

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV080219\
 Data File : VV012095.D
 Acq On : 02 Aug 2019 11:23
 Operator : SY/MD
 Sample : MDL06
 Misc : 25ML/MSVOA V/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL06

Manual Integrations
 APPROVED

MMDadoda
 8/6/2019 9:56:01 AM

Quant Time: Aug 03 00:05:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVTR072919WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Aug 02 23:54:58 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	135953	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	126035	5.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	69143	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	33484	4.35	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	87.00%
7) Chloroethane-d5	1.58	69	26517	4.91	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	98.20%
11) 1,1-Dichloroethene-d2	2.13	63	53446	3.83	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	76.60%
20) 2-Butanone-d5	3.96	46	78862	45.13	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	90.26%
24) Chloroform-d	4.40	84	88457	5.32	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	106.40%
26) 1,2-Dichloroethane-d4	5.08	65	47799	5.31	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.20%
32) Benzene-d6	5.10	84	166984	5.26	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	105.20%
36) 1,2-Dichloropropane-d6	6.12	67	43989	4.96	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.20%
41) Toluene-d8	7.36	98	163043	5.29	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	105.80%
43) trans-1,3-Dichloropropene-	7.66	79	21059	5.43	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	108.60%
46) 2-Hexanone-d5	8.14	63	64204	46.76	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	93.52%
56) 1,1,2,2-Tetrachloroethane-	10.26	84	32537	4.88	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.60%
66) 1,2-Dichlorobenzene-d4	11.67	152	66682	5.42	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	108.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	3467	0.224	ug/L	93
3) Chloromethane	1.25	50	2034	0.229	ug/L	85
5) Vinyl chloride	1.32	62	1974	0.218	ug/L #	52
6) Bromomethane	1.54	94	1199	0.221	ug/L	94
8) Chloroethane	1.60	64	1019	0.207	ug/L	84
9) Trichlorofluoromethane	1.77	101	3609	0.233	ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	2154	0.319	ug/L	89
12) 1,1-Dichloroethene	2.14	96	1974	0.316	ug/L #	1
13) Acetone	2.22	43	3178	3.305	ug/L	61
14) Carbon disulfide	2.32	76	4367	0.250	ug/L #	71
15) Methyl Acetate	2.46	43	482m	0.244	ug/L	
16) Methylene chloride	2.54	84	2607	0.407	ug/L	85
17) Methyl tert-butyl Ether	2.81	73	5102	0.260	ug/L #	94
18) trans-1,2-Dichloroethene	2.79	96	2160	0.240	ug/L	94
19) 1,1-Dichloroethane	3.23	63	3961	0.246	ug/L #	92
21) 2-Butanone	4.06	43	3851m	2.029	ug/L	
22) cis-1,2-Dichloroethene	3.96	96	2295	0.239	ug/L	92

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Manual Integrations
 APPROVED

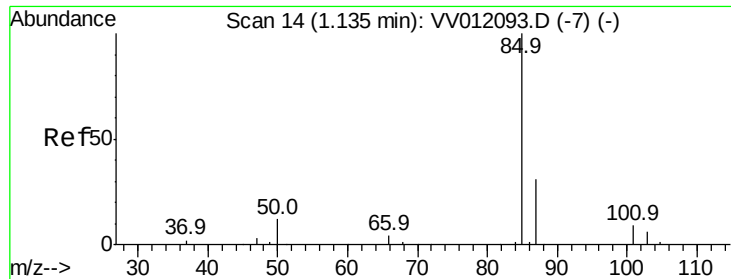
MMDadoda
 8/6/2019 9:56:01 AM

Quant Time: Aug 03 00:05:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVTR072919WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Aug 02 23:54:58 2019
 Response via : Initial Calibration

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

23) Bromochloromethane	4.30	128	1066	0.254	ug/L #	65
25) Chloroform	4.43	83	7523	0.373	ug/L	95
27) 1,2-Dichloroethane	5.19	62	3234	0.290	ug/L #	76
29) 1,1,1-Trichloroethane	4.65	97	4414	0.283	ug/L #	83
30) Cyclohexane	4.72	56	2944	0.221	ug/L #	80
31) Carbon tetrachloride	4.87	117	4226	0.301	ug/L	96
33) Benzene	5.15	78	8357	0.244	ug/L	100
34) Trichloroethene	5.96	95	2723m	0.279	ug/L	
35) Methylcyclohexane	6.17	83	3848	0.252	ug/L	95
37) 1,2-Dichloropropane	6.22	63	2014	0.254	ug/L #	89
38) Bromodichloromethane	6.55	83	3075	0.275	ug/L #	89
39) cis-1,3-Dichloropropene	7.07	75	2802	0.226	ug/L	100
40) 4-Methyl-2-pentanone	7.28	43	9832	2.201	ug/L #	86
42) Toluene	7.43	91	10375	0.273	ug/L	100
44) trans-1,3-Dichloropropene	7.69	75	2458m	0.245	ug/L	
45) 1,1,2-Trichloroethane	7.88	97	1493	0.247	ug/L	92
47) Tetrachloroethene	8.02	164	2193	0.257	ug/L	94
48) 2-Hexanone	8.19	43	7609	2.410	ug/L #	92
49) Dibromochloromethane	8.29	129	2303	0.311	ug/L	81
50) 1,2-Dibromoethane	8.40	107	1387	0.246	ug/L #	95
51) Chlorobenzene	8.92	112	6582	0.259	ug/L	96
52) Ethylbenzene	9.05	91	10860	0.250	ug/L	92
53) m,p-xylene	9.18	106	3868	0.234	ug/L	94
54) o-xylene	9.59	106	3628	0.232	ug/L	76
55) Styrene	9.60	104	6053	0.230	ug/L	100
57) 1,1,2,2-Tetrachloroethane	10.28	83	1721	0.265	ug/L #	89
59) Bromoform	9.77	173	1095	0.262	ug/L #	88
60) Isopropylbenzene	9.97	105	10505	0.238	ug/L	98
61) 1,2,3-Trichloropropane	10.32	75	1170	0.232	ug/L #	92
62) 1,3,5-Trimethylbenzene	10.58	105	8166	0.224	ug/L	97
63) 1,2,4-Trimethylbenzene	10.95	105	7967	0.220	ug/L	87
64) 1,3-Dichlorobenzene	11.23	146	5331	0.242	ug/L	90
65) 1,4-Dichlorobenzene	11.32	146	6001	0.268	ug/L	91
67) 1,2-Dichlorobenzene	11.69	146	5467	0.273	ug/L	94
68) 1,2-Dibromo-3-chloropropan	12.48	75	345	0.332	ug/L #	72
69) 1,3,5-Trichlorobenzene	12.69	180	5027	0.276	ug/L	94
70) 1,2,4-trichlorobenzene	13.31	180	3655	0.254	ug/L	95
71) Naphthalene	13.55	128	4313	0.216	ug/L #	84
72) 1,2,3-Trichlorobenzene	13.79	180	3122	0.245	ug/L	93

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



#2

Dichlorodifluoromethane

Concen: 0.224 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012095.D

Acq: 02 Aug 2019 11:23

Tot Ion: 85 Resp: 3467

Ion Ratio Lower Upper

85 100

87 36.4 25.9 38.9

Instrument :

MSVOA_V

ClientSampleId :

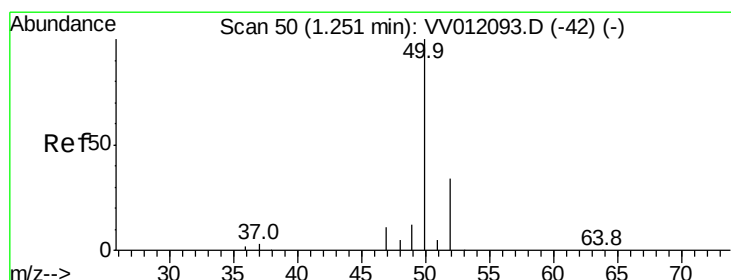
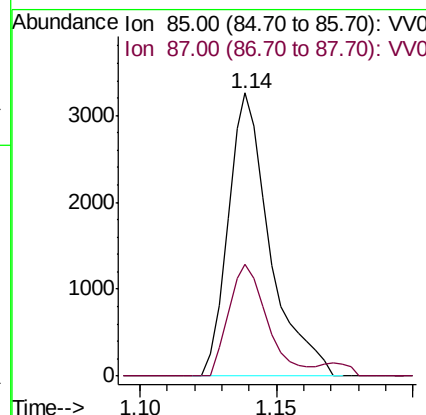
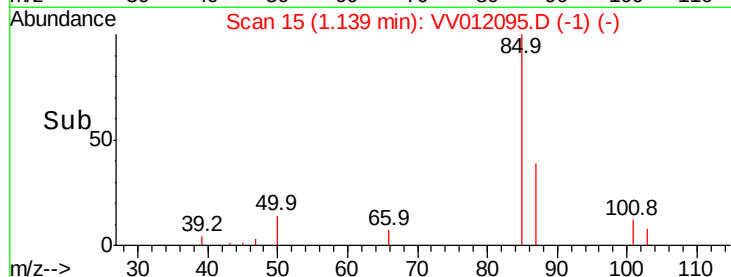
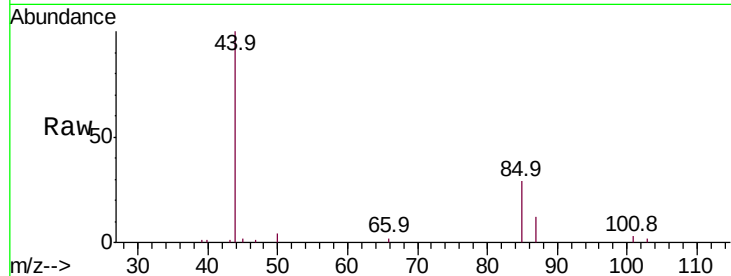
MDL06

