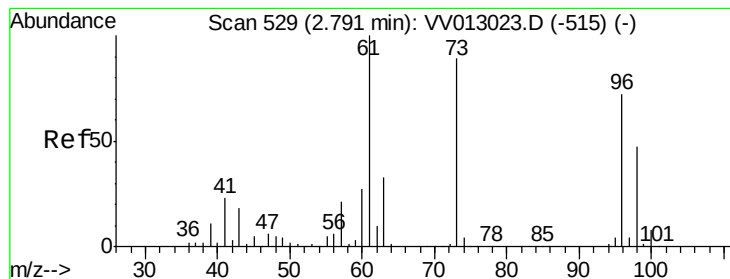
MMDadoda
10/9/2019 3:10:42 PM



#16
Methylene chloride
Concen: 2.947 ug/L
RT: 2.54 min Scan# 450
Delta R.T. 0.00 min
Lab File: VV013027.D
Acq: 02 Oct 2019 11:50

Tgt Ion: 84 Resp: 30332
Ion Ratio Lower Upper
84 100
86 61.8 44.5 82.7
49 120.8 87.5 162.5





#17

trans-1,2-Dichloroethene

Concen: 1.913 ug/L

RT: 2.79 min Scan# 529

Delta R.T. -0.00 min

Lab File: VV013027.D

Acq: 02 Oct 2019 11:50

Instrument :

MSVOA_V

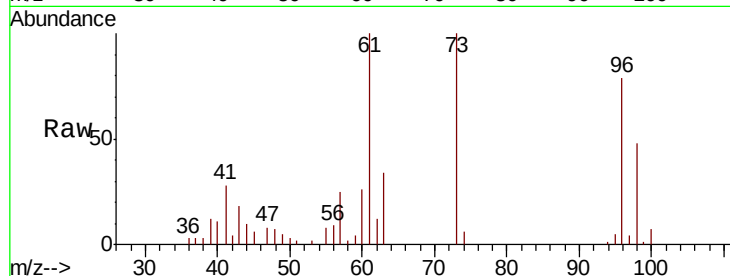
ClientSampleId :

MDL03

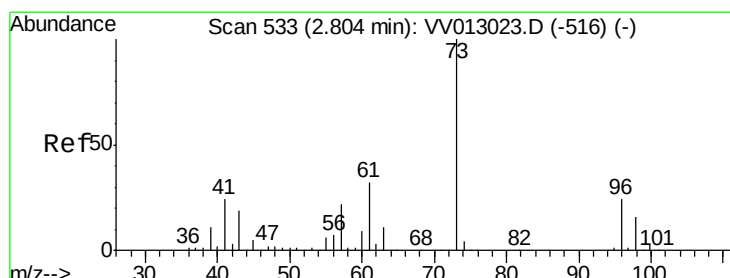
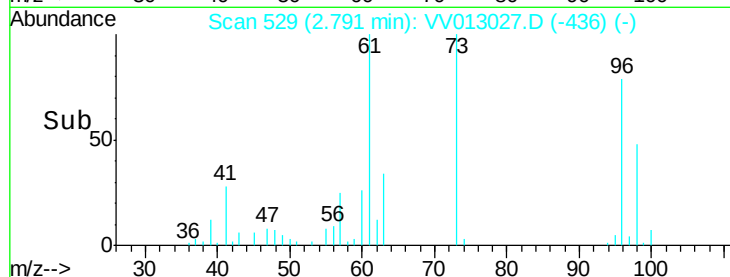
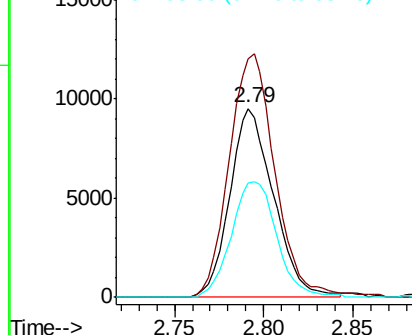
Tot Ion:	96	Resp:	16237
Ion	Ratio	Lower	Upper
96	100		
61	126.3	95.8	177.8
98	60.4	45.1	83.7

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Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



#18

Methyl tert-butyl Ether

Concen: 1.924 ug/L

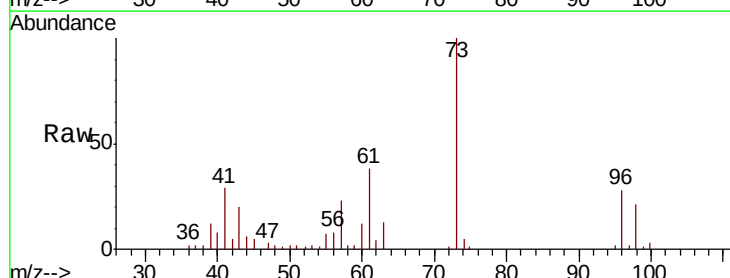
RT: 2.80 min Scan# 533

Delta R.T. -0.00 min

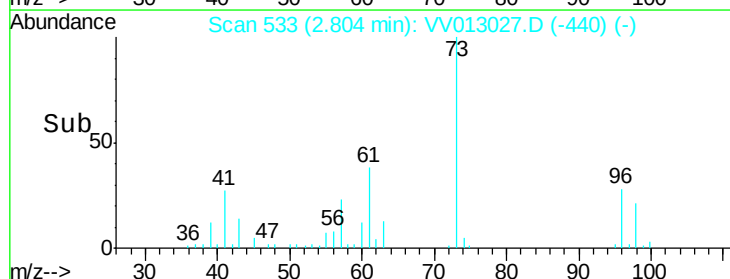
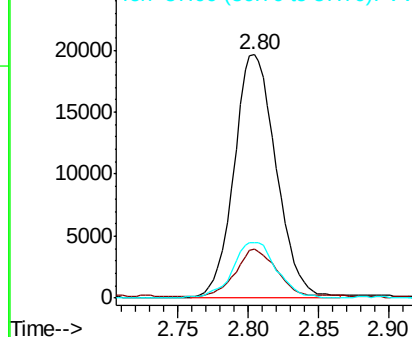
Lab File: VV013027.D

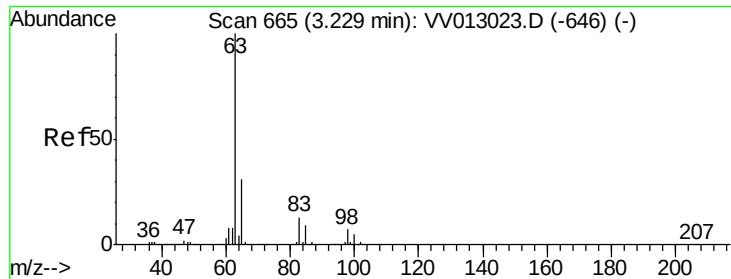
Acq: 02 Oct 2019 11:50

Tgt Ion:	73	Resp:	41083
Ion	Ratio	Lower	Upper
73	100		
43	18.3	15.1	22.7
57	23.7	18.1	27.1



Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0





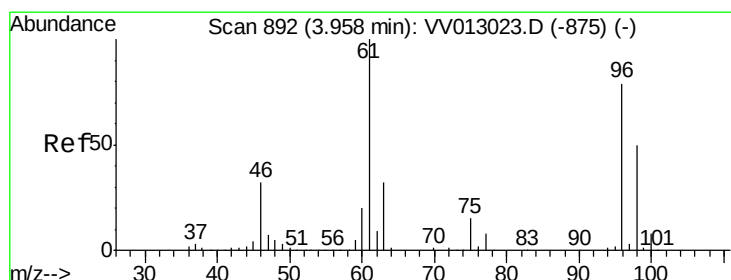
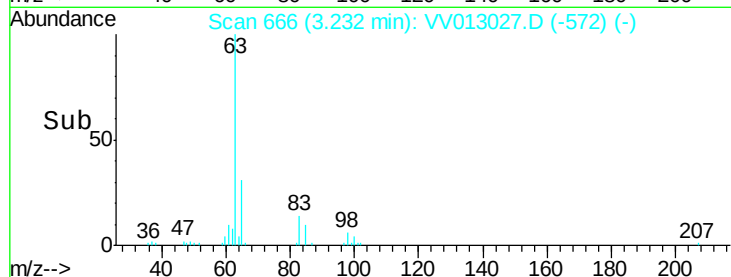
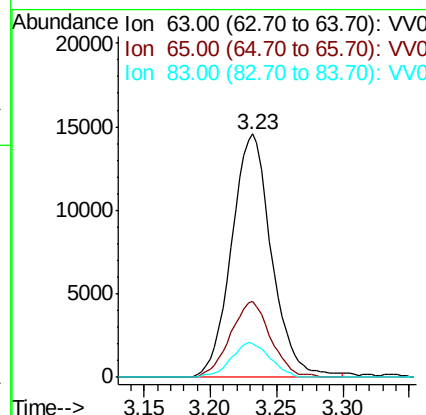
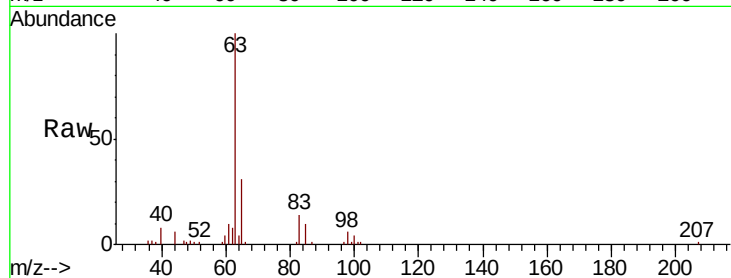
#19
 1,1-Dichloroethane
 Concen: 1.968 ug/L
 RT: 3.23 min Scan# 666
 Delta R.T. 0.00 min
 Lab File: VV013027.D
 Acq: 02 Oct 2019 11:50

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.1	22.4	41.6
83	13.8	9.0	16.6

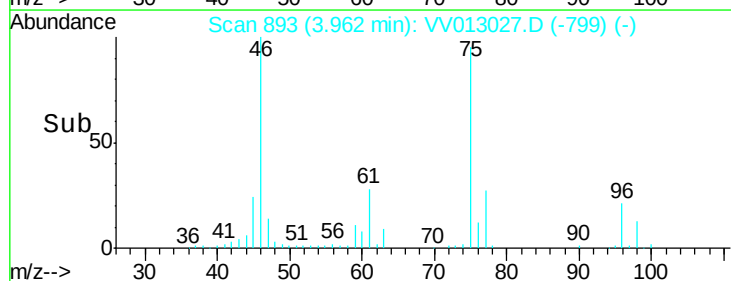
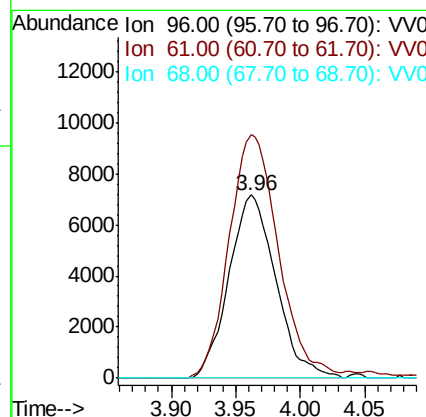
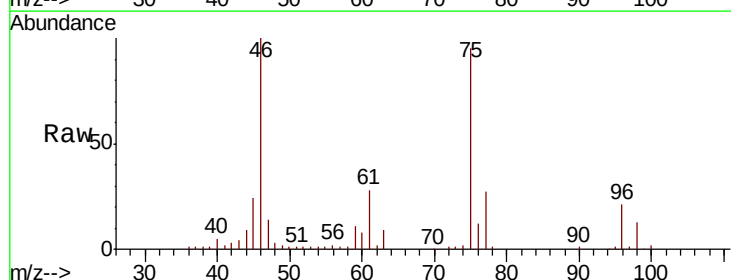
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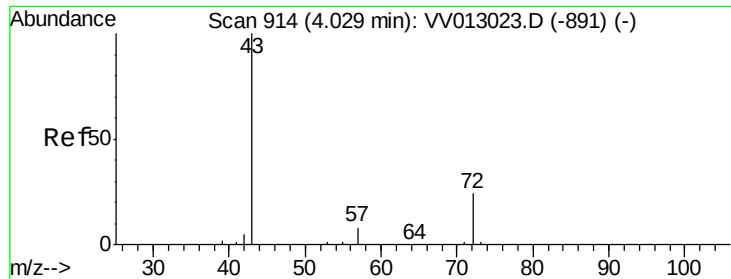
MMDadoda
 10/9/2019 3:10:42 PM



#20
 cis-1,2-Dichloroethene
 Concen: 1.922 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. 0.00 min
 Lab File: VV013027.D
 Acq: 02 Oct 2019 11:50

Tgt Ion	Ratio	Lower	Upper
96	100		
61	132.8	89.5	166.3
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 3.527 ug/L m

RT: 4.04 min Scan# 918

Delta R.T. 0.01 min

Lab File: VV013027.D

Acq: 02 Oct 2019 11:50

Instrument :

MSVOA_V

ClientSampled :

MDL03

Tot Ion: 43 Resp: 12935

Ion Ratio Lower Upper

43 100

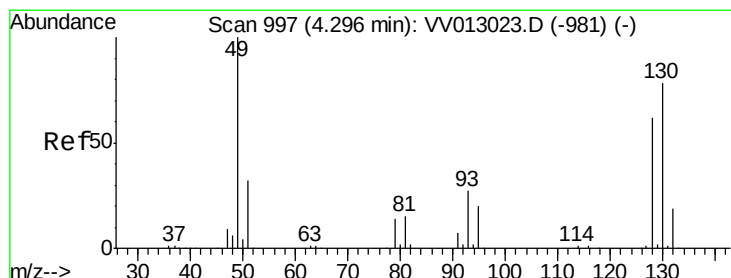
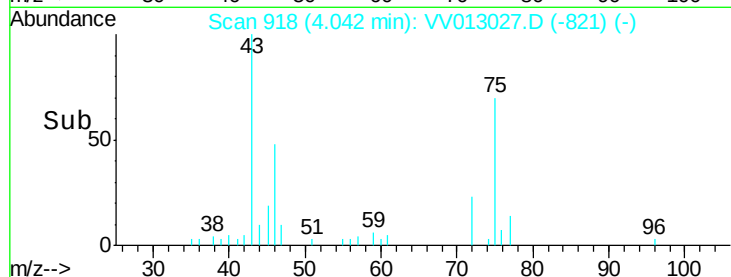
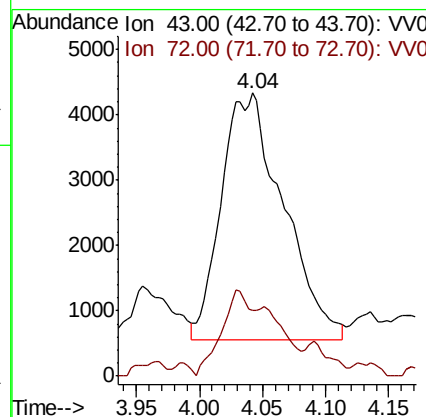
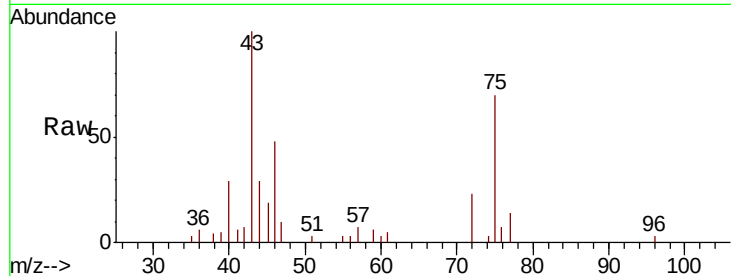
72 0.5 12.0 36.1#