Manual Integrations

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8/6/2019 9:56:01 AM



#3

Chloromethane

Concen: 0.229 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV012095.D

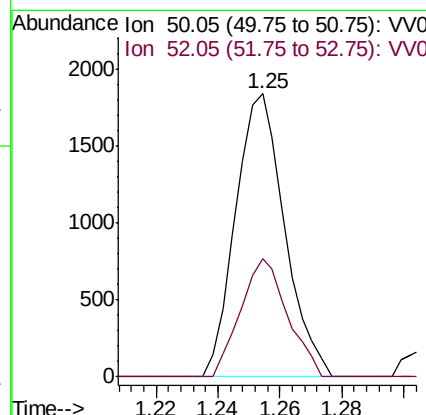
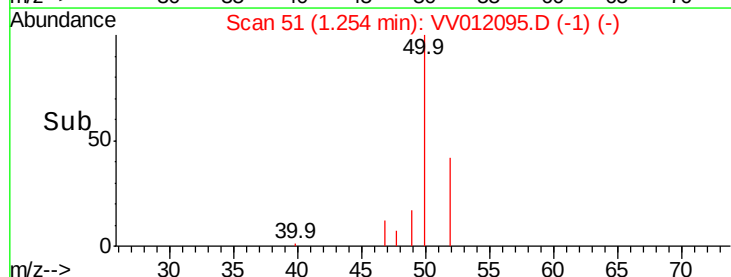
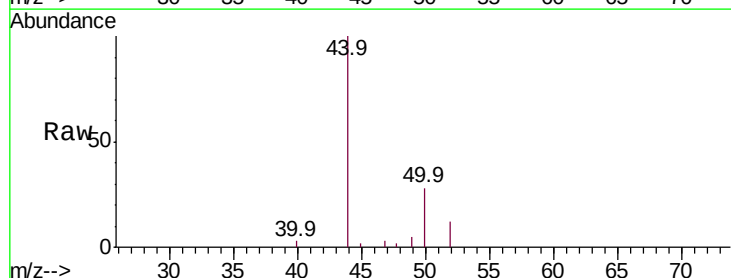
Acq: 02 Aug 2019 11:23

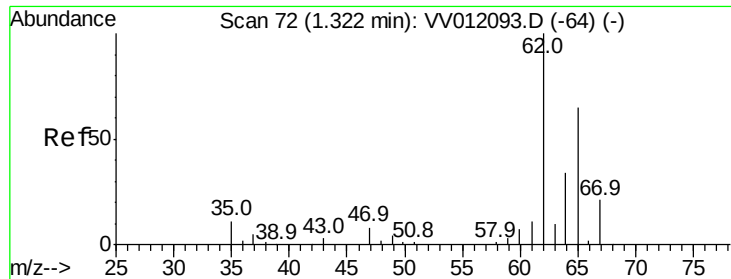
Tgt Ion: 50 Resp: 2034

Ion Ratio Lower Upper

50 100

52 41.8 23.4 43.4





#5

Vinyl chloride

Concen: 0.218 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV012095.D

Acq: 02 Aug 2019 11:23

Instrument :

MSVOA_V

ClientSampleId :

MDL06

Tot Ion: 62 Resp: 1974

Ion Ratio Lower Upper

62 100

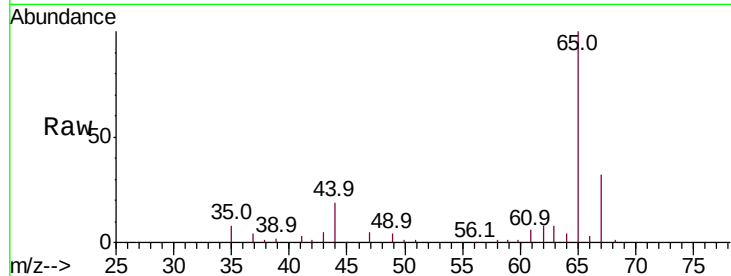
64 57.9 22.0 41.0#

Manual Integrations

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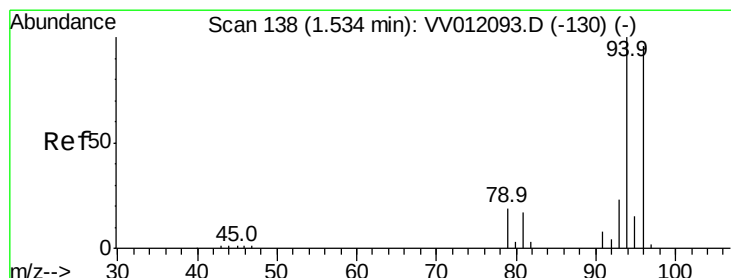
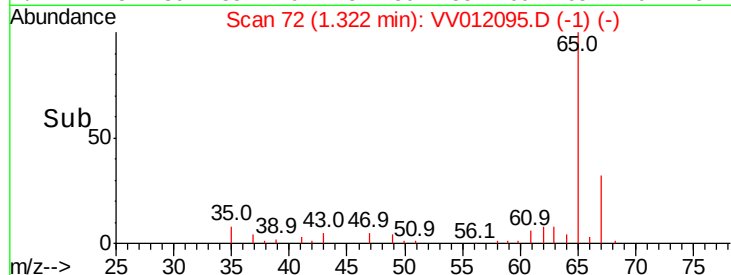
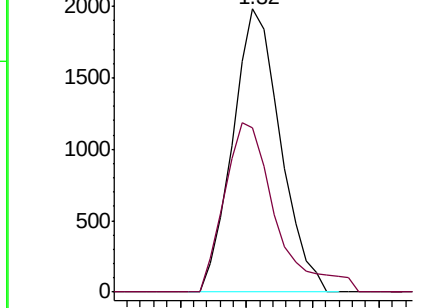
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Abundance Ion 62.00 (61.70 to 62.70): VV012093.D (-64) (-)

Ion 64.10 (63.80 to 64.80): VV012093.D (-64) (-)



#6

Bromomethane

Concen: 0.221 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV012095.D

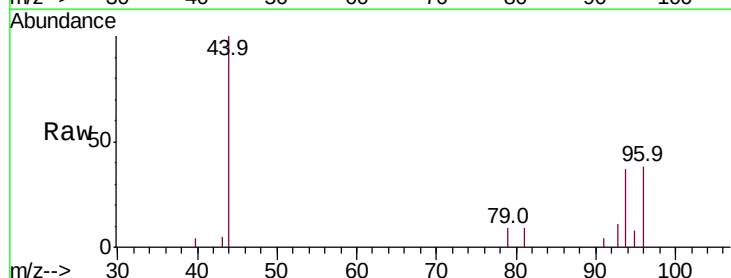
Acq: 02 Aug 2019 11:23

Tgt Ion: 94 Resp: 1199

Ion Ratio Lower Upper

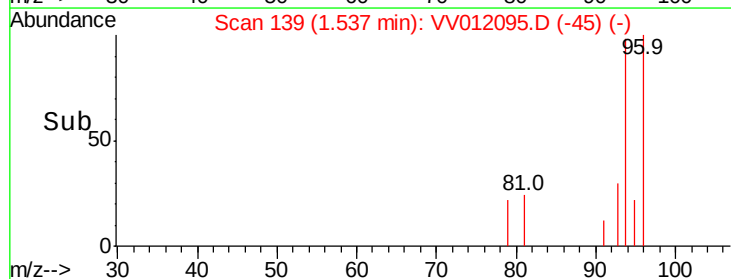
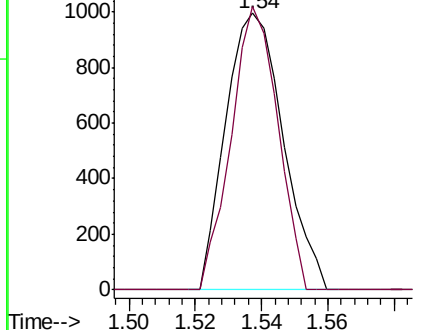
94 100

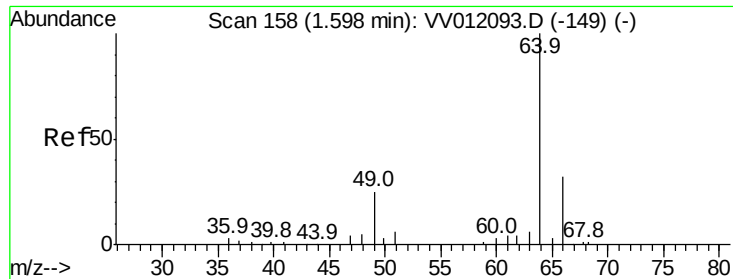
96 102.3 67.8 125.8



Abundance Ion 94.00 (93.70 to 94.70): VV012093.D (-130) (-)

Ion 96.00 (95.70 to 96.70): VV012093.D (-130) (-)





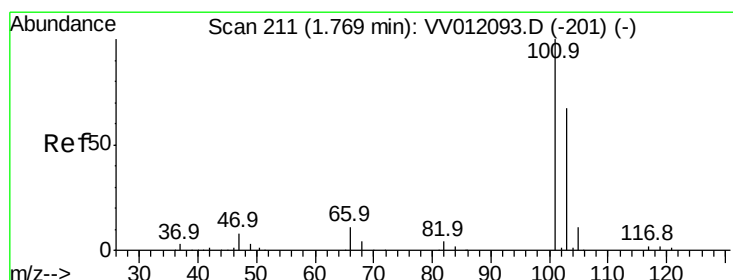
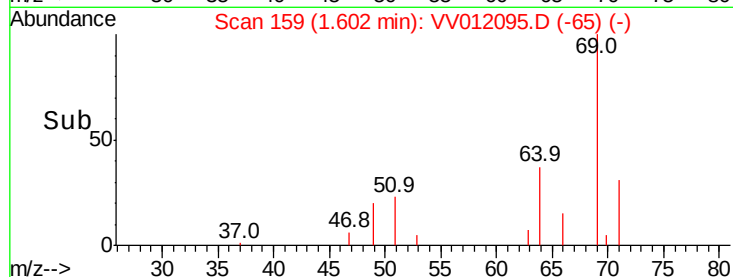
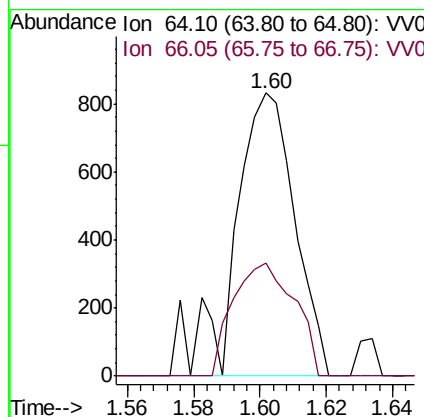
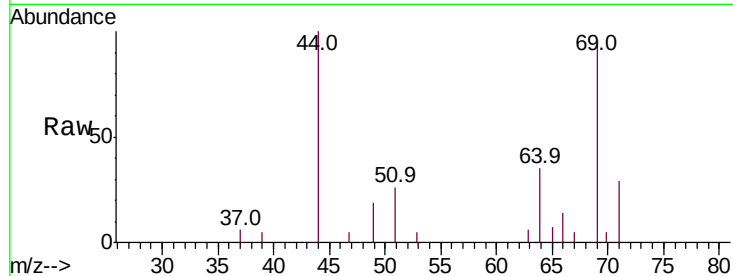
#8
Chloroethane
Concen: 0.207 ug/L
RT: 1.60 min Scan# 159
Delta R.T. 0.00 min
Lab File: VV012095.D
Acq: 02 Aug 2019 11:23

Instrument :
MSVOA_V
ClientSampleId :
MDL06

Tot Ion: 64 Resp: 1019
Ion Ratio Lower Upper
64 100
66 39.8 21.7 40.3

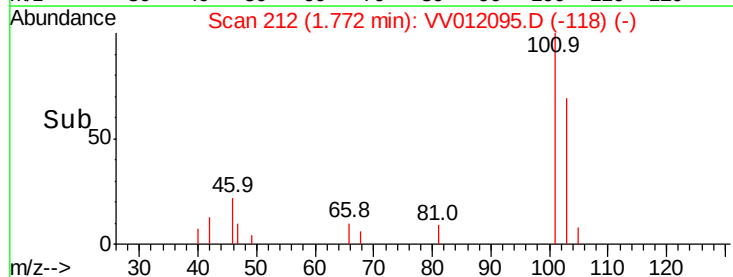
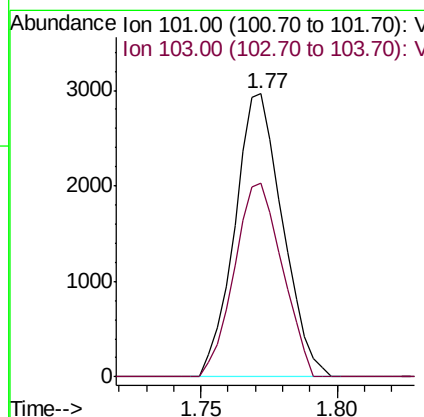
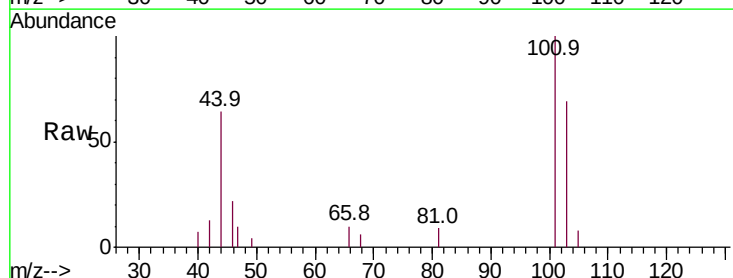
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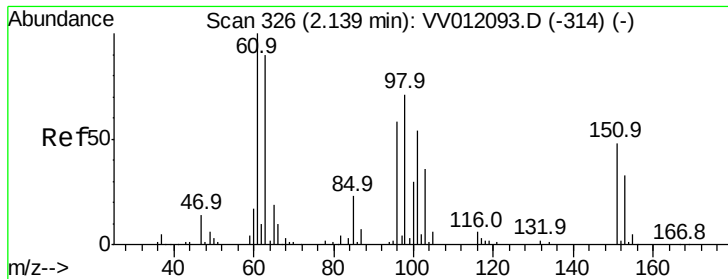
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8/6/2019 9:56:01 AM



#9
Trichlorofluoromethane
Concen: 0.233 ug/L
RT: 1.77 min Scan# 212
Delta R.T. 0.00 min
Lab File: VV012095.D
Acq: 02 Aug 2019 11:23

Tgt Ion: 101 Resp: 3609
Ion Ratio Lower Upper
101 100
103 68.4 52.6 79.0





#10

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

Concen: 0.319 ug/L

RT: 2.14 min Scan# 327

Delta R.T. 0.00 min

Lab File: VV012095.D

Acq: 02 Aug 2019 11:23

Instrument :

MSVOA_V

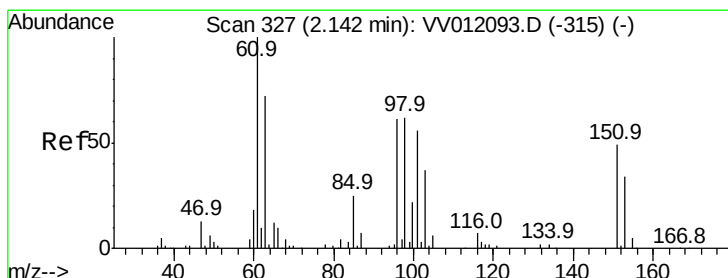
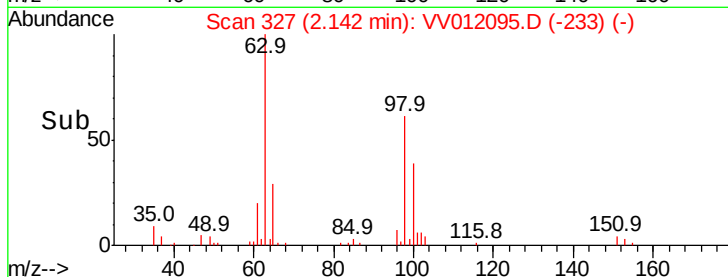
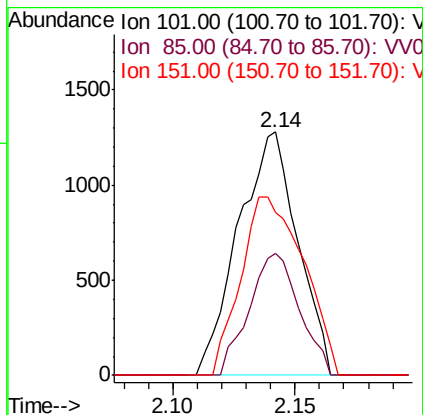
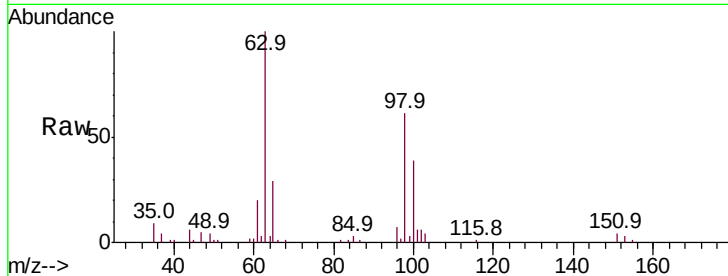
ClientSampleId :

MDL06

Tot Ion:	101	Resp:	2154
Ion Ratio	Lower	Upper	
101	100		
85	42.5	37.8	56.8
151	77.8	71.4	107.2

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#12

1,1-Dichloroethene

Concen: 0.316 ug/L

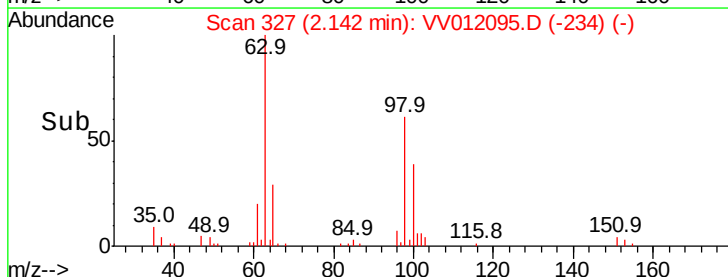
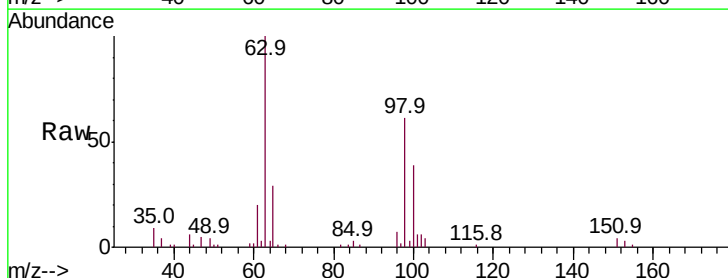
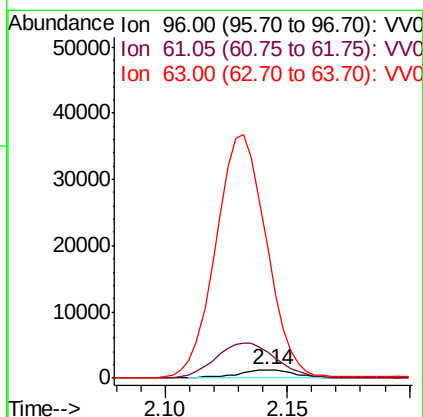
RT: 2.14 min Scan# 327