Manual Integrations

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#23

Bromochloromethane

Concen: 1.917 ug/L

RT: 4.30 min Scan# 998

Delta R.T. 0.00 min

Lab File: VV013027.D

Acq: 02 Oct 2019 11:50

Tgt Ion: 128 Resp: 8874

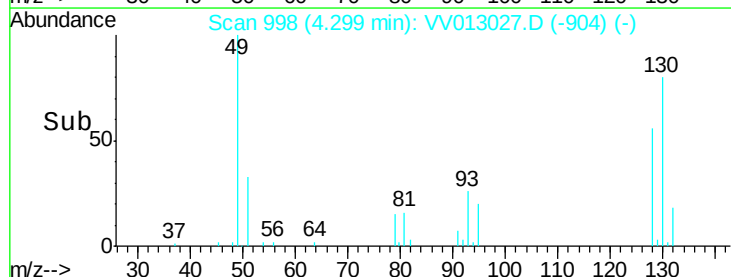
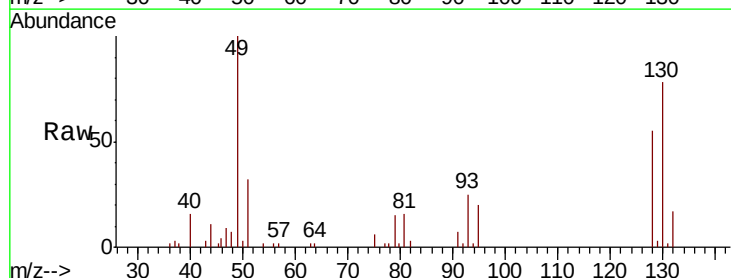
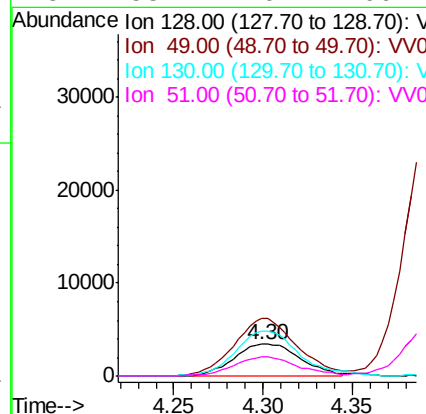
Ion Ratio Lower Upper

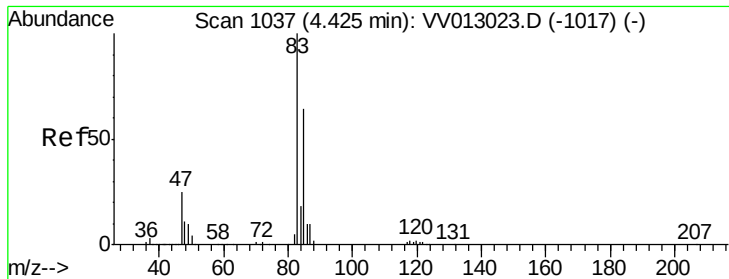
128 100

49 182.4 113.6 211.0

130 141.7 88.0 163.4

51 58.4 40.2 60.2





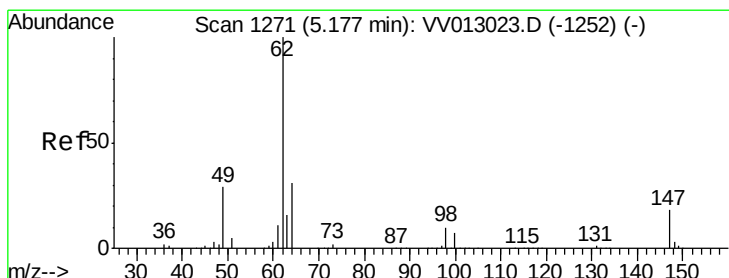
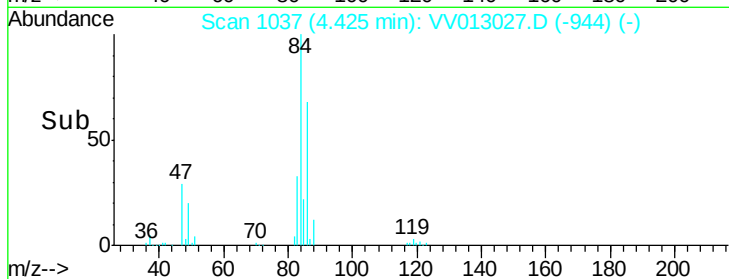
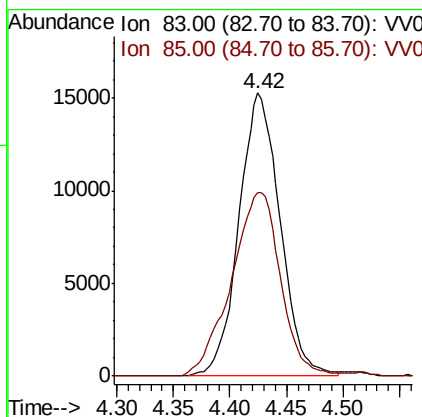
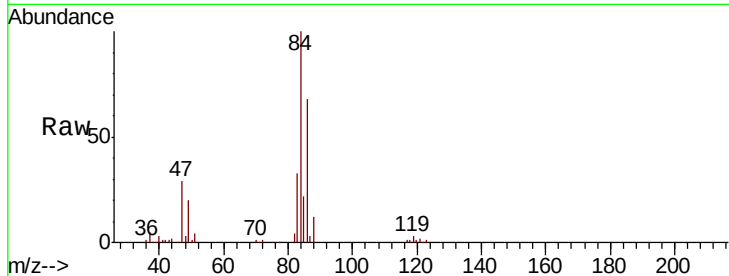
#25
Chloroform
Concen: 2.381 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VV013027.D
Acq: 02 Oct 2019 11:50

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tot Ion	83	Resp	38675
Ion Ratio	100	Lower	Upper
85	64.6	44.7	82.9

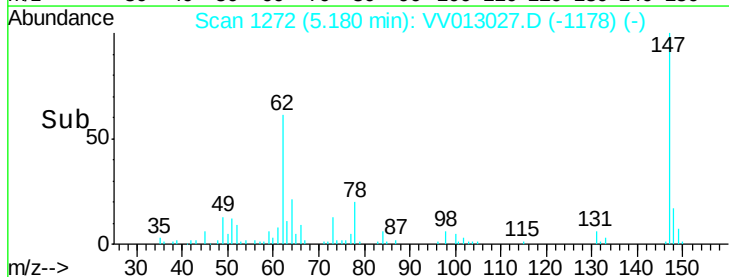
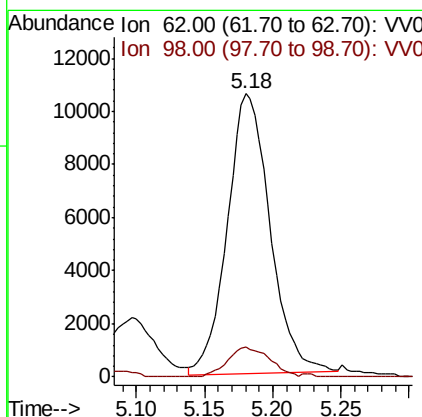
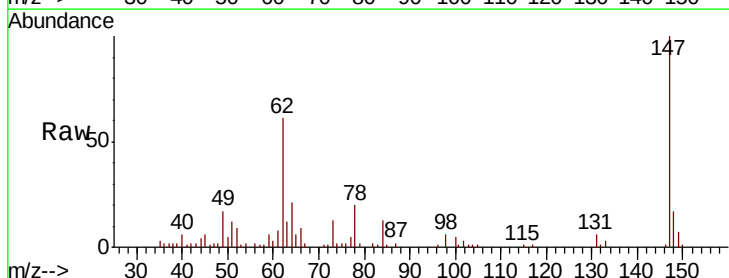
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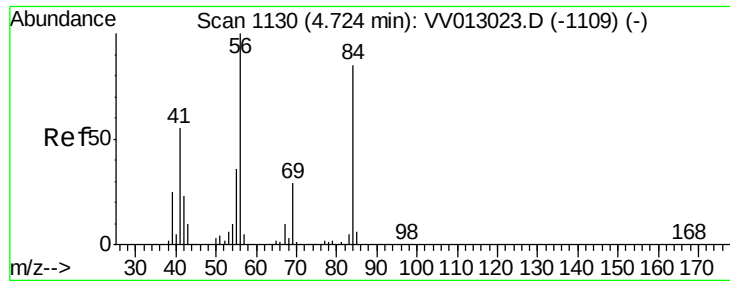
MMDadoda
10/9/2019 3:10:42 PM



#27
1,2-Dichloroethane
Concen: 2.051 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VV013027.D
Acq: 02 Oct 2019 11:50

Tgt Ion	62	Resp	22907
Ion Ratio	100	Lower	Upper
98	10.5	8.5	12.7





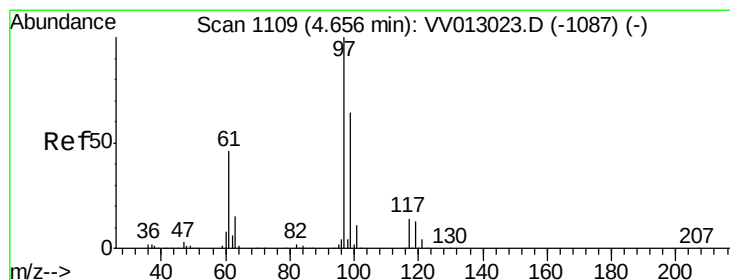
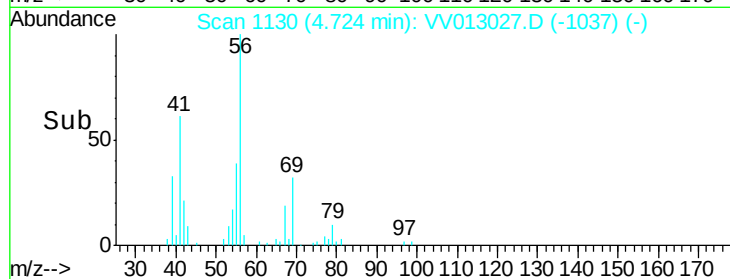
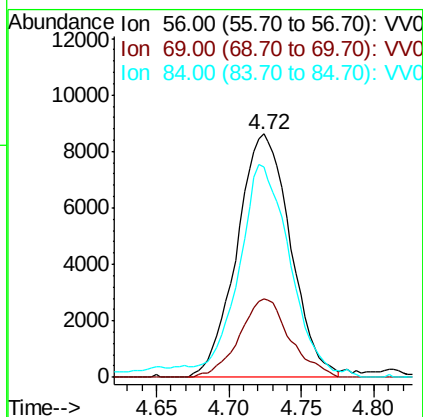
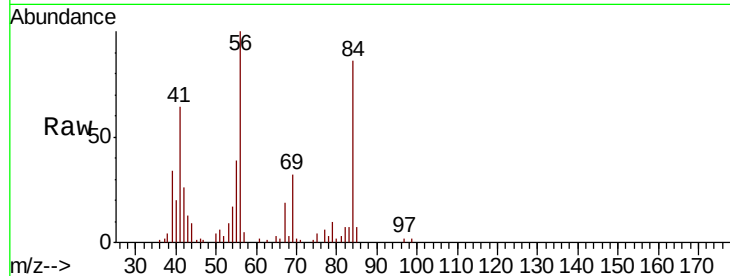
#29
Cyclohexane
Concen: 1.568 ug/L
RT: 4.72 min Scan# 1130
Delta R.T. -0.00 min
Lab File: VV013027.D
Acq: 02 Oct 2019 11:50

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
56	100		
69	30.6	24.2	36.4
84	81.5	69.6	104.4

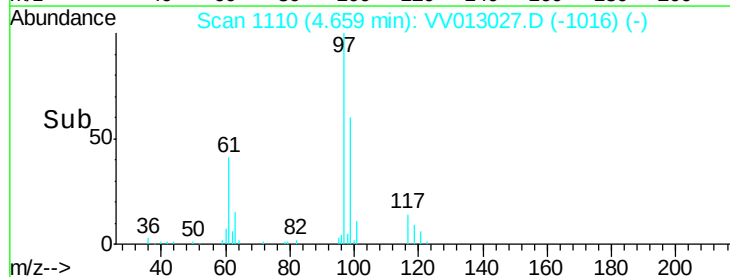
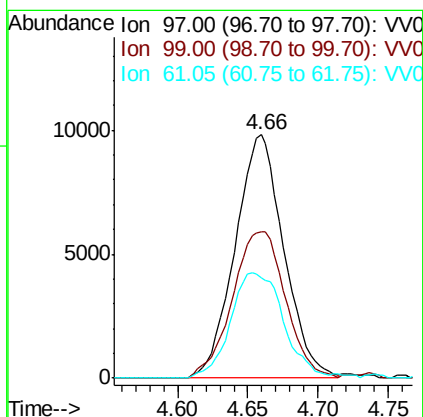
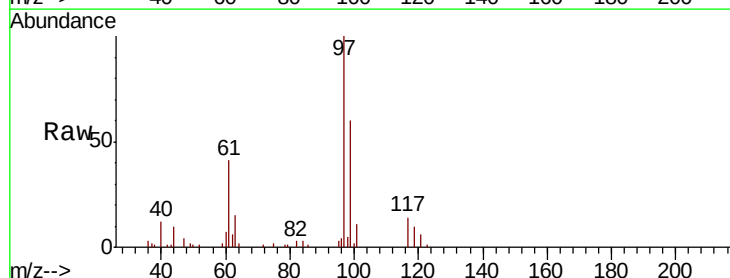
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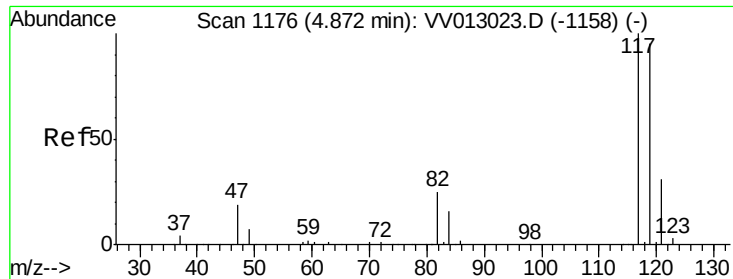
MMDadoda
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#30
1,1,1-Trichloroethane
Concen: 1.814 ug/L
RT: 4.66 min Scan# 1110
Delta R.T. 0.00 min
Lab File: VV013027.D
Acq: 02 Oct 2019 11:50

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.5	51.7	77.5
61	46.9	36.1	54.1





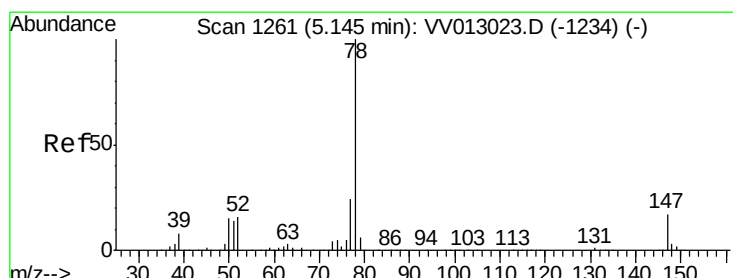
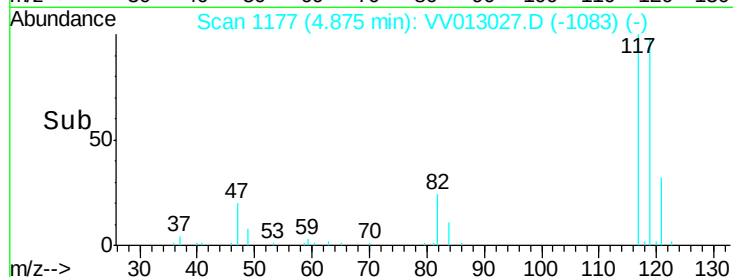
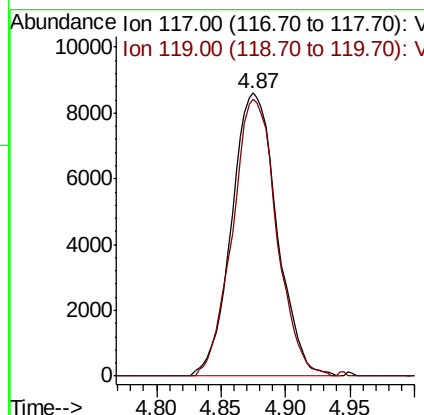
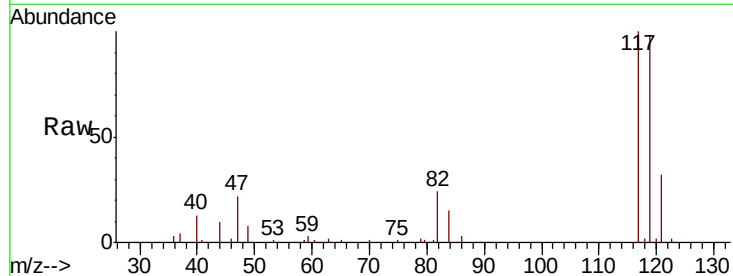
#31
Carbon tetrachloride
Concen: 1.788 ug/L
RT: 4.87 min Scan# 1177
Delta R.T. 0.00 min
Lab File: VV013027.D
Acq: 02 Oct 2019 11:50

Instrument :
MSVOA_V
ClientSampled :
MDL03

Tot Ion:117 Resp: 21035
Ion Ratio Lower Upper
117 100
119 95.3 76.1 114.1

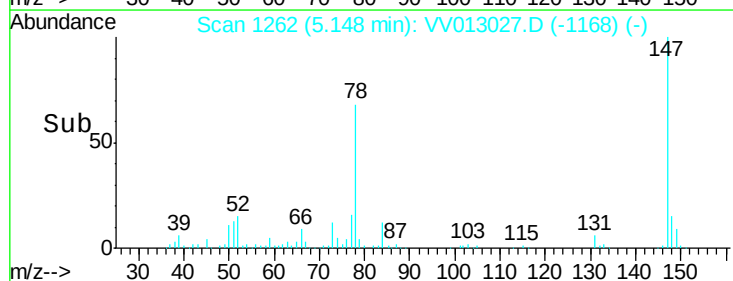
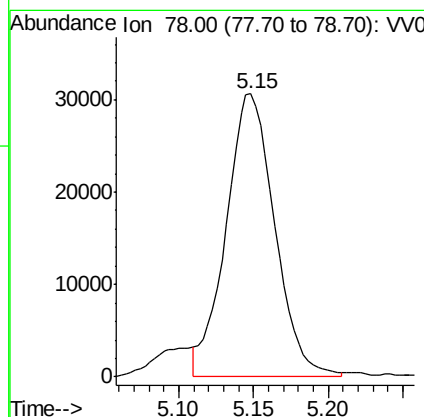
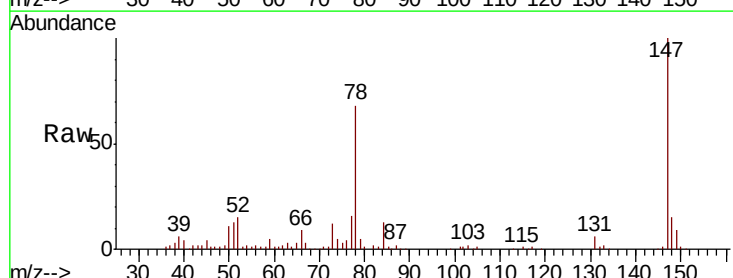
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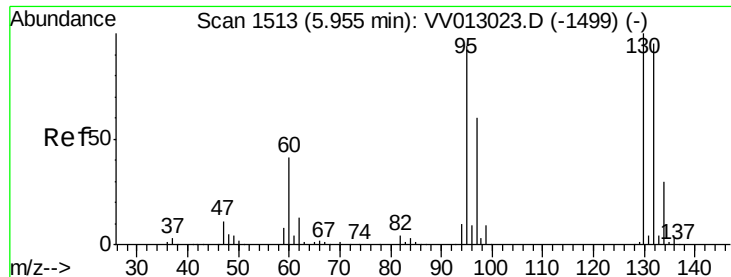
MMDadoda
10/9/2019 3:10:42 PM



#33
Benzene
Concen: 1.897 ug/L m
RT: 5.15 min Scan# 1262
Delta R.T. 0.00 min
Lab File: VV013027.D
Acq: 02 Oct 2019 11:50

Tgt Ion: 78 Resp: 69419





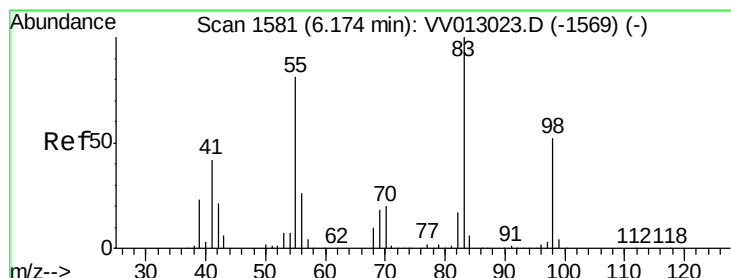
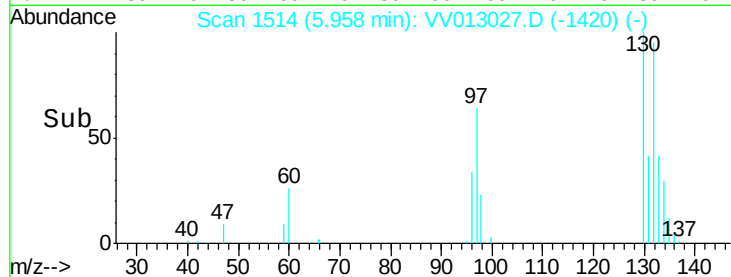
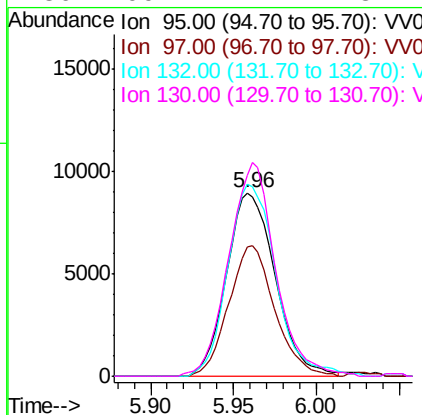
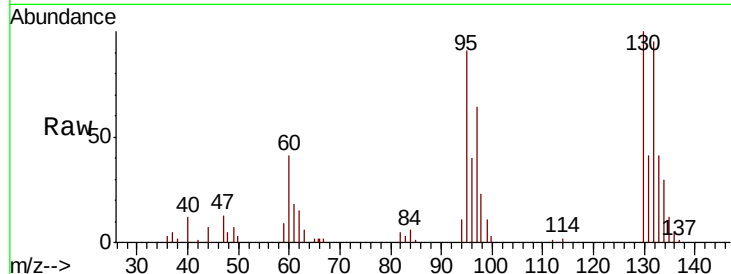
#34
 Trichloroethene
 Concen: 1.852 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VV013027.D
 Acq: 02 Oct 2019 11:50

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
95	100		
97	70.3	45.4	84.2
132	104.7	70.1	130.3
130	109.7	72.4	134.4

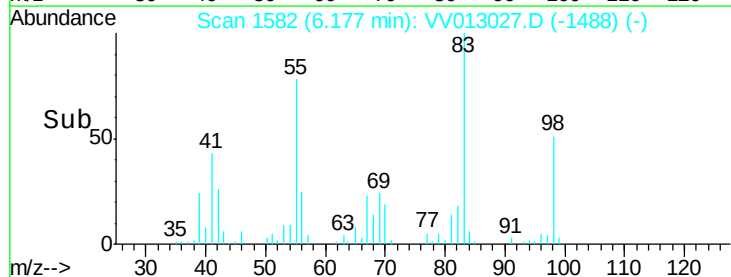
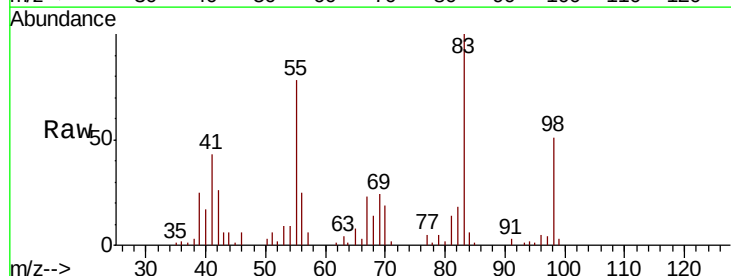
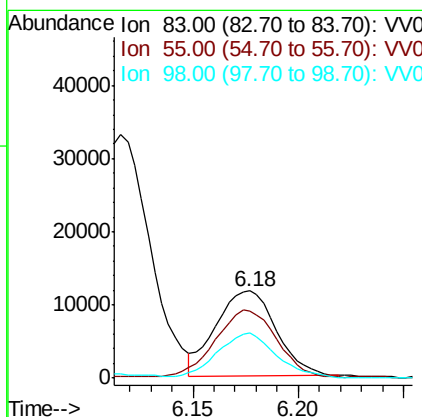
Manual Integrations
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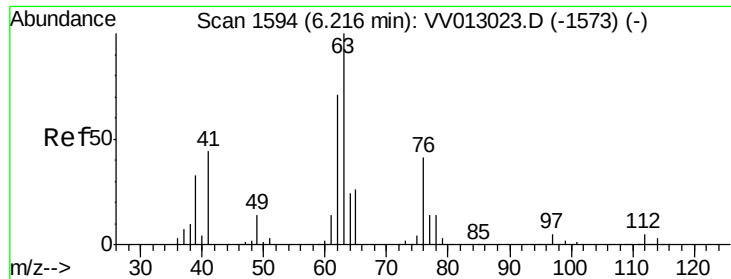
MMDadoda
 10/9/2019 3:10:42 PM



#35
 Methylcyclohexane
 Concen: 1.507 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. 0.00 min
 Lab File: VV013027.D
 Acq: 02 Oct 2019 11:50

Tgt Ion	Ratio	Lower	Upper
83	100		
55	81.8	61.9	92.9
98	51.1	40.0	60.0





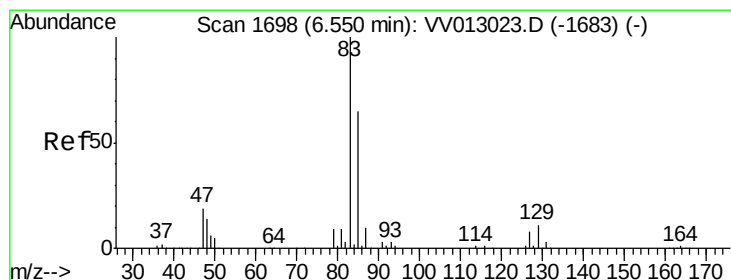
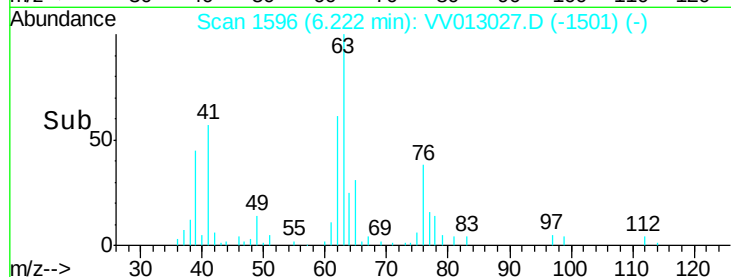
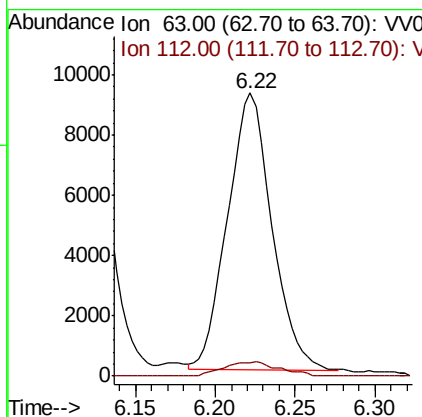
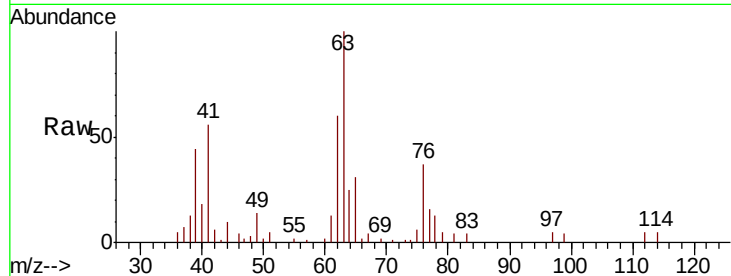
#37
 1,2-Dichloropropane
 Concen: 1.853 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. 0.01 min
 Lab File: VV013027.D
 Acq: 02 Oct 2019 11:50

Instrument :
 MSVOA_V
 ClientSampled :
 MDL03

Tot Ion: 63 Resp: 17392
 Ion Ratio Lower Upper
 63 100
 112 5.4 3.8 5.8

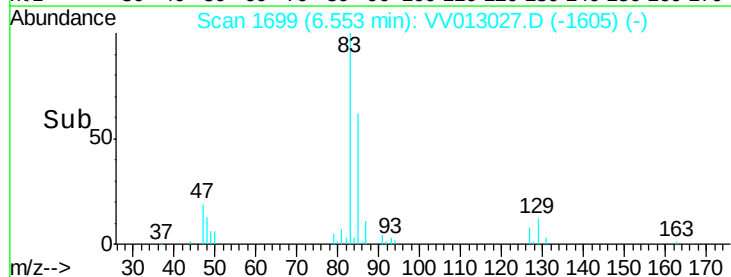
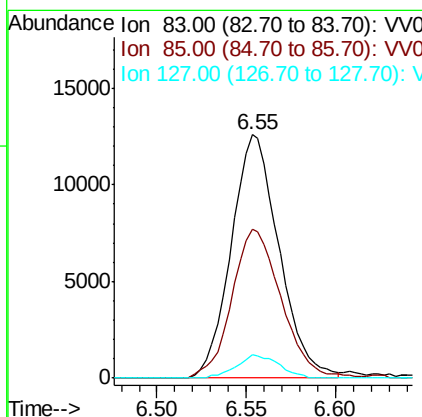
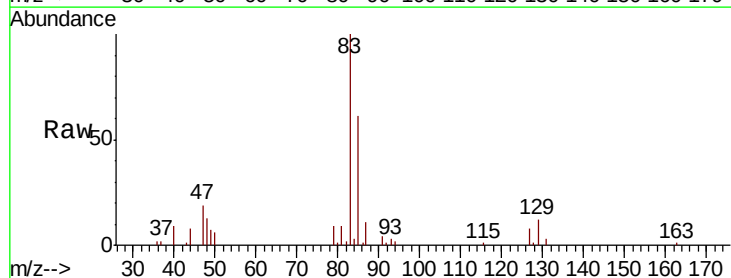
Manual Integrations
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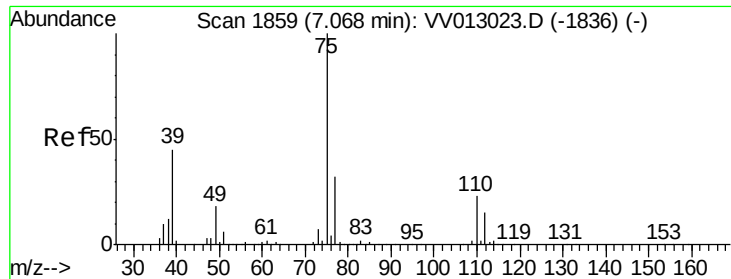
MMDadoda
 10/9/2019 3:10:42 PM



#38
 Bromodichloromethane
 Concen: 1.923 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV013027.D
 Acq: 02 Oct 2019 11:50