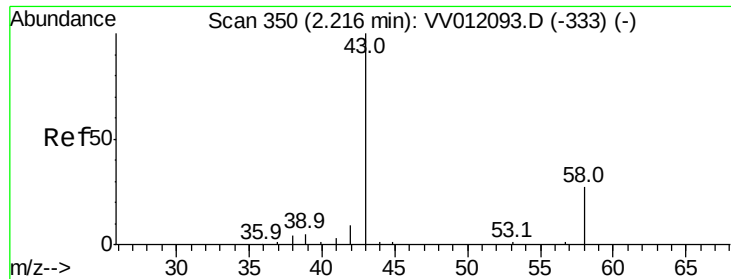
Delta R.T. -0.00 min

Lab File: VV012095.D

Acq: 02 Aug 2019 11:23

Tgt Ion:	96	Resp:	1974
Ion Ratio	Lower	Upper	
96	100		
61	302.4	127.8	237.4#
63	1501.5	92.7	172.3#





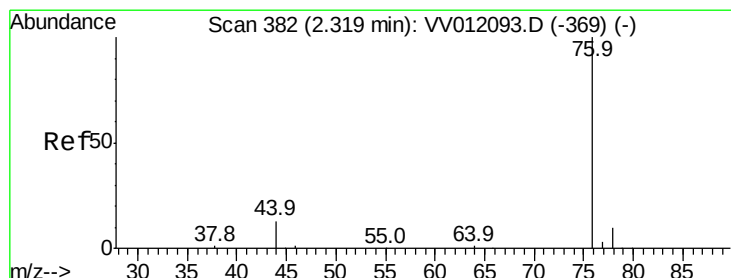
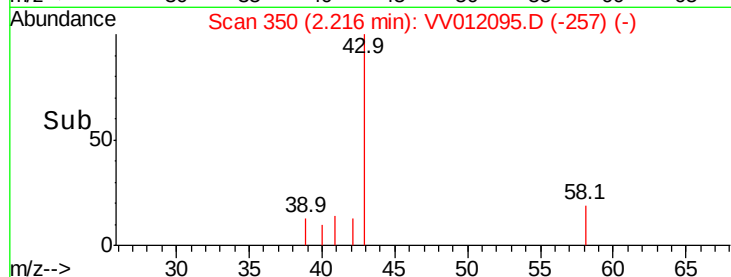
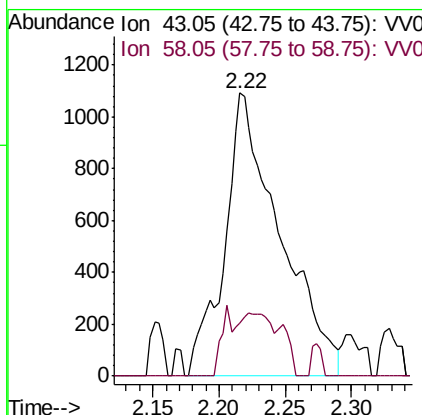
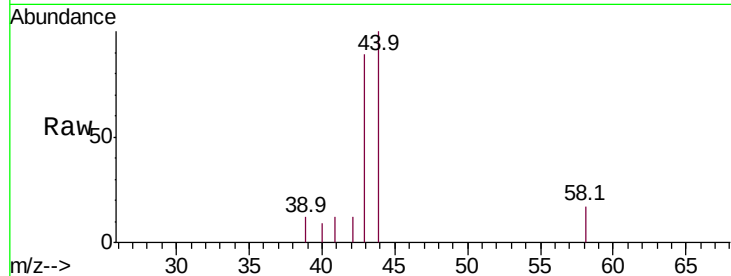
#13
Acetone
Concen: 3.305 ug/L
RT: 2.22 min Scan# 350
Delta R.T. -0.00 min
Lab File: VV012095.D
Acq: 02 Aug 2019 11:23

Instrument :
MSVOA_V
ClientSampleId :
MDL06

Tot Ion: 43 Resp: 3178
Ion Ratio Lower Upper
43 100
58 5.8 0.0 51.6

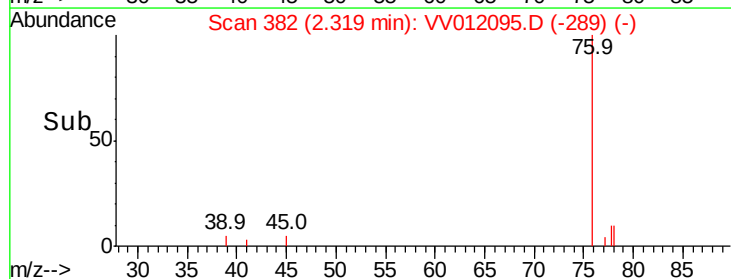
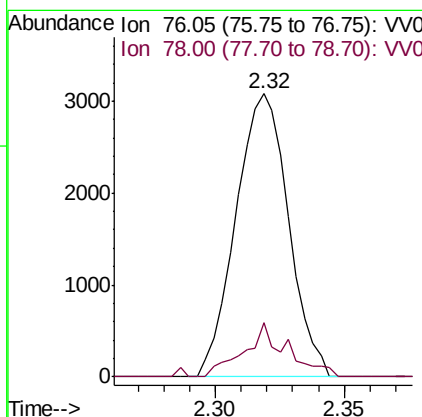
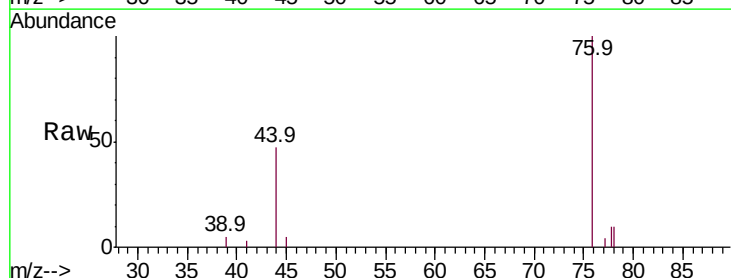
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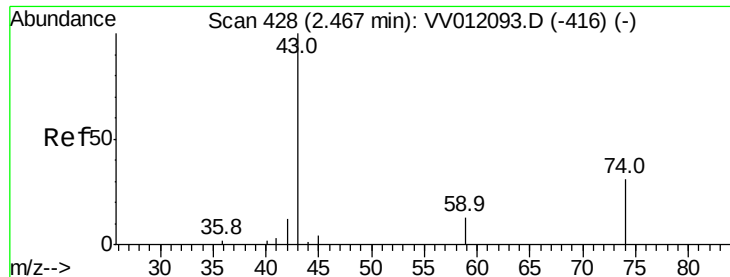
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8/6/2019 9:56:01 AM



#14
Carbon disulfide
Concen: 0.250 ug/L
RT: 2.32 min Scan# 382
Delta R.T. -0.00 min
Lab File: VV012095.D
Acq: 02 Aug 2019 11:23

Tgt Ion: 76 Resp: 4367
Ion Ratio Lower Upper
76 100
78 19.4 7.2 10.8#





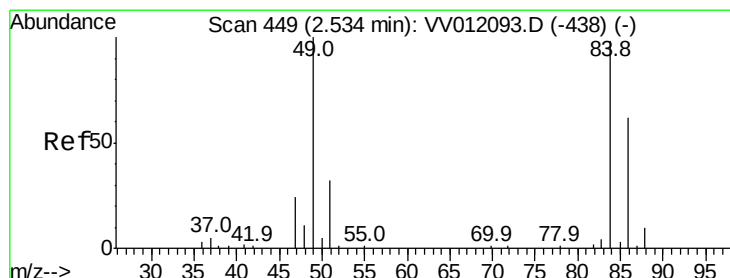
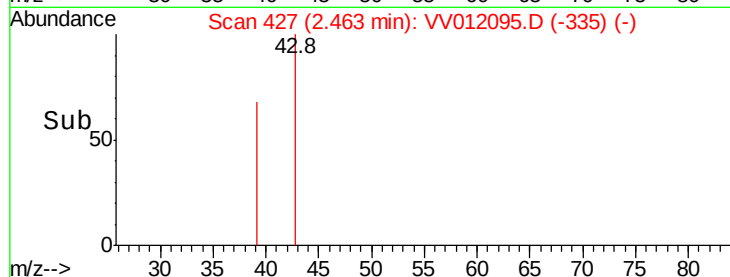
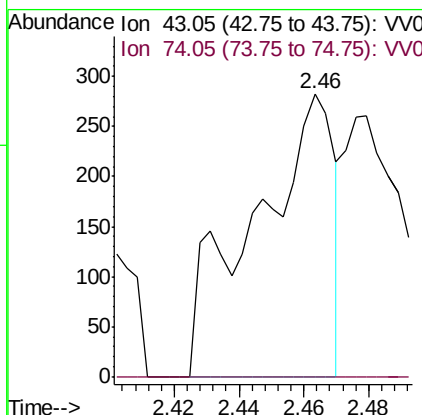
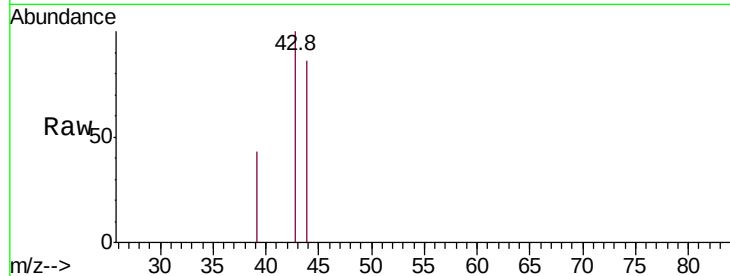
#15
Methvl Acetate
Concen: 0.244 ug/L m
RT: 2.46 min Scan# 427
Delta R.T. -0.00 min
Lab File: VV012095.D
Acq: 02 Aug 2019 11:23

Instrument :
MSVOA_V
ClientSampleId :
MDL06

Tot Ion: 43 Resp: 482
Ion Ratio Lower Upper
43 100
74 0.0 24.4 36.6#

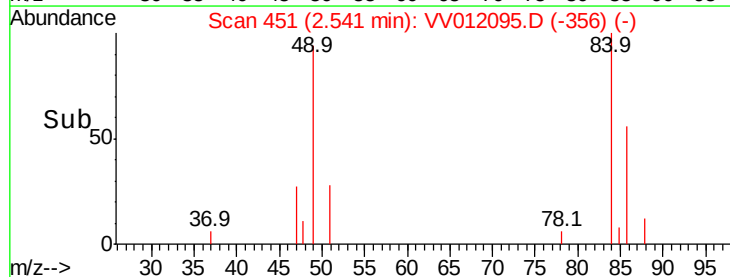
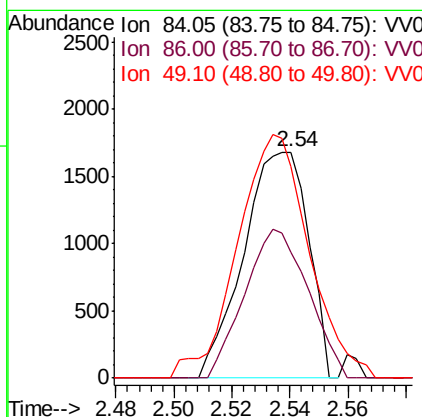
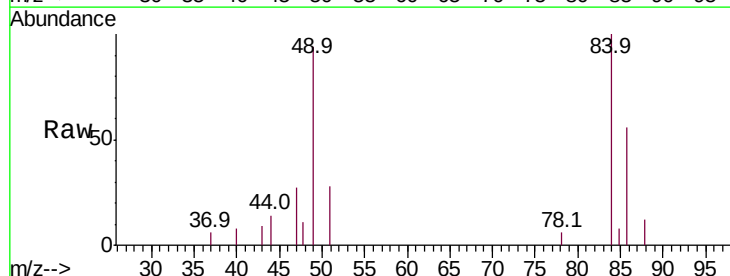
Manual Integrations
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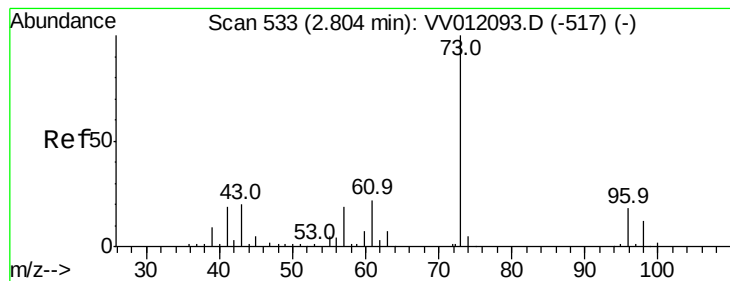
MMDadoda
8/6/2019 9:56:01 AM



#16
Methylene chloride
Concen: 0.407 ug/L
RT: 2.54 min Scan# 451
Delta R.T. 0.01 min
Lab File: VV012095.D
Acq: 02 Aug 2019 11:23

Tgt Ion: 84 Resp: 2607
Ion Ratio Lower Upper
84 100
86 55.9 44.9 83.3
49 93.5 78.6 146.0





#17

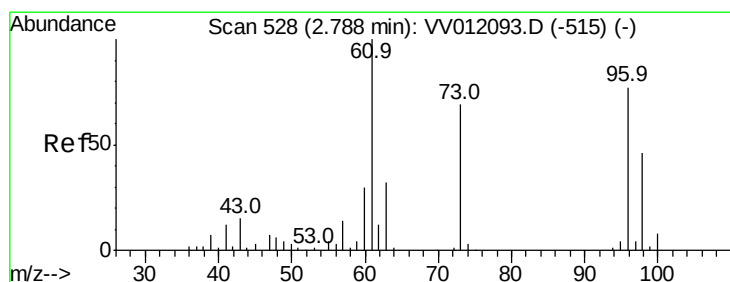
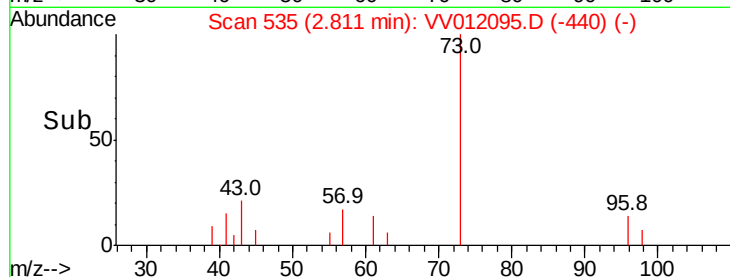
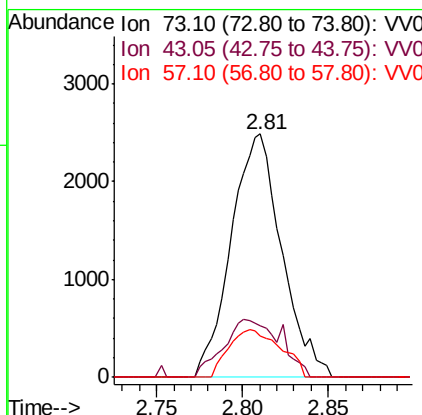
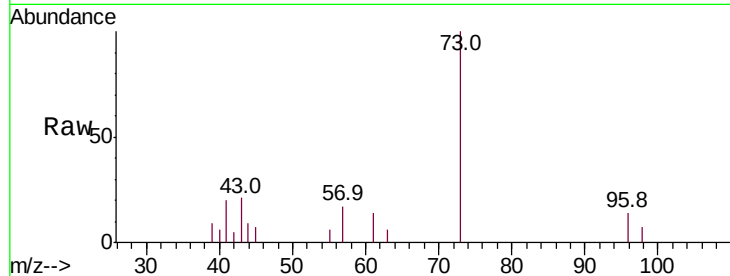
Methyl tert-butyl Ether
 Concen: 0.260 ug/L
 RT: 2.81 min Scan# 535
 Delta R.T. 0.01 min
 Lab File: VV012095.D
 Acq: 02 Aug 2019 11:23

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL06

Tot Ion: 73 Resp: 5102
 Ion Ratio Lower Upper
 73 100
 43 26.8 17.6 26.4#
 57 20.1 17.0 25.6

Manual Integrations
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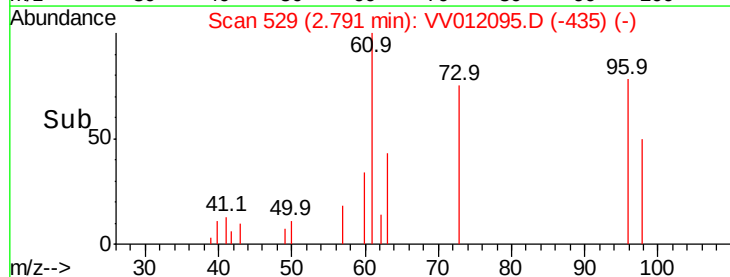
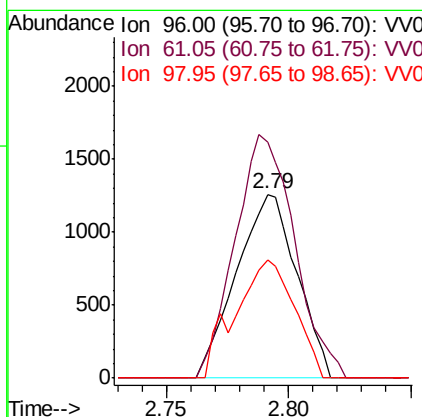
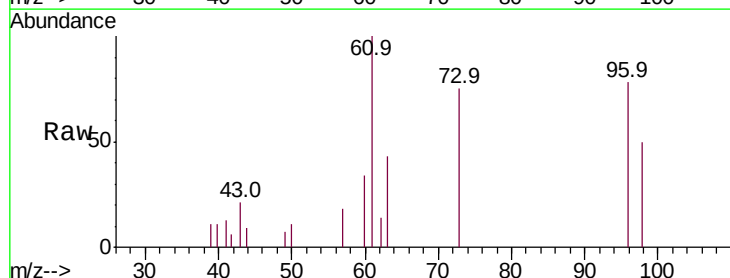
MMDadoda
 8/6/2019 9:56:01 AM

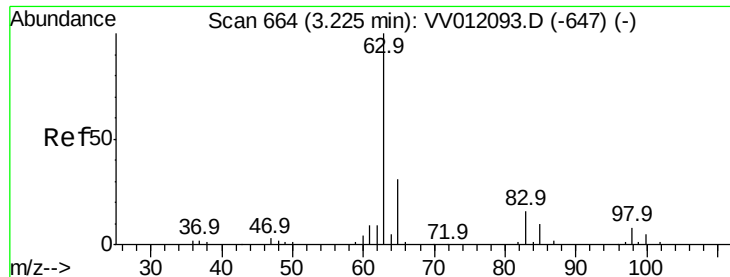


#18

trans-1,2-Dichloroethene
 Concen: 0.240 ug/L
 RT: 2.79 min Scan# 529
 Delta R.T. 0.00 min
 Lab File: VV012095.D
 Acq: 02 Aug 2019 11:23

Tgt Ion: 96 Resp: 2160
 Ion Ratio Lower Upper
 96 100
 61 128.5 97.2 180.6
 98 64.3 45.0 83.6