Tgt Ion: 83 Resp: 23568
 Ion Ratio Lower Upper
 83 100
 85 61.0 43.9 81.5
 127 9.4 7.0 10.6





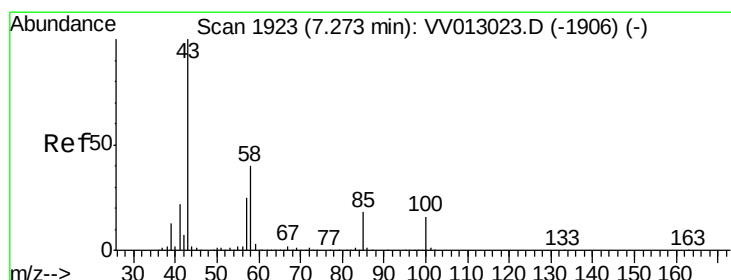
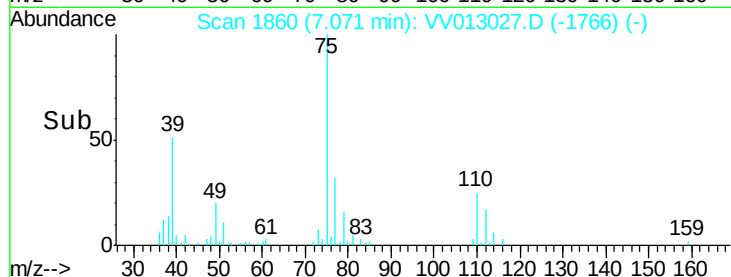
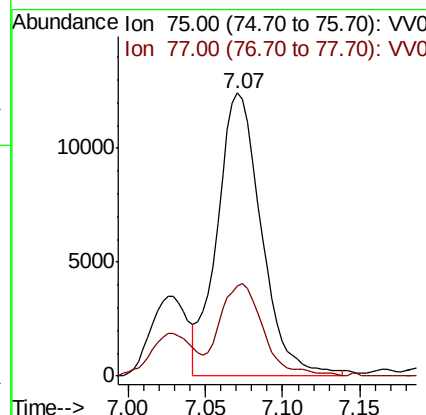
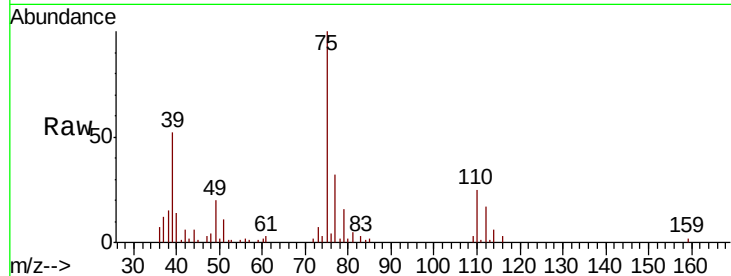
#39
 cis-1,3-Dichloropropene
 Concen: 1.750 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV013027.D
 Acq: 02 Oct 2019 11:50

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.8	21.8	40.4

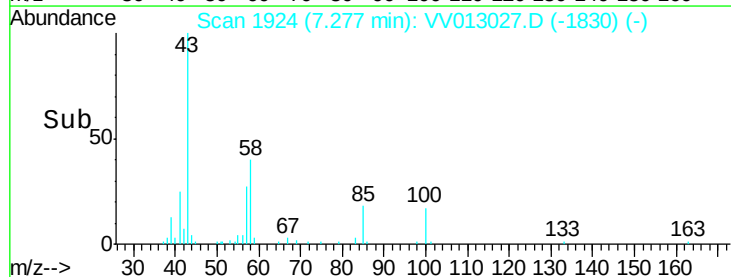
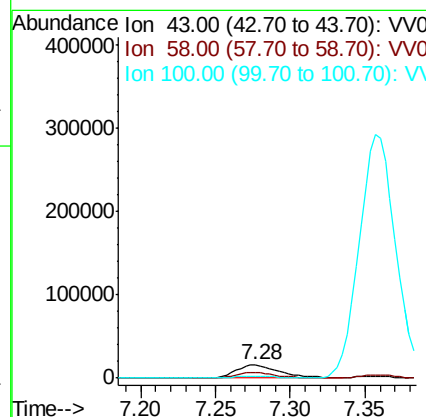
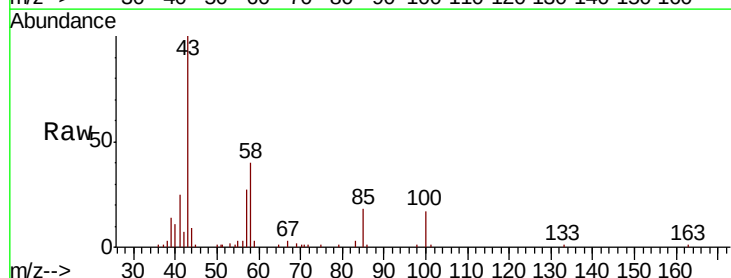
Manual Integrations
 APPROVED

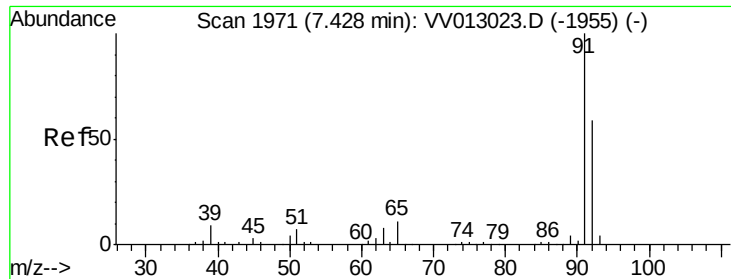
MMDadoda
 10/9/2019 3:10:42 PM



#40
 4-Methyl-2-pentanone
 Concen: 4.371 ug/L
 RT: 7.28 min Scan# 1924
 Delta R.T. 0.00 min
 Lab File: VV013027.D
 Acq: 02 Oct 2019 11:50

Tgt Ion	Ratio	Lower	Upper
43	100		
58	38.6	31.8	47.8
100	15.0	12.8	19.2





#42

Toluene

Concen: 1.902 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV013027.D

Acq: 02 Oct 2019 11:50

Instrument :

MSVOA_V

ClientSampled :

MDL03

Tot Ion: 91 Resp: 73999

Ion Ratio Lower Upper

91 100

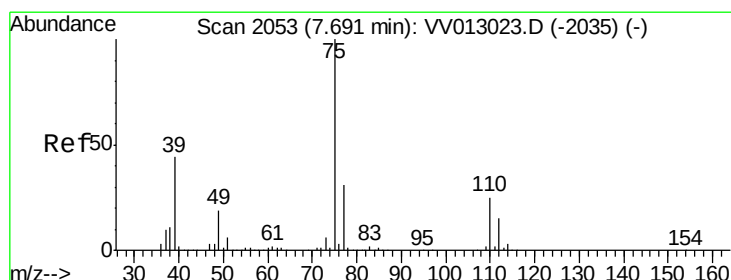
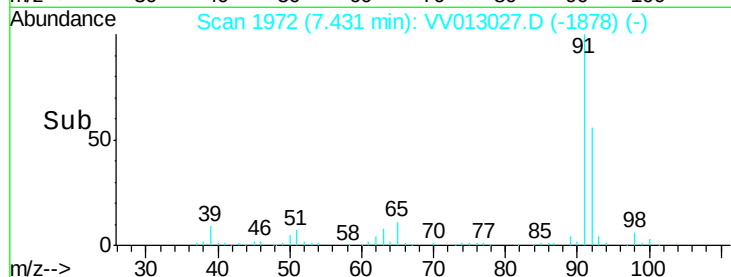
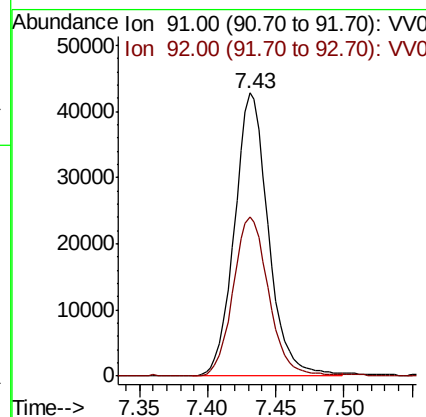
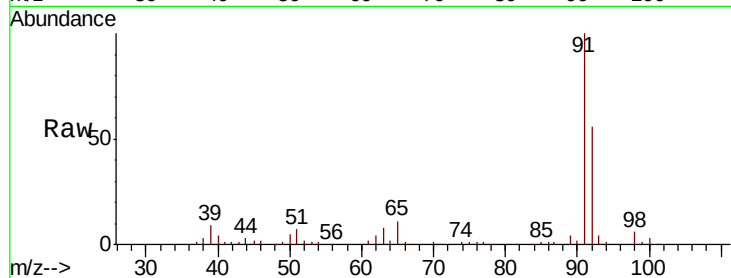
92 56.1 41.1 76.3

Manual Integrations

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MMDadoda

10/9/2019 3:10:42 PM



#44

trans-1,3-Dichloropropene

Concen: 1.989 ug/L m

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV013027.D

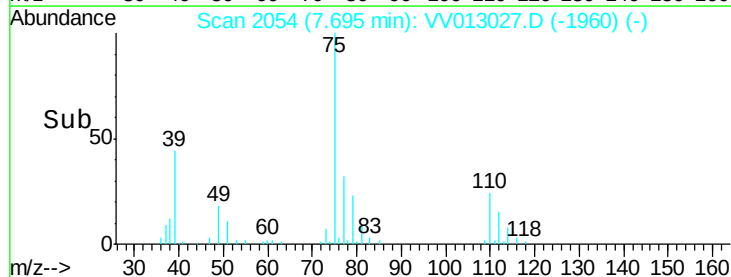
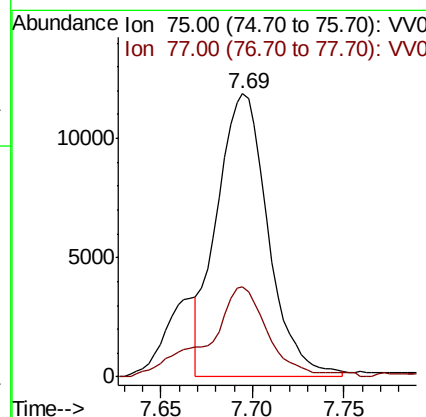
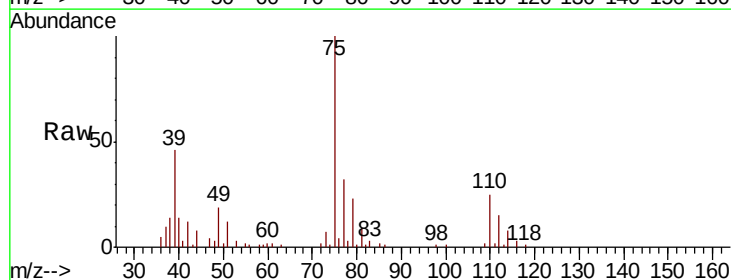
Acq: 02 Oct 2019 11:50

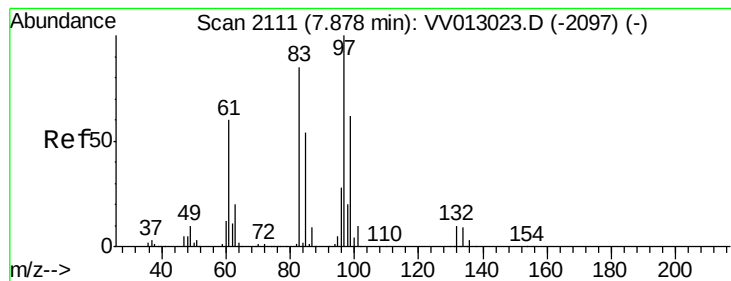
Tgt Ion: 75 Resp: 23086

Ion Ratio Lower Upper

75 100

77 31.9 22.1 41.1





#45

1,1,2-Trichloroethane

Concen: 2.063 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VV013027.D

Acq: 02 Oct 2019 11:50

Instrument :

MSVOA_V

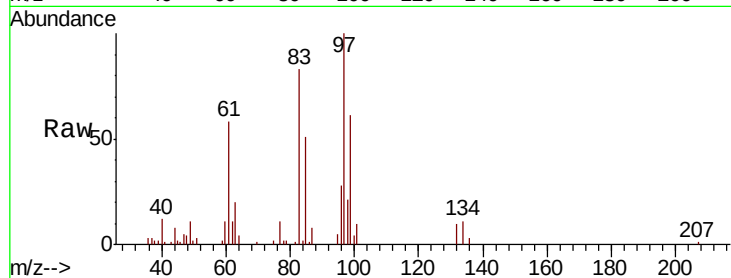
ClientSampleId :

MDL03

Tot Ion:	97	Resp:	16430
Ion	Ratio	Lower	Upper
97	100		
99	60.9	44.2	82.2
83	83.0	59.7	110.9
85	51.0	38.6	71.6

Manual Integrations
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MMDadoda
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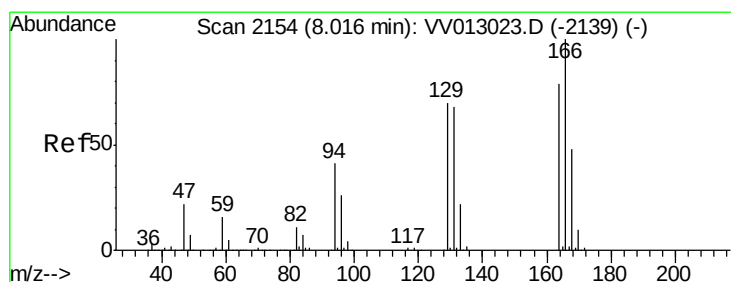
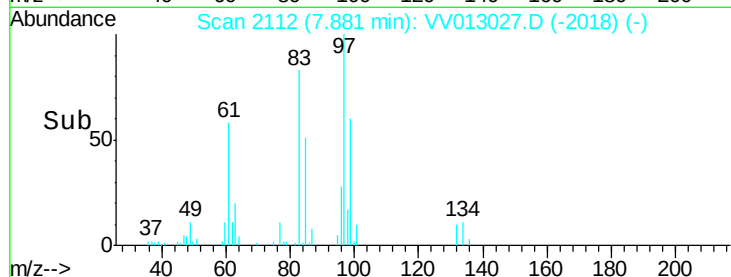
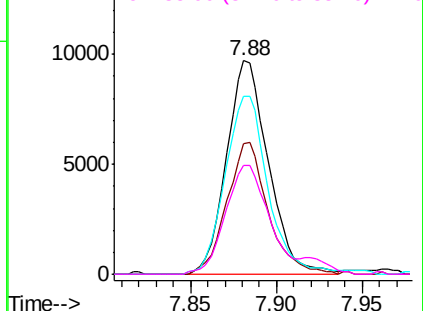
Abundance

Ion 97.00 (96.70 to 97.70): VV013027.D (-2097) (-)

Ion 99.00 (98.70 to 99.70): VV013027.D (-2097) (-)

Ion 83.00 (82.70 to 83.70): VV013027.D (-2097) (-)

Ion 85.00 (84.70 to 85.70): VV013027.D (-2097) (-)



#46

Tetrachloroethene

Concen: 1.863 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV013027.D

Acq: 02 Oct 2019 11:50

Tgt Ion:	164	Resp:	15277
Ion	Ratio	Lower	Upper
164	100		
129	84.9	61.2	113.6
131	79.6	59.9	111.3
166	120.0	89.1	165.5

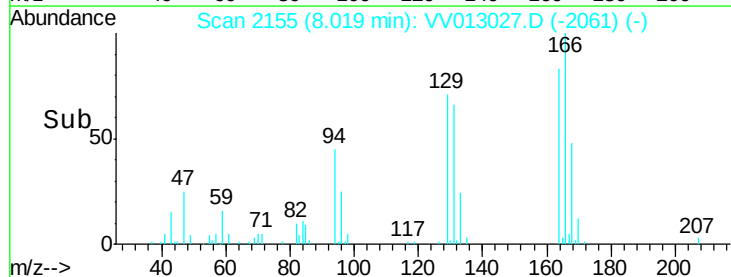
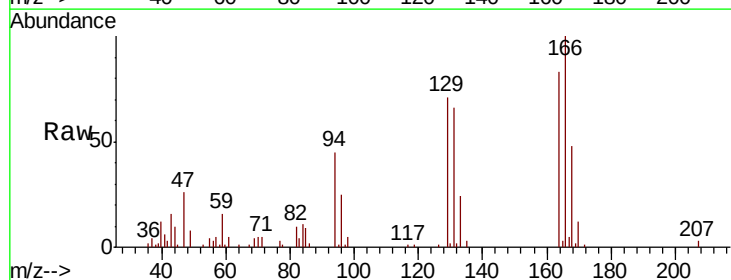
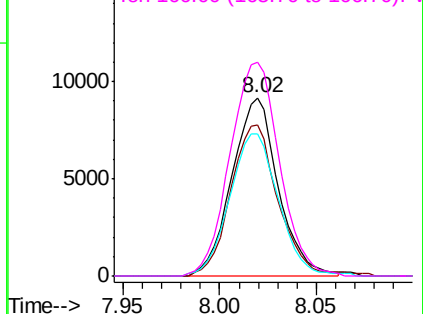
Abundance

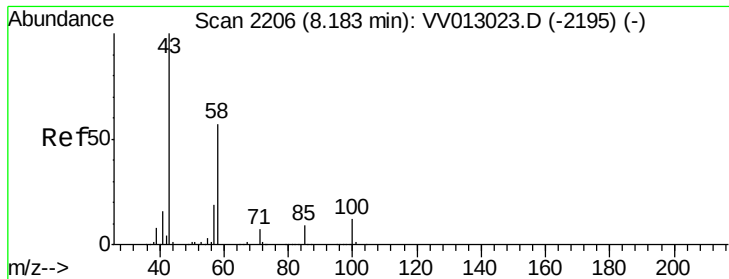
Ion 164.00 (163.70 to 164.70): VV013027.D (-2139) (-)

Ion 129.00 (128.70 to 129.70): VV013027.D (-2139) (-)

Ion 131.00 (130.70 to 131.70): VV013027.D (-2139) (-)

Ion 166.00 (165.70 to 166.70): VV013027.D (-2139) (-)





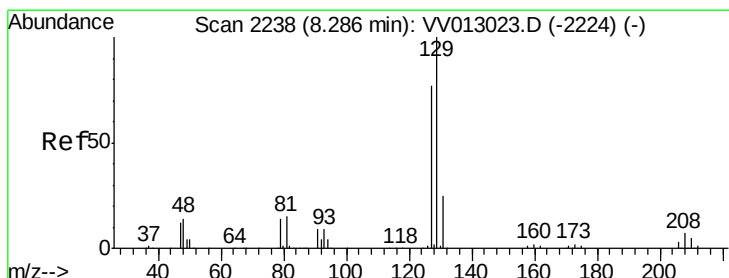
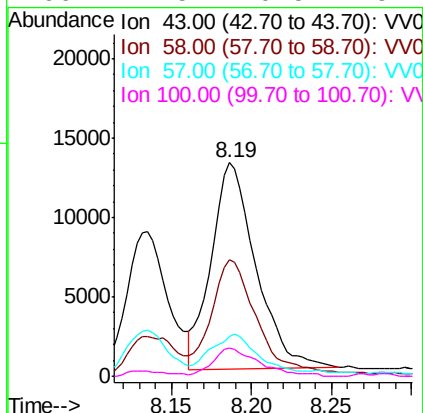
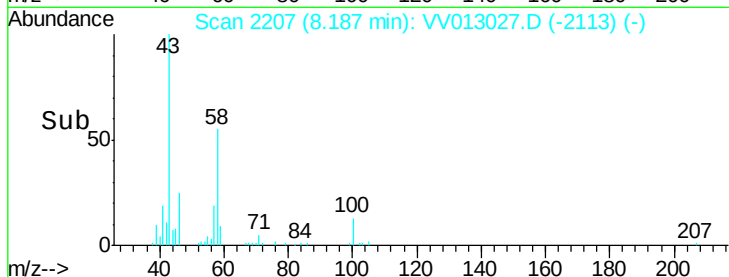
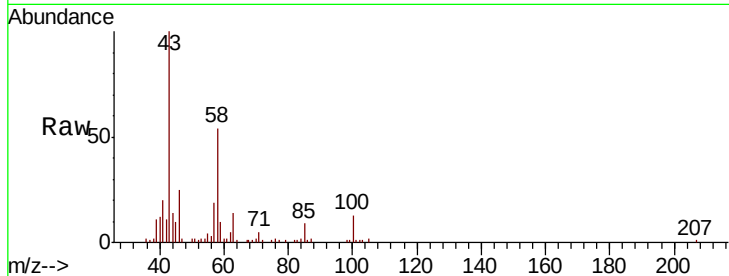
#48
2-Hexanone
Concen: 4.597 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.00 min
Lab File: VV013027.D
Acq: 02 Oct 2019 11:50

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
58	53.4	44.9	67.3	
57	22.6	15.2	22.8	
100	12.5	10.5	15.7	

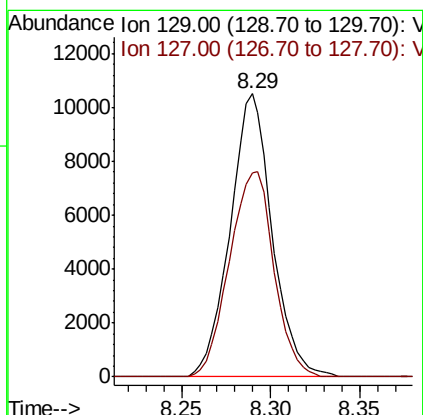
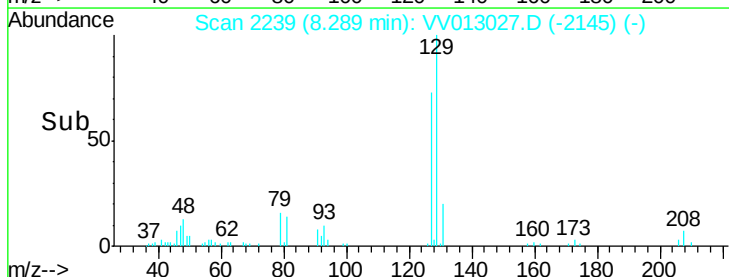
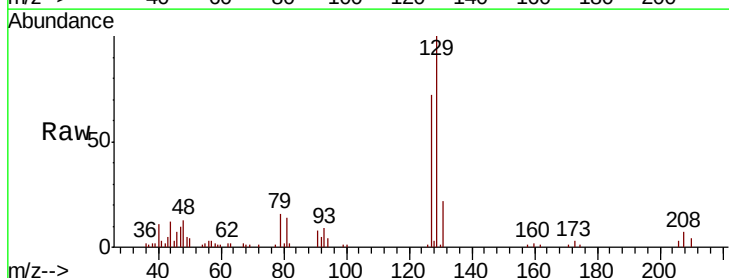
Manual Integrations
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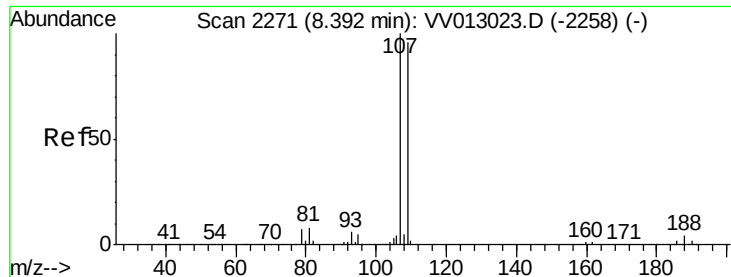
MMDadoda
10/9/2019 3:10:42 PM



#49
Dibromochloromethane
Concen: 1.900 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV013027.D
Acq: 02 Oct 2019 11:50

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	72.3	53.9	100.1	





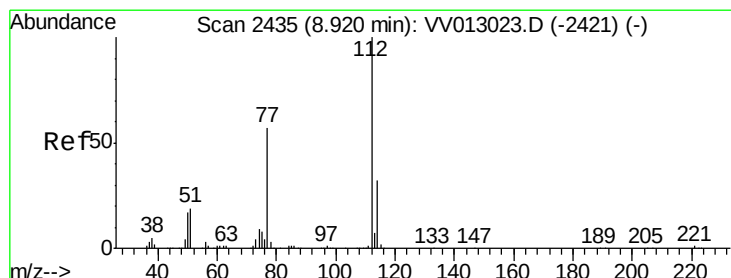
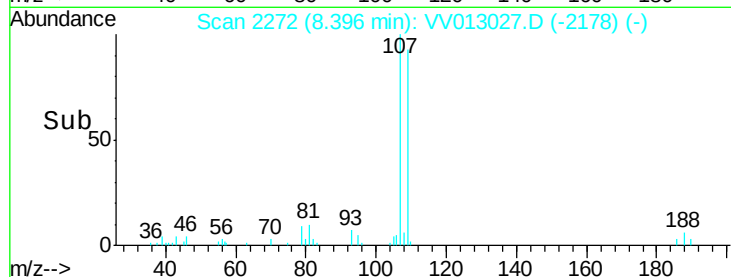
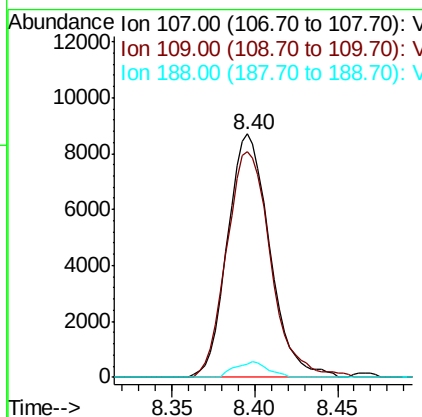
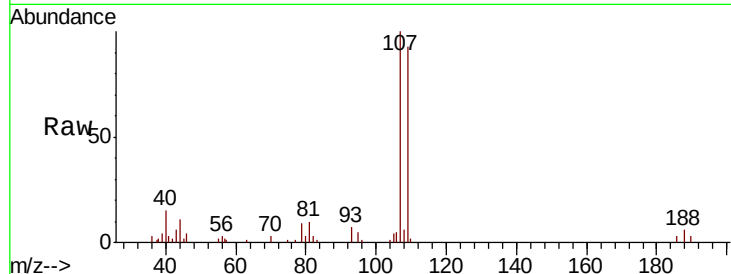
#50
1,2-Dibromoethane
Concen: 1.962 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VV013027.D
Acq: 02 Oct 2019 11:50

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
107	100		
109	92.8	64.7	120.1
188	5.5	3.7	5.5#

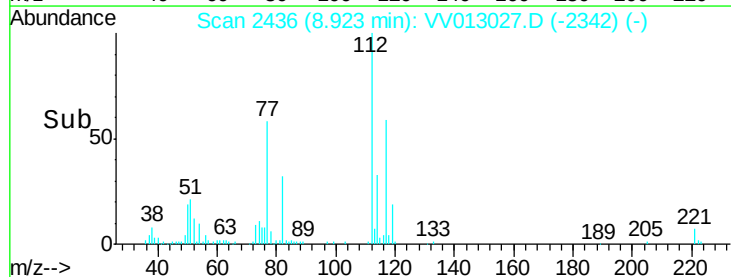
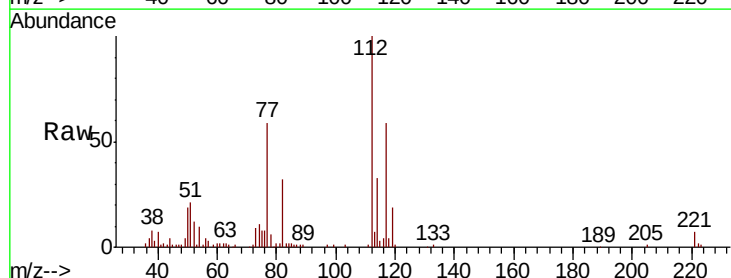
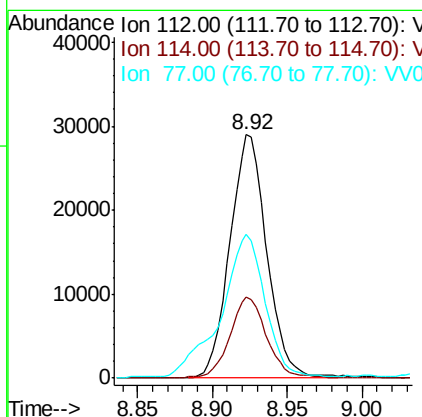
Manual Integrations
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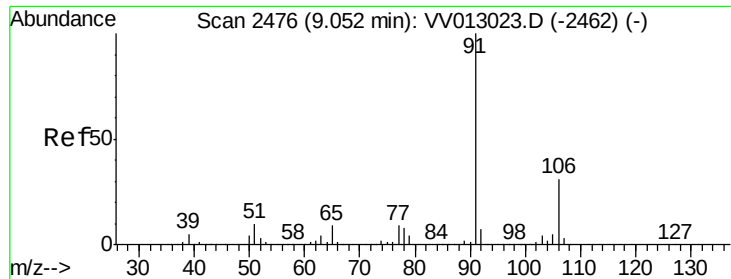
MMDadoda
10/9/2019 3:10:42 PM



#51
Chlorobenzene
Concen: 1.887 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VV013027.D
Acq: 02 Oct 2019 11:50

Tgt Ion	Ratio	Lower	Upper
112	100		
114	33.1	22.7	42.1
77	58.9	45.9	68.9





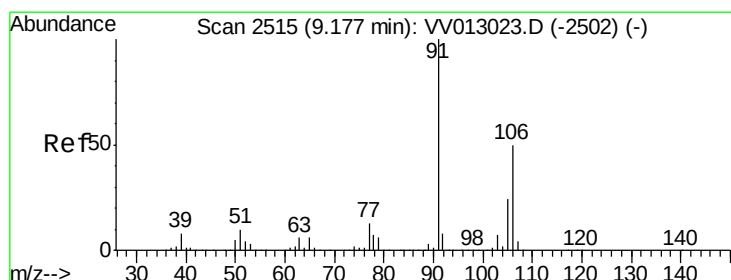
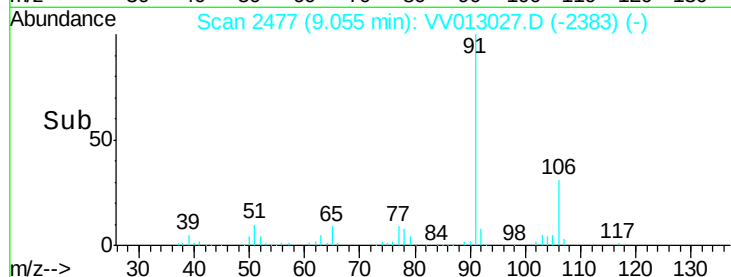
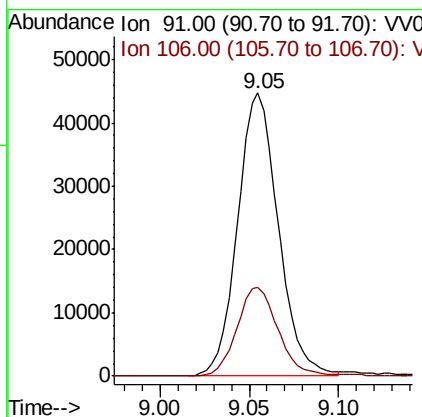
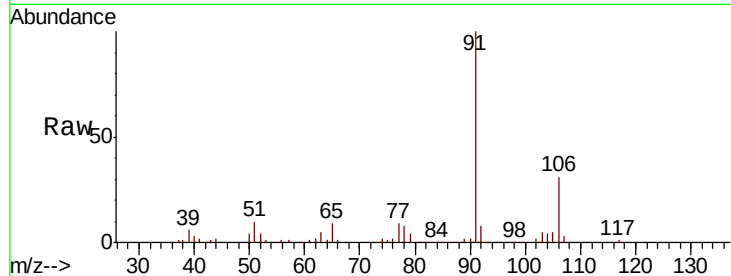
#52
Ethylbenzene
Concen: 1.675 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. 0.00 min
Lab File: VV013027.D
Acq: 02 Oct 2019 11:50