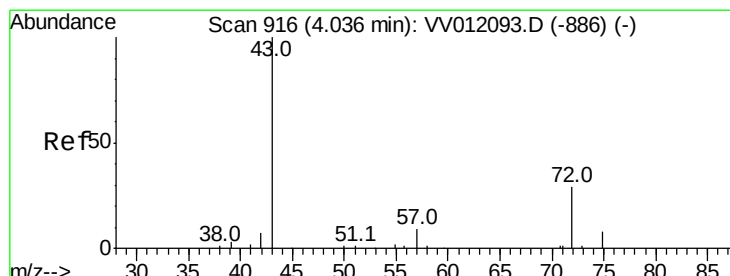
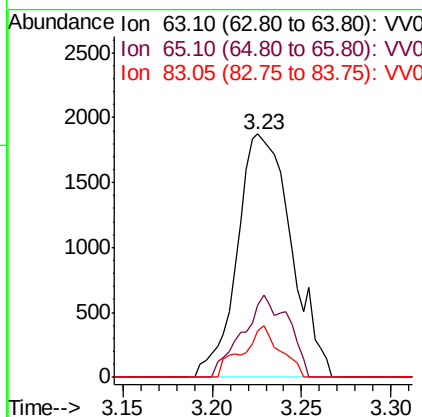
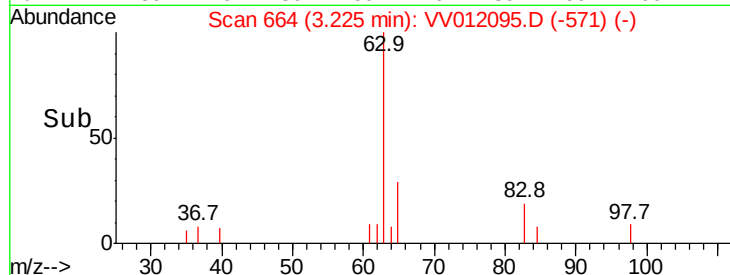
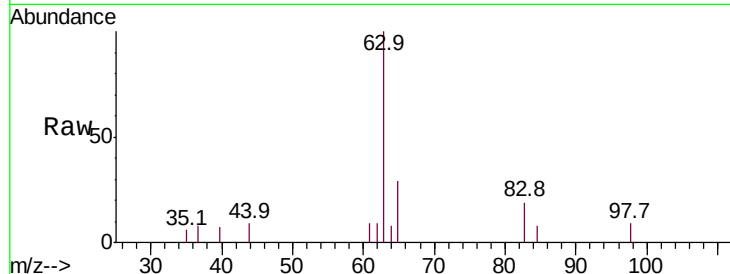
#19
 1,1-Dichloroethane
 Concen: 0.246 ug/L
 RT: 3.23 min Scan# 664
 Delta R.T. -0.00 min
 Lab File: VV012095.D
 Acq: 02 Aug 2019 11:23

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL06

Tot Ion:	63	Resp:	3961
Ion	Ratio	Lower	Upper
63	100		
65	29.5	23.0	42.6
83	19.1	9.7	17.9

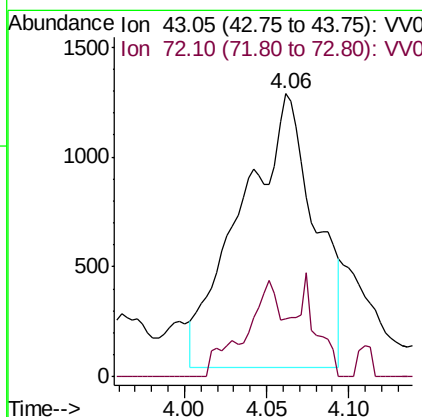
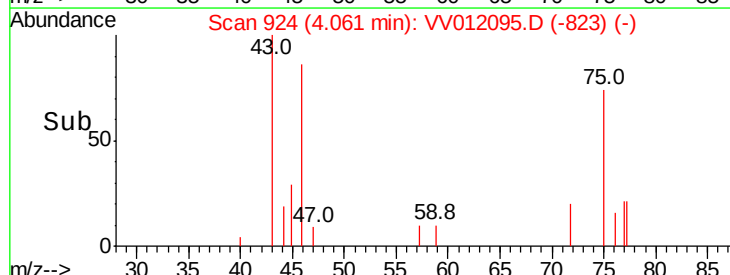
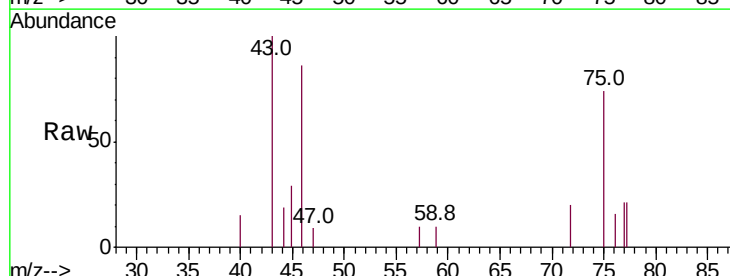
Manual Integrations
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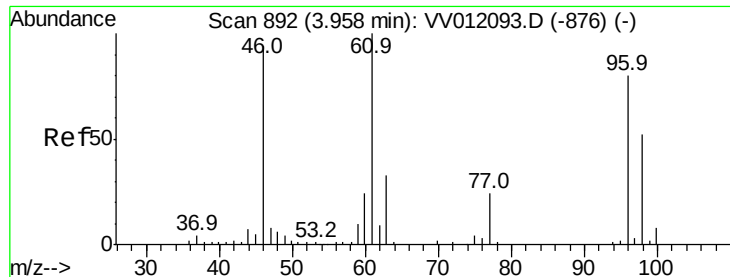
MMDadoda
 8/6/2019 9:56:01 AM



#21
 2-Butanone
 Concen: 2.029 ug/L m
 RT: 4.06 min Scan# 924
 Delta R.T. 0.03 min
 Lab File: VV012095.D
 Acq: 02 Aug 2019 11:23

Tgt Ion:	43	Resp:	3851
Ion	Ratio	Lower	Upper
43	100		
72	17.5	13.4	40.2





#22

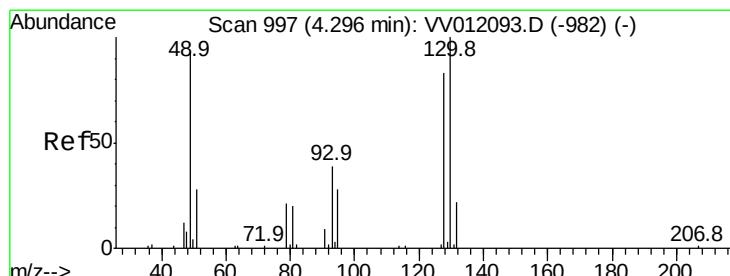
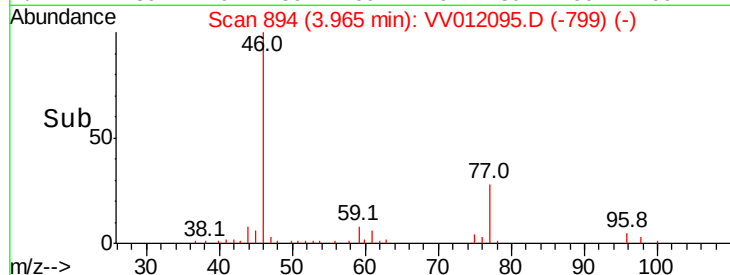
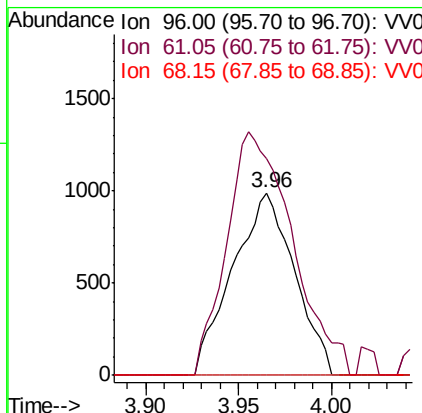
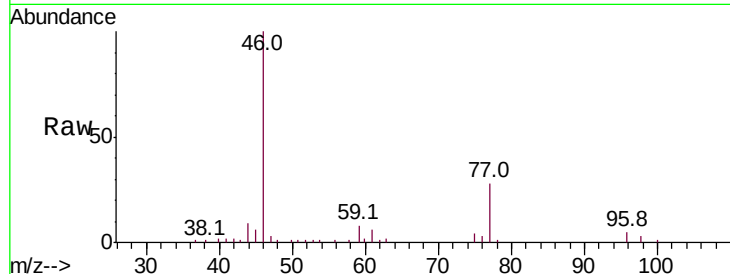
cis-1,2-Dichloroethene
Concen: 0.239 ug/L
RT: 3.96 min Scan# 894
Delta R.T. 0.01 min
Lab File: VV012095.D
Acq: 02 Aug 2019 11:23

Instrument :
MSVOA_V
ClientSampleId :
MDL06

Tot Ion	Ratio	Lower	Upper
96	100		
61	119.0	90.0	167.2
68	0.0	0.0	0.0

Manual Integrations
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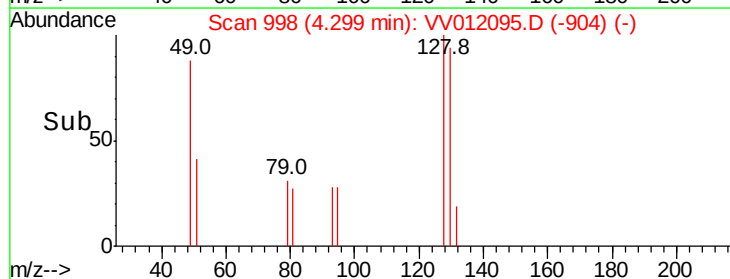
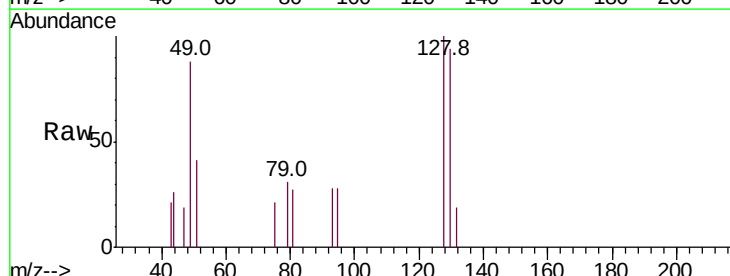
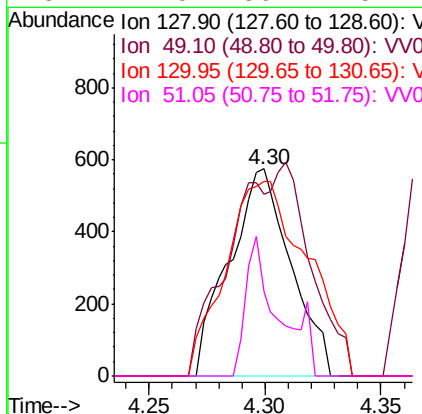
MMDadoda
8/6/2019 9:56:01 AM

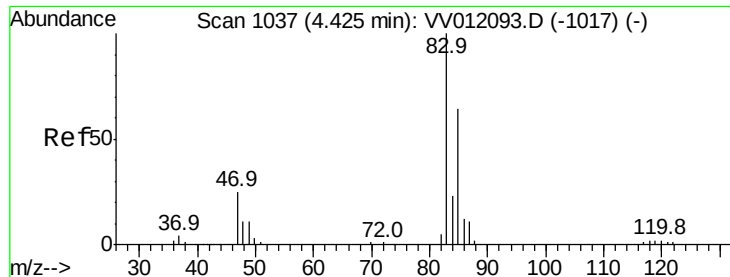


#23

Bromochloromethane
Concen: 0.254 ug/L
RT: 4.30 min Scan# 998
Delta R.T. 0.00 min
Lab File: VV012095.D
Acq: 02 Aug 2019 11:23

Tgt Ion	Ratio	Lower	Upper
128	100		
49	88.0	105.1	195.1#
130	94.1	88.9	165.1
51	41.0	36.2	54.2





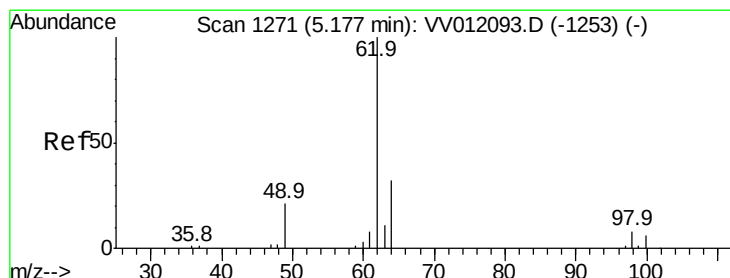
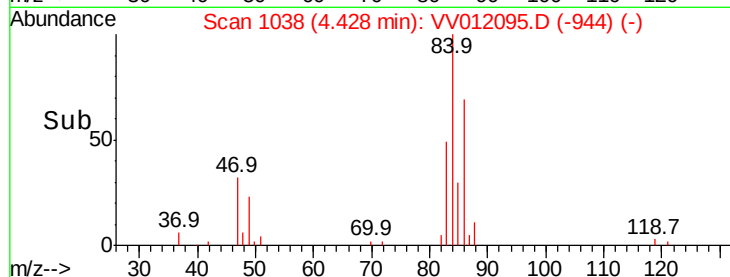
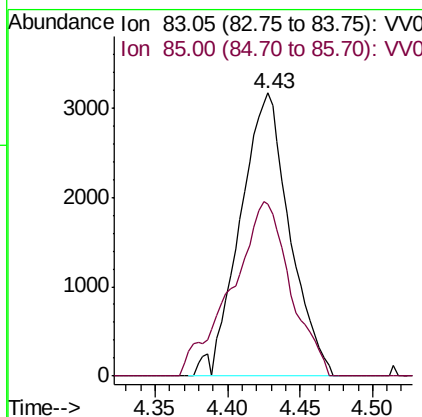
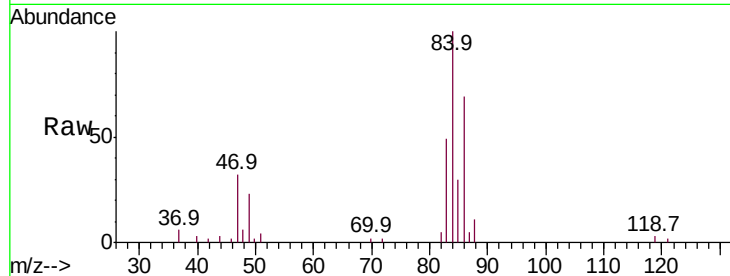
#25
Chloroform
Concen: 0.373 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. 0.00 min
Lab File: VV012095.D
Acq: 02 Aug 2019 11:23

Instrument :
MSVOA_V
ClientSampleId :
MDL06

Tot Ion: 83 Resp: 7523
Ion Ratio Lower Upper
83 100
85 60.8 45.2 84.0

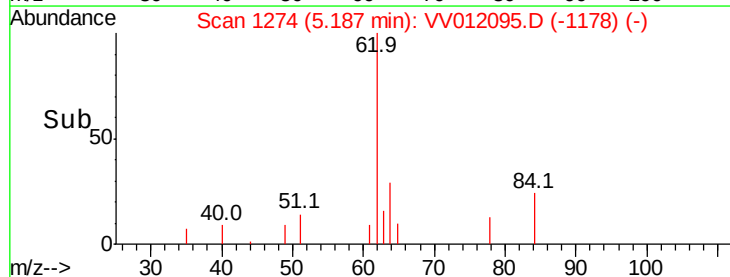
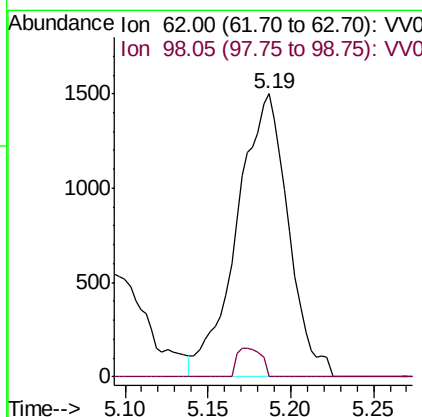
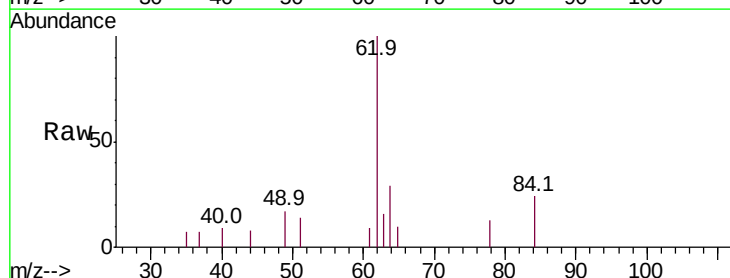
Manual Integrations
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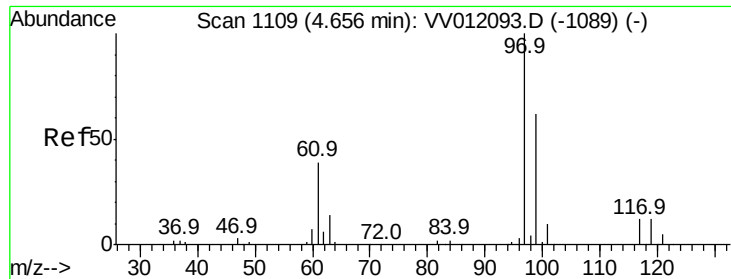
MMDadoda
8/6/2019 9:56:01 AM



#27
1,2-Dichloroethane
Concen: 0.290 ug/L
RT: 5.19 min Scan# 1274
Delta R.T. 0.01 min
Lab File: VV012095.D
Acq: 02 Aug 2019 11:23

Tgt Ion: 62 Resp: 3234
Ion Ratio Lower Upper
62 100
98 0.0 7.0 10.6#





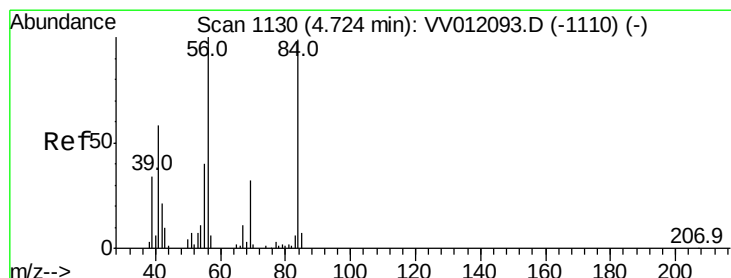
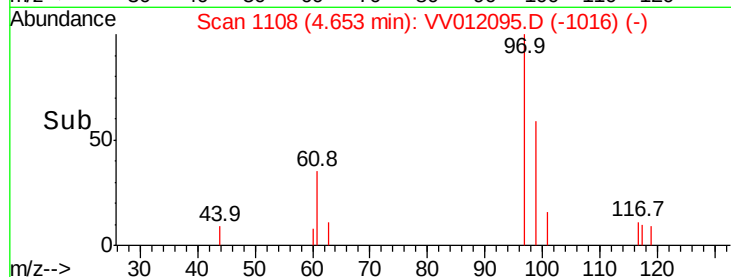
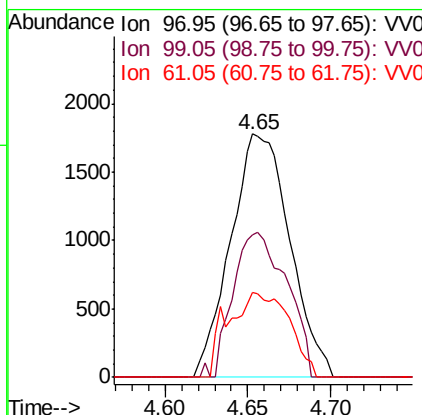
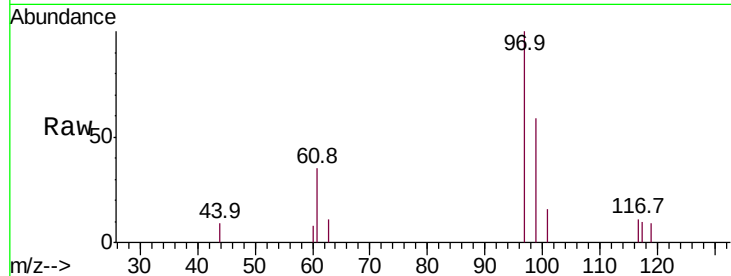
#29
 1,1,1-Trichloroethane
 Concen: 0.283 ug/L
 RT: 4.65 min Scan# 1108
 Delta R.T. -0.00 min
 Lab File: VV012095.D
 Acq: 02 Aug 2019 11:23