Instrument :
MSVOA_V
ClientSampled :
MDL03

Tot Ion: 91 Resp: 71607
Ion Ratio Lower Upper
91 100
106 31.5 21.8 40.4

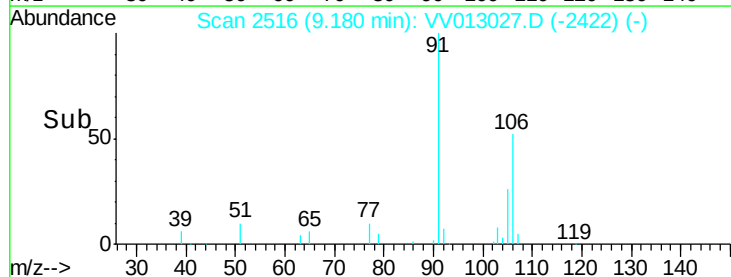
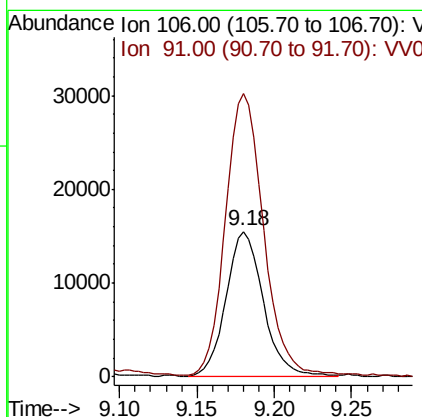
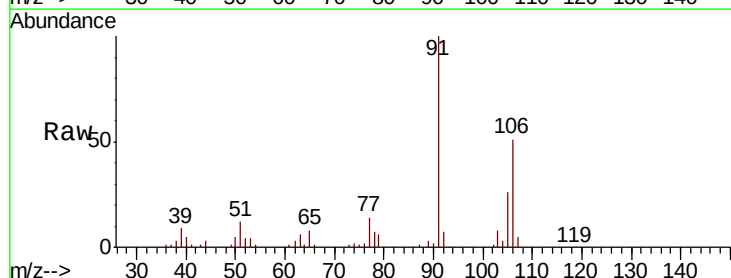
Manual Integrations
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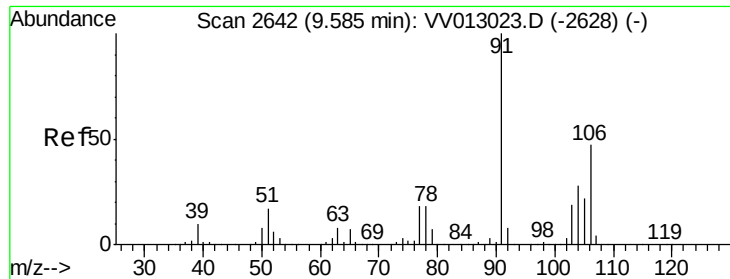
MMDadoda
10/9/2019 3:10:42 PM



#53
m,p-Xylene
Concen: 1.594 ug/L
RT: 9.18 min Scan# 2516
Delta R.T. 0.00 min
Lab File: VV013027.D
Acq: 02 Oct 2019 11:50

Tgt Ion: 106 Resp: 26041
Ion Ratio Lower Upper
106 100
91 194.8 138.0 256.2





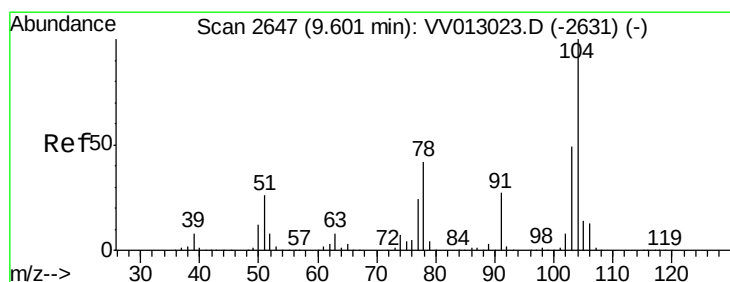
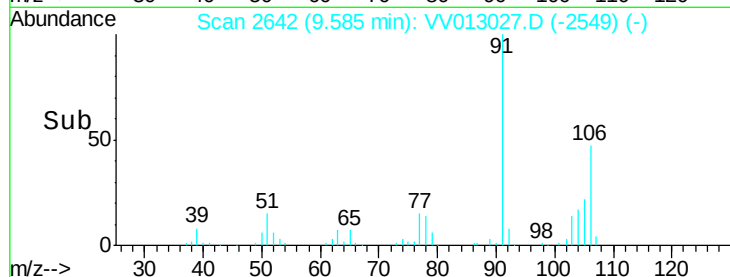
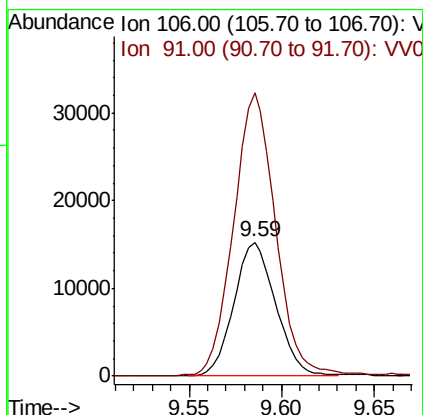
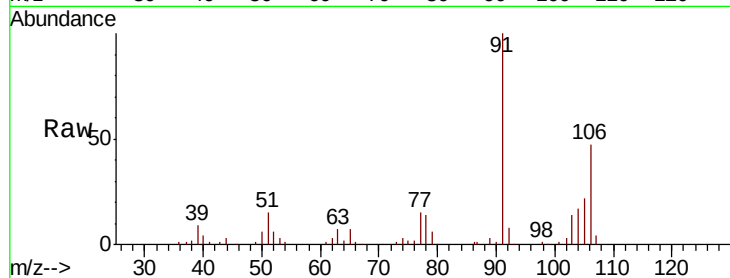
#54
o-Xylene
Concen: 1.531 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. -0.00 min
Lab File: VV013027.D
Acq: 02 Oct 2019 11:50

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tot Ion:106 Resp: 23927
Ion Ratio Lower Upper
106 100
91 211.6 150.8 280.1

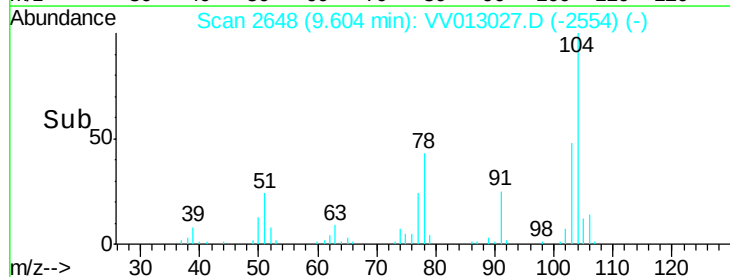
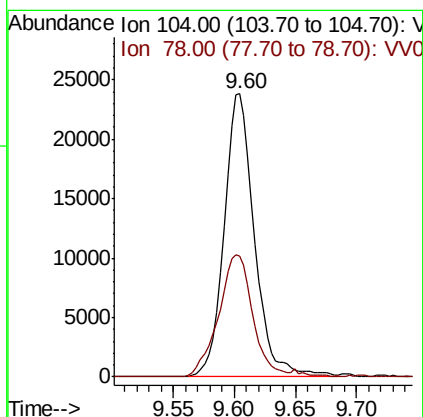
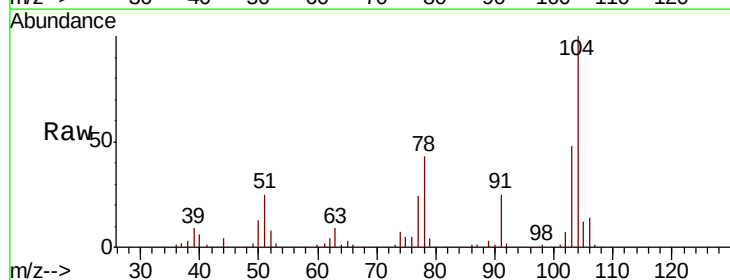
Manual Integrations
APPROVED

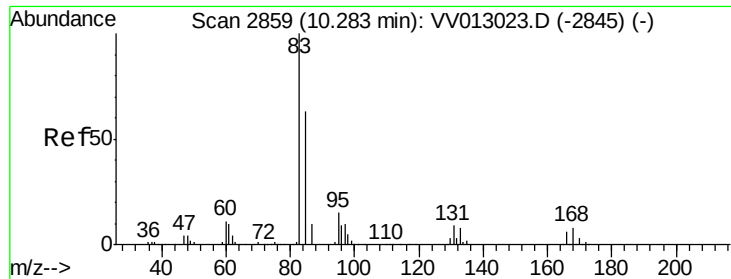
MMDadoda
10/9/2019 3:10:42 PM



#55
Styrene
Concen: 1.518 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. 0.00 min
Lab File: VV013027.D
Acq: 02 Oct 2019 11:50

Tgt Ion:104 Resp: 41542
Ion Ratio Lower Upper
104 100
78 42.8 29.8 55.3





#57

1,1,2,2-Tetrachloroethane

Concen: 2.160 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV013027.D

Acq: 02 Oct 2019 11:50

Instrument :

MSVOA_V

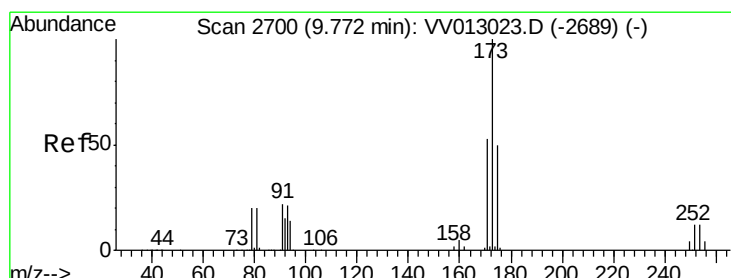
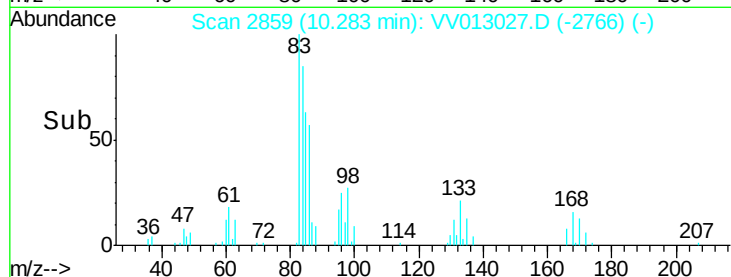
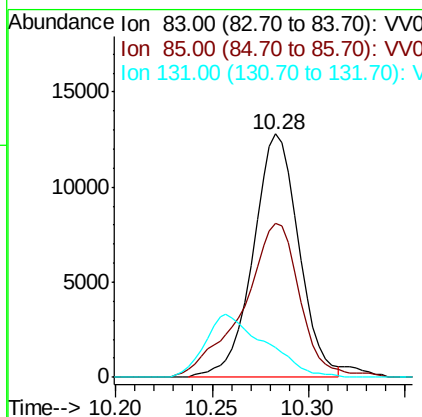
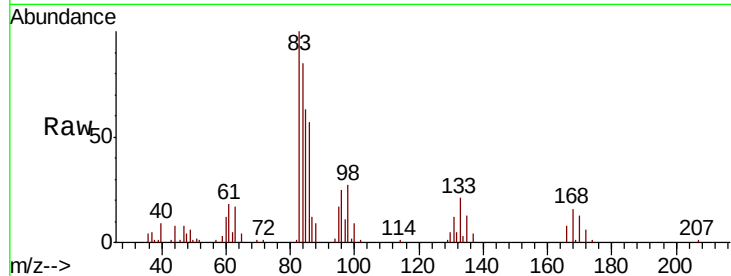
ClientSampleId :

MDL03

Tot Ion:	83	Resp:	20973
Ion	Ratio	Lower	Upper
83	100		
85	63.4	44.5	82.7
131	12.1	8.2	12.2

Manual Integrations
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MMDadoda
10/9/2019 3:10:42 PM



#59

Bromoform

Concen: 2.035 ug/L

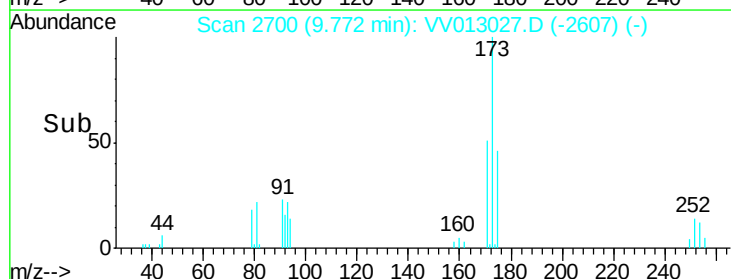
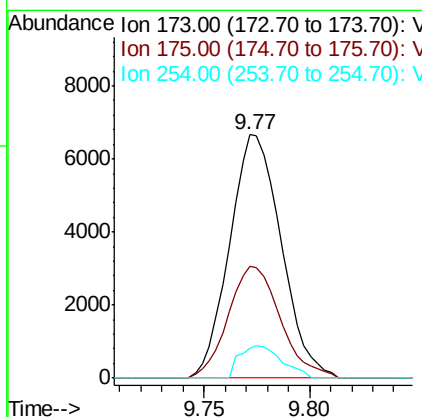
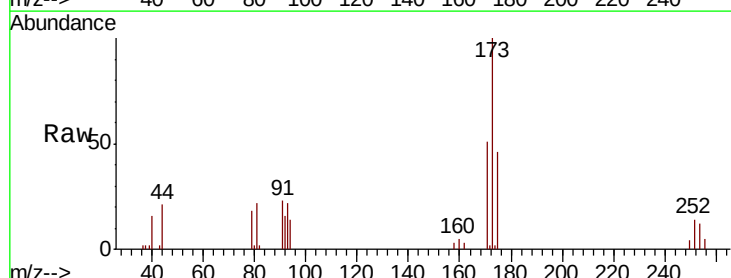
RT: 9.77 min Scan# 2700

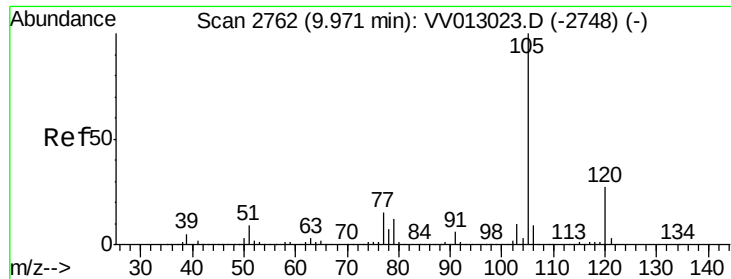
Delta R.T. -0.00 min

Lab File: VV013027.D

Acq: 02 Oct 2019 11:50

Tgt Ion:	173	Resp:	11317
Ion	Ratio	Lower	Upper
173	100		
175	46.4	38.9	58.3
254	10.9	9.4	14.0





#60

Isopropylbenzene

Concen: 1.545 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. -0.00 min

Lab File: VV013027.D

Acq: 02 Oct 2019 11:50

Instrument :

MSVOA_V

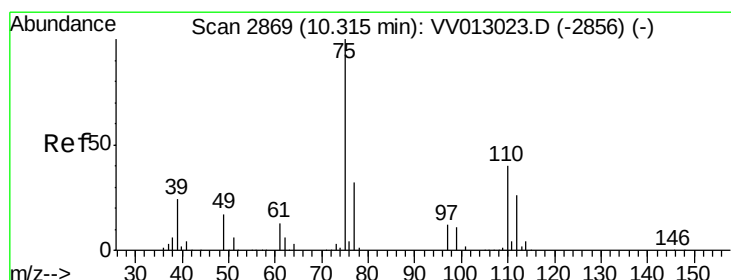
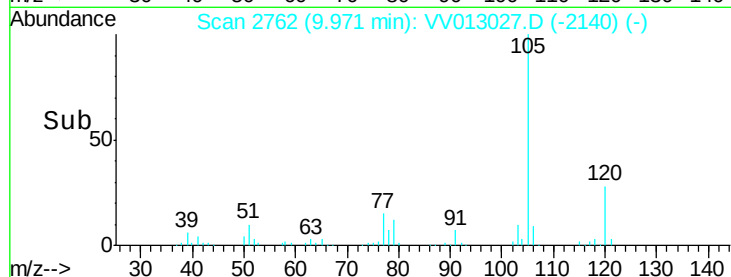
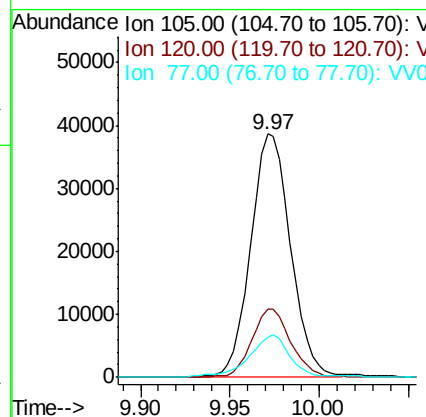
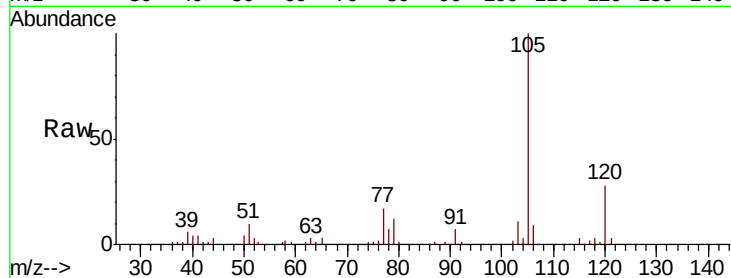
ClientSampled :

MDL03

Tot Ion:	105	Resp:	60444
Ion Ratio	Lower	Upper	
105	100		
120	27.4	21.1	31.7
77	18.2	12.3	18.5

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#61

1,2,3-Trichloropropane

Concen: 2.207 ug/L

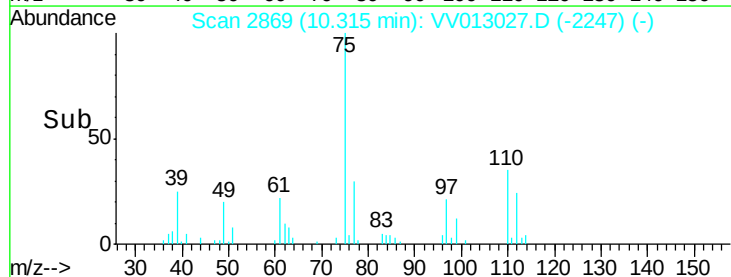
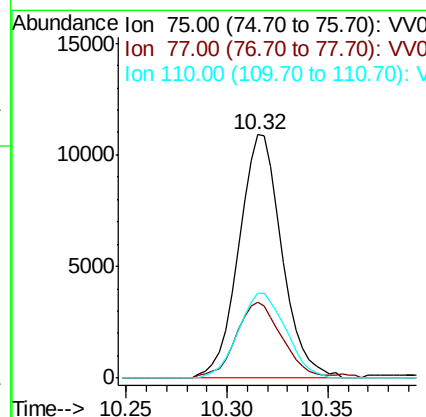
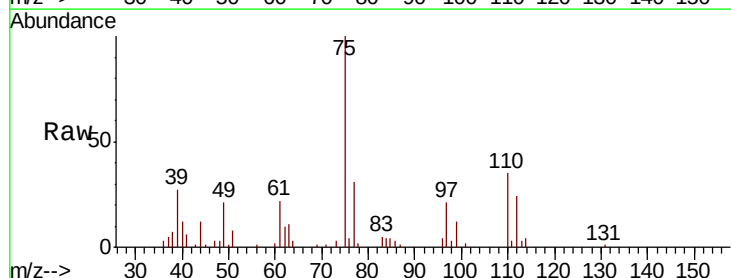
RT: 10.32 min Scan# 2869

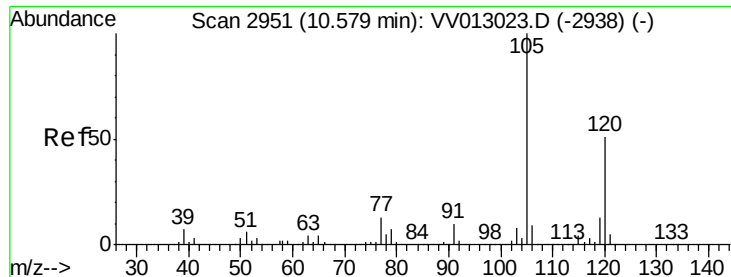
Delta R.T. -0.00 min

Lab File: VV013027.D

Acq: 02 Oct 2019 11:50

Tgt Ion:	75	Resp:	16312
Ion Ratio	Lower	Upper	
75	100		
77	33.5	25.4	38.2
110	38.3	31.7	47.5





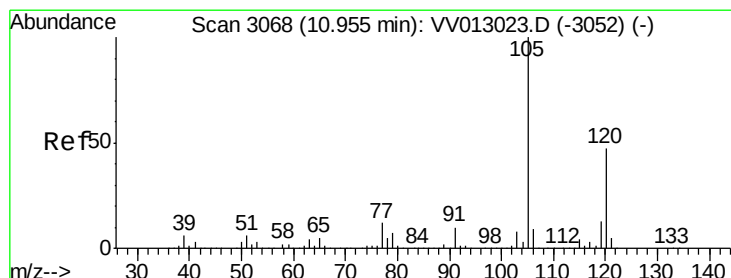
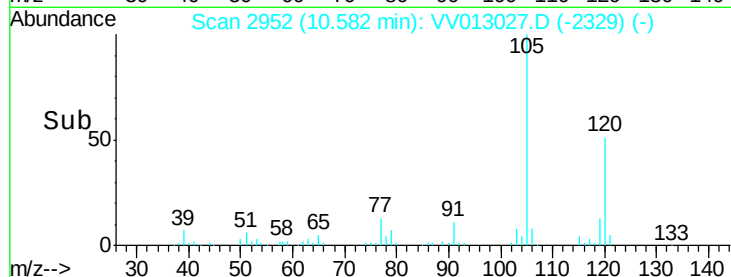
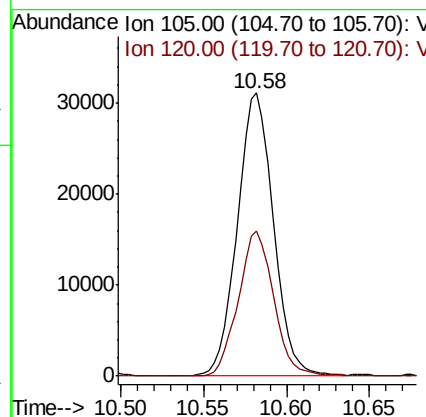
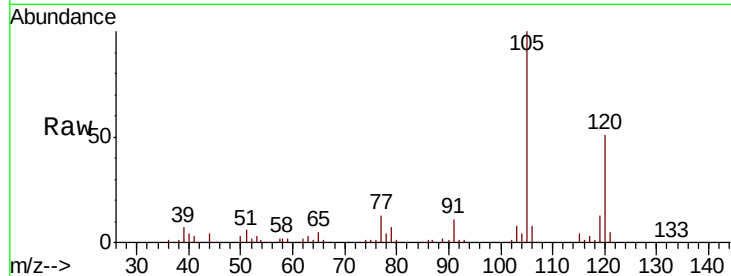
#62
 1,3,5-Trimethylbenzene
 Concen: 1.497 ug/L
 RT: 10.58 min Scan# 2952
 Delta R.T. 0.00 min
 Lab File: VV013027.D
 Acq: 02 Oct 2019 11:50

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Tot Ion:105 Resp: 47213
 Ion Ratio Lower Upper
 105 100
 120 50.1 40.6 61.0

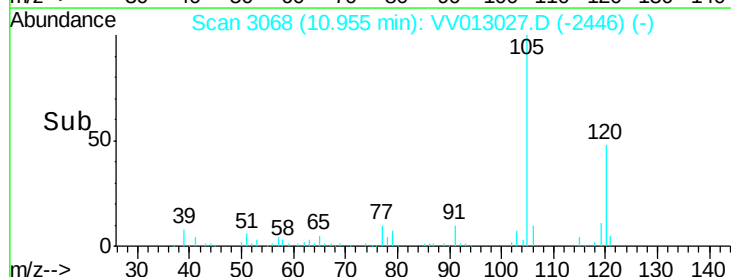
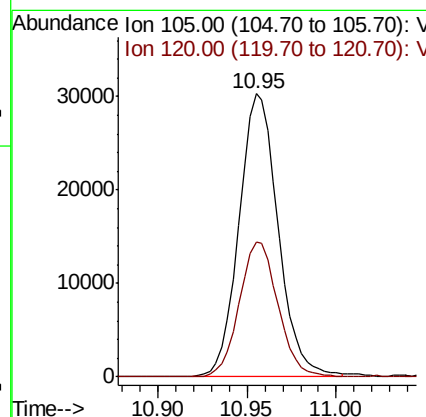
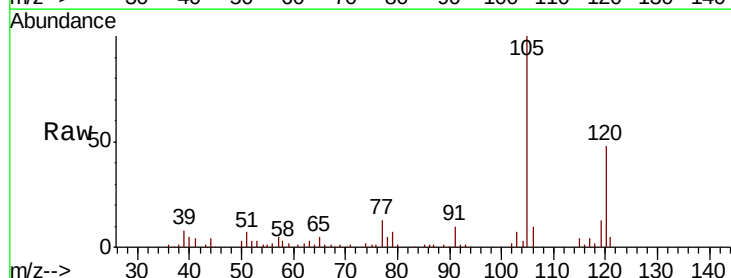
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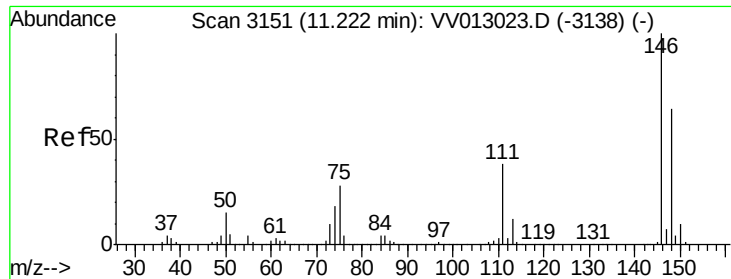
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#63
 1,2,4-Trimethylbenzene
 Concen: 1.459 ug/L
 RT: 10.95 min Scan# 3068
 Delta R.T. -0.00 min
 Lab File: VV013027.D
 Acq: 02 Oct 2019 11:50

Tgt Ion:105 Resp: 46201
 Ion Ratio Lower Upper
 105 100
 120 47.0 37.1 55.7





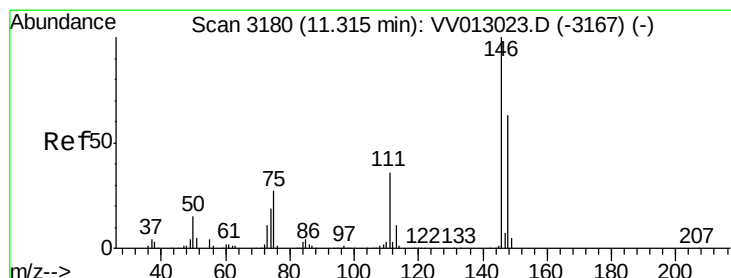
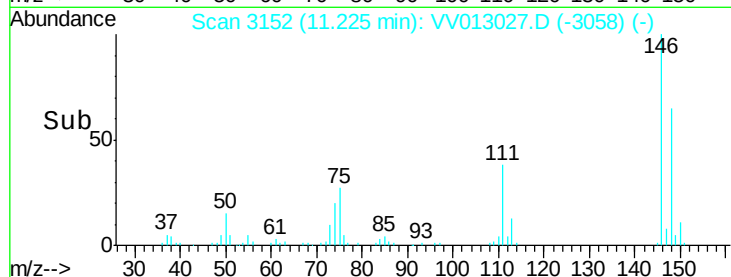
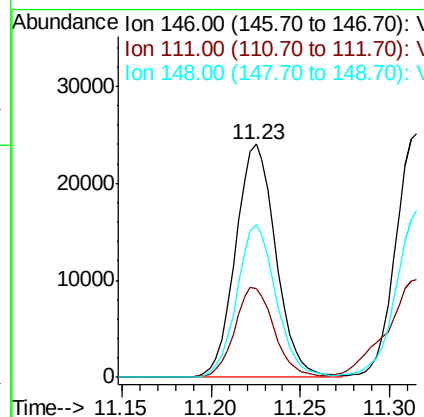
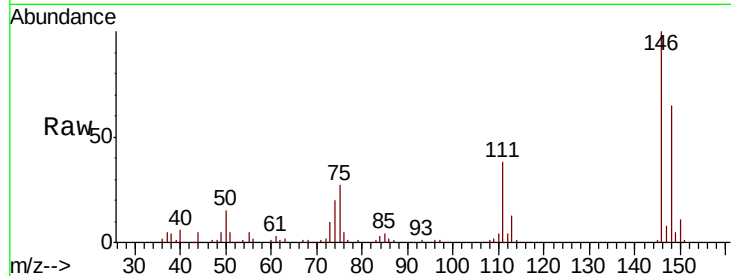
#64
 1,3-Dichlorobenzene
 Concen: 1.841 ug/L
 RT: 11.23 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV013027.D
 Acq: 02 Oct 2019 11:50

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.3	27.0	50.2
148	65.5	44.7	83.1

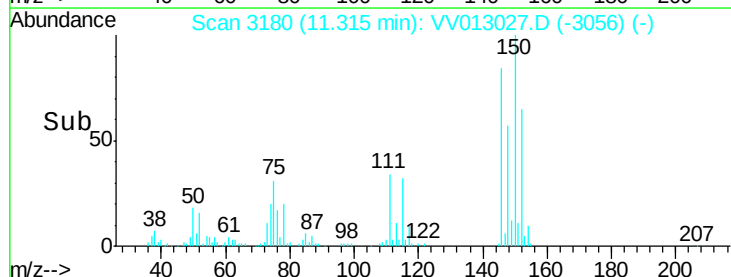
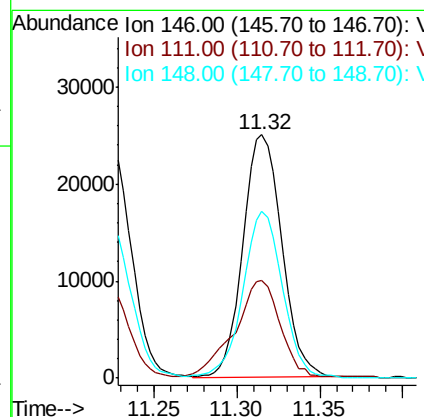
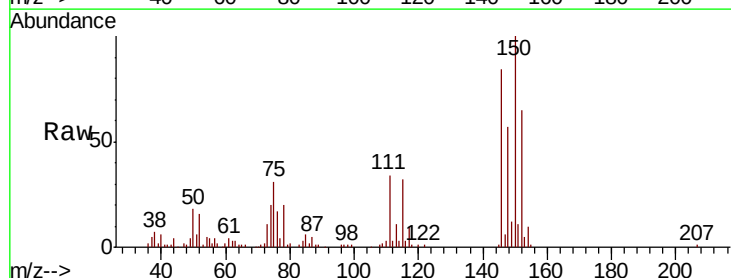
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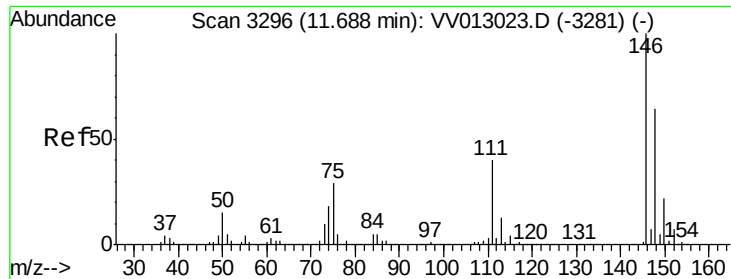
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#65
 1,4-Dichlorobenzene
 Concen: 1.895 ug/L
 RT: 11.32 min Scan# 3180
 Delta R.T. -0.00 min
 Lab File: VV013027.D
 Acq: 02 Oct 2019 11:50

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.3	25.4	47.2
148	68.5	44.2	82.2





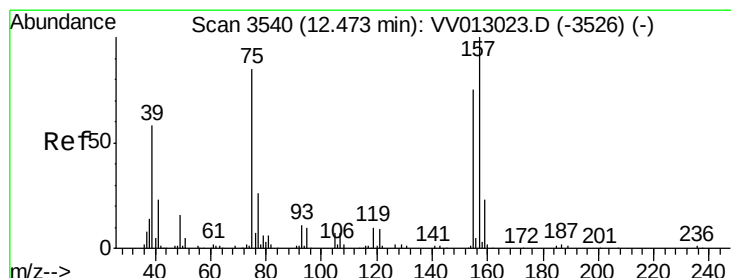
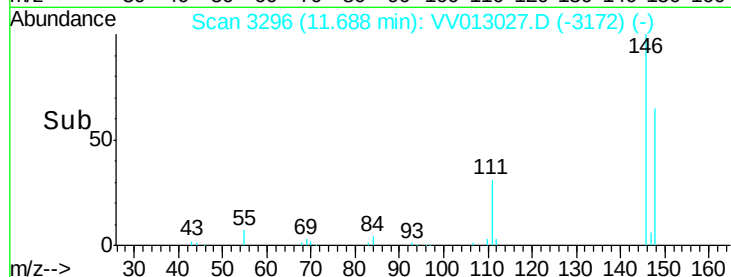
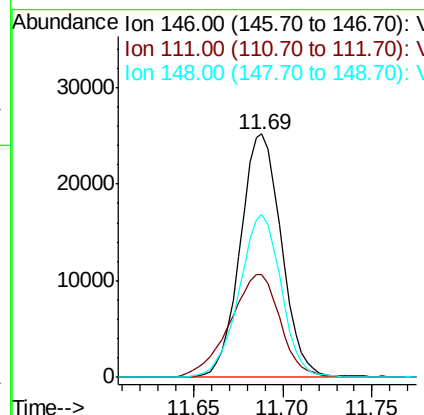
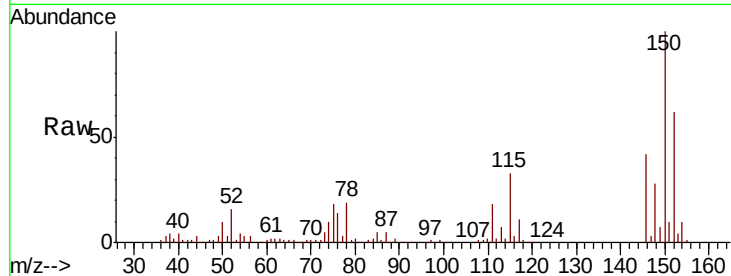
#67
 1,2-Dichlorobenzene
 Concen: 2.060 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. -0.00 min
 Lab File: VV013027.D
 Acq: 02 Oct 2019 11:50

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.1	32.0	48.0
148	66.9	50.8	76.2

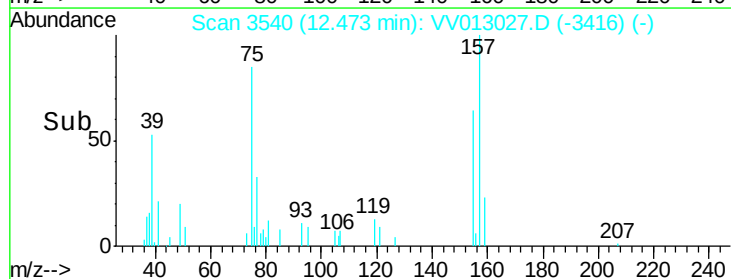
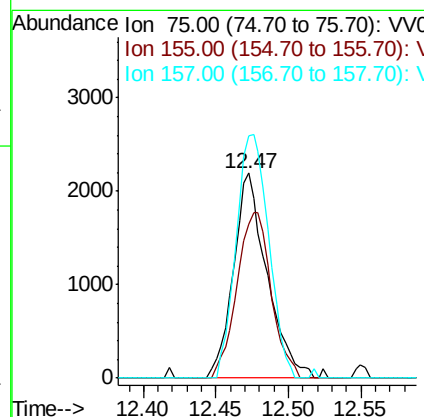
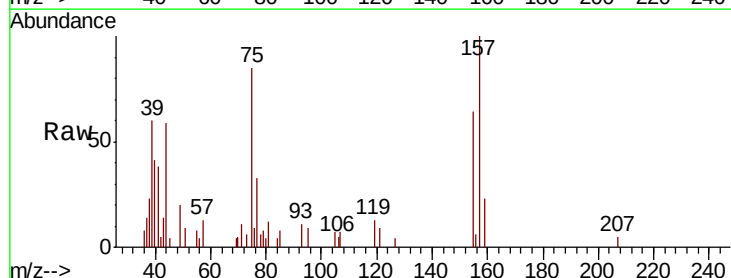
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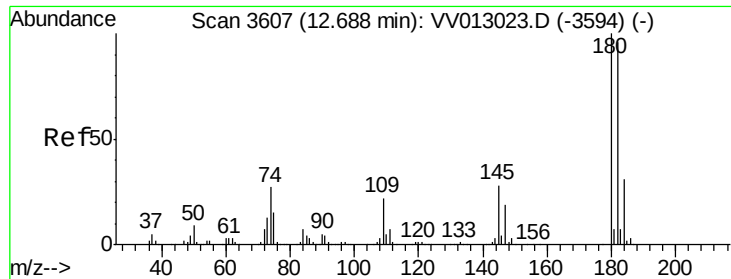
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.205 ug/L
 RT: 12.47 min Scan# 3540
 Delta R.T. -0.00 min
 Lab File: VV013027.D
 Acq: 02 Oct 2019 11:50

Tgt Ion	Ratio	Lower	Upper
75	100		
155	75.3	74.4	111.6
157	118.0	95.8	143.6





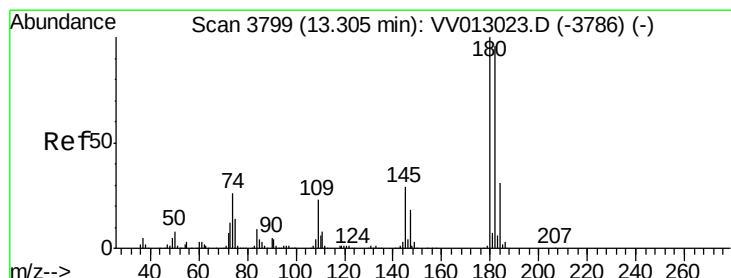
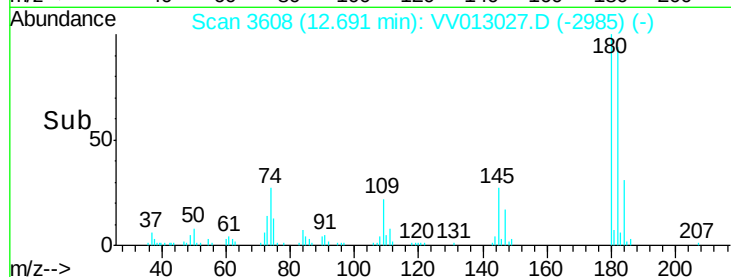
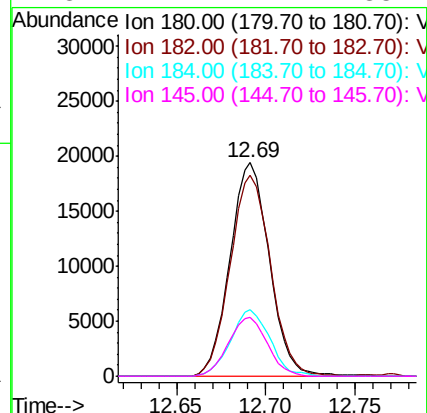
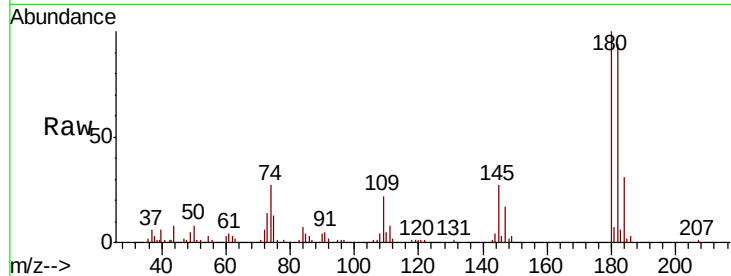
#69
 1,3,5-Trichlorobenzene
 Concen: 1.805 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV013027.D
 Acq: 02 Oct 2019 11:50

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Resp	Lower	Upper
180	100	29855		
182	96.6		76.6	115.0
184	31.0		24.6	37.0
145	27.2		22.2	33.4

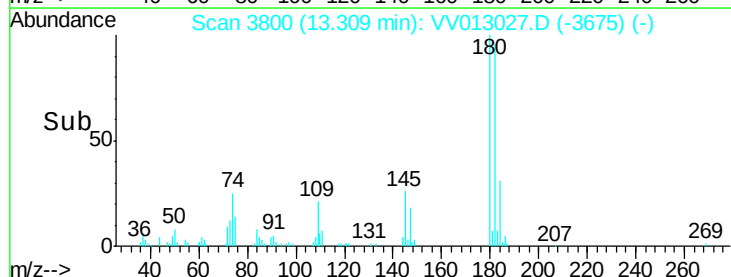
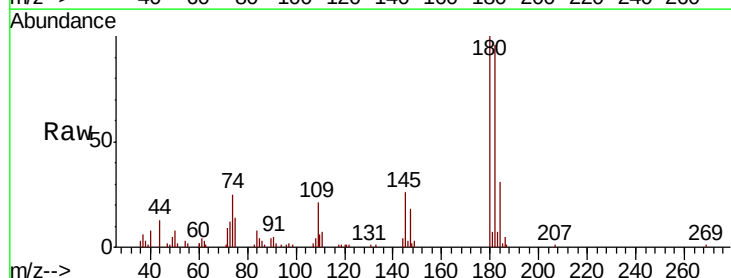
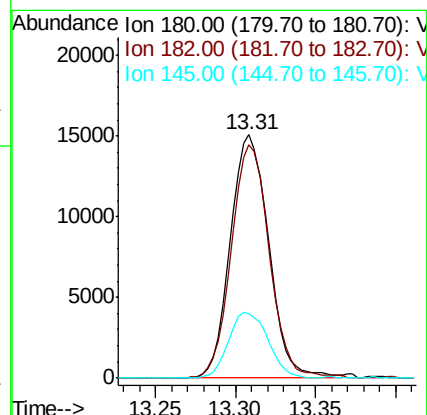
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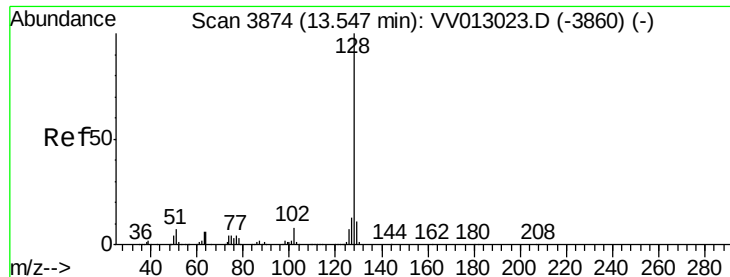
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#70
 1,2,4-trichlorobenzene
 Concen: 1.731 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV013027.D
 Acq: 02 Oct 2019 11:50

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	24757		
182	94.0		76.0	114.0
145	27.7		22.5	33.7





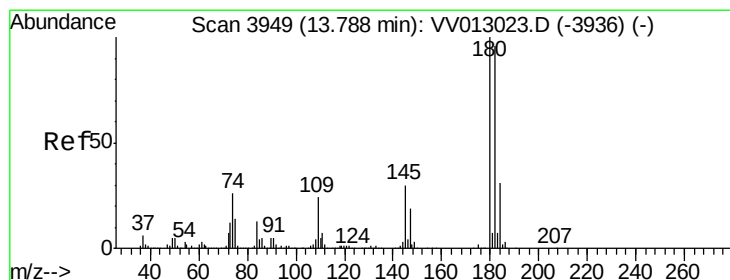
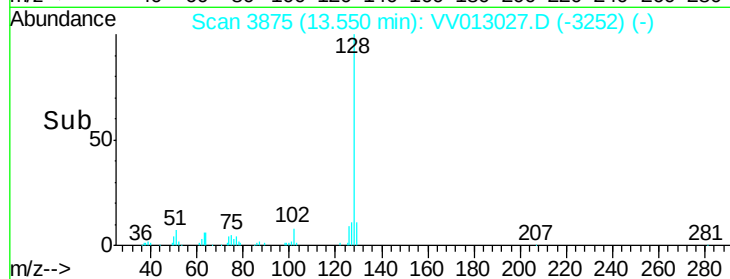
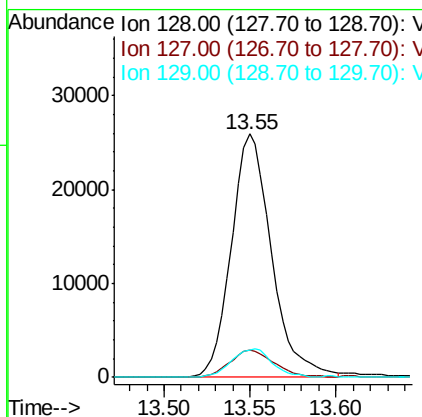
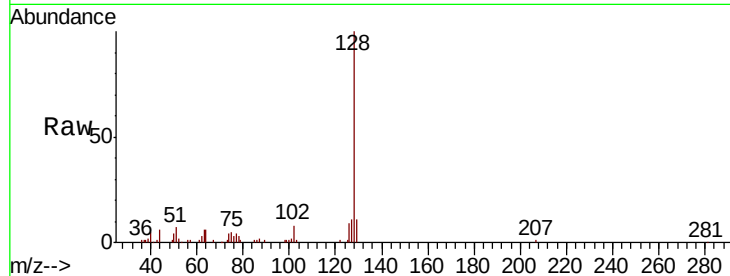
#71
Naphthalene
Concen: 1.514 ug/L
RT: 13.55 min Scan# 3875
Delta R.T. 0.00 min
Lab File: VV013027.D
Acq: 02 Oct 2019 11:50

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.3	10.2	15.4
129	12.0	8.6	12.8

Manual Integrations
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#72
1,2,3-Trichlorobenzene
Concen: 1.642 ug/L
RT: 13.79 min Scan# 3950
Delta R.T. 0.00 min
Lab File: VV013027.D
Acq: 02 Oct 2019 11:50

Tgt Ion	Ratio	Lower	Upper
180	100		
182	102.8	76.7	115.1
145	33.2	24.2	36.4