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL06

Tot Ion	Ratio	Lower	Upper
97	100		
99	54.2	51.8	77.8
61	28.6	34.5	51.7#

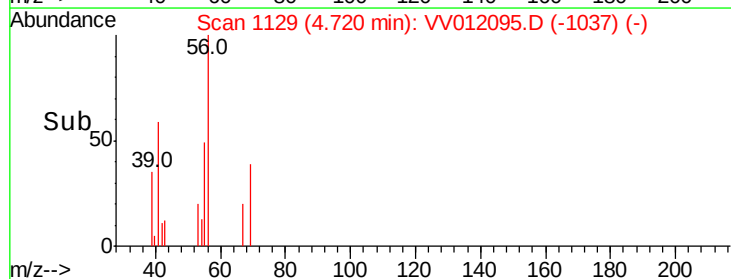
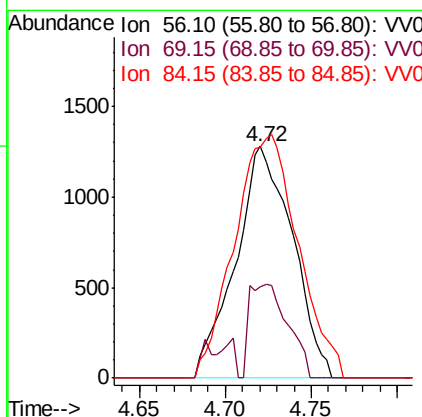
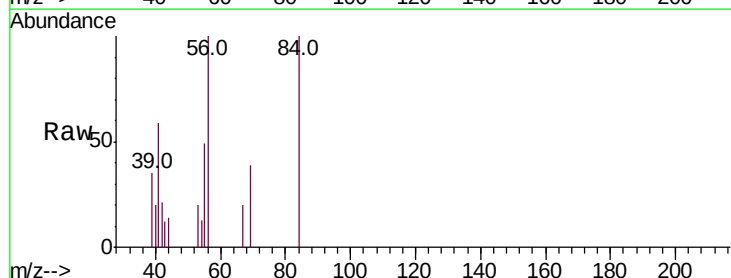
Manual Integrations
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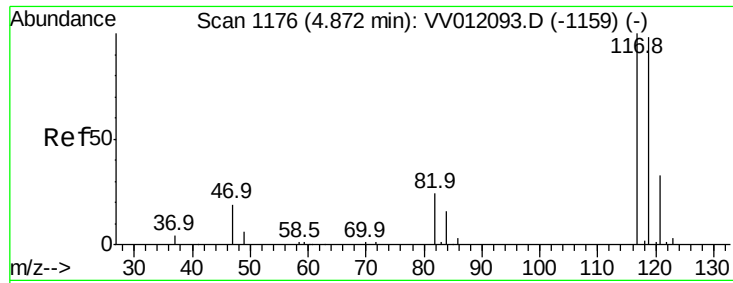
MMDadoda
 8/6/2019 9:56:01 AM



#30
 Cyclohexane
 Concen: 0.221 ug/L
 RT: 4.72 min Scan# 1129
 Delta R.T. -0.00 min
 Lab File: VV012095.D
 Acq: 02 Aug 2019 11:23

Tgt Ion	Ratio	Lower	Upper
56	100		
69	27.3	24.8	37.2
84	117.5	75.4	113.2#





#31

Carbon tetrachloride

Concen: 0.301 ug/L

RT: 4.87 min Scan# 1175

Delta R.T. -0.00 min

Lab File: VV012095.D

Acq: 02 Aug 2019 11:23

Instrument :

MSVOA_V

ClientSampleId :

MDL06

Tot Ion:117 Resp: 4226

Ion Ratio Lower Upper

117 100

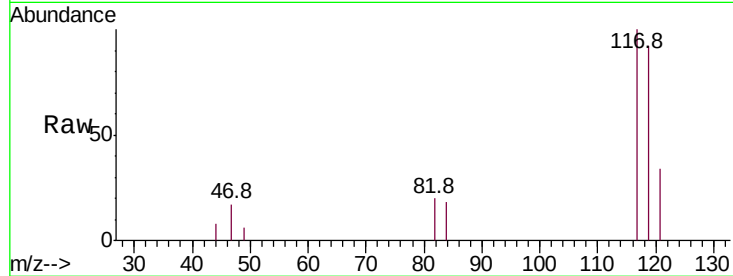
119 93.2 77.7 116.5

Manual Integrations

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Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V

2000

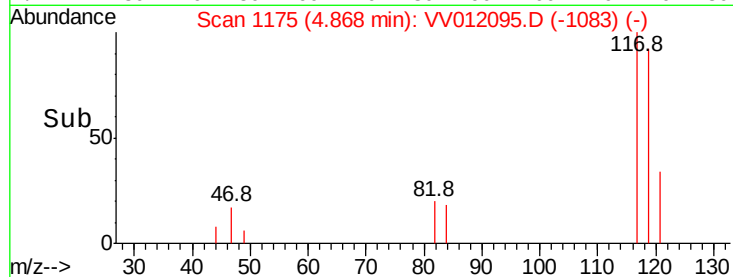
1500

1000

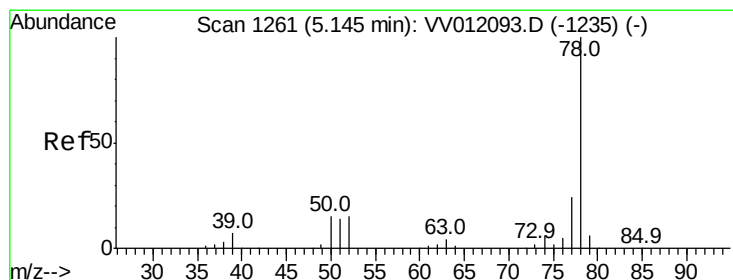
500

0

Time-->



Time-->



#33

Benzene

Concen: 0.244 ug/L

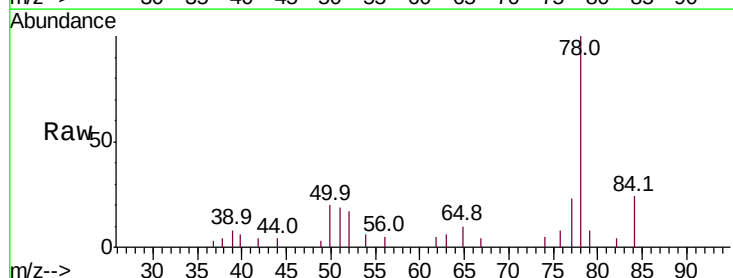
RT: 5.15 min Scan# 1262

Delta R.T. 0.00 min

Lab File: VV012095.D

Acq: 02 Aug 2019 11:23

Tgt Ion: 78 Resp: 8357



Abundance Ion 78.10 (77.80 to 78.80): VV0

4000

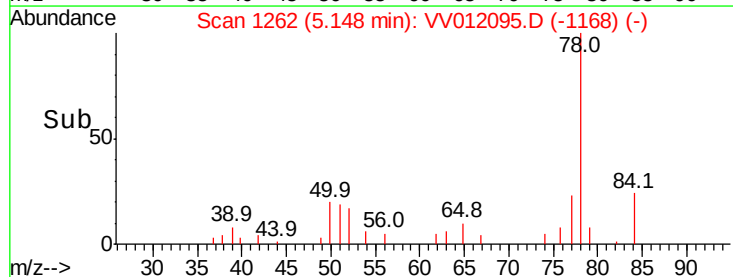
3000

2000

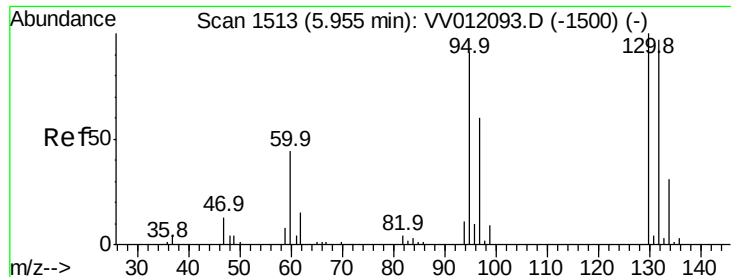
1000

0

Time-->



Time-->



#34

Trichloroethene

Concen: 0.279 ug/L m

RT: 5.96 min Scan# 1516

Delta R.T. 0.01 min

Lab File: VV012095.D

Acq: 02 Aug 2019 11:23

Instrument :

MSVOA_V

ClientSampled :

MDL06

Tot Ion: 95 Resp: 2723

Ion Ratio Lower Upper

95 100

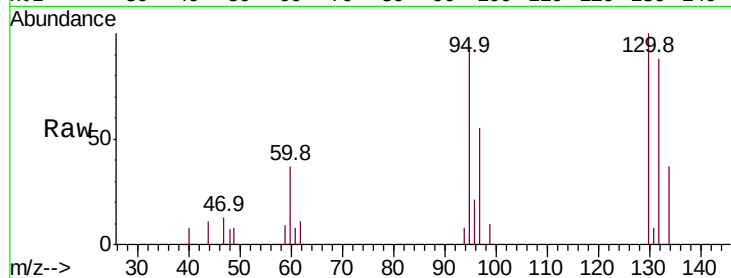
97 59.0 42.8 79.6

132 94.4 70.8 131.6

130 107.7 72.3 134.3

Manual Integrations
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MMDadoda
8/6/2019 9:56:01 AM

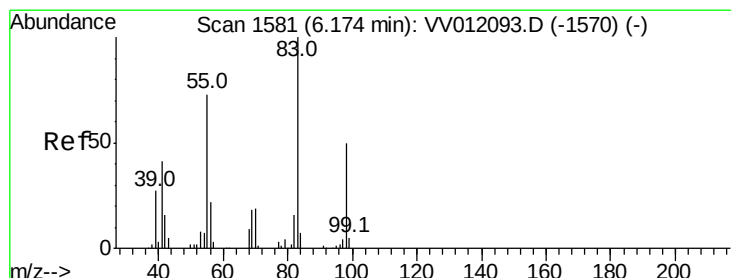
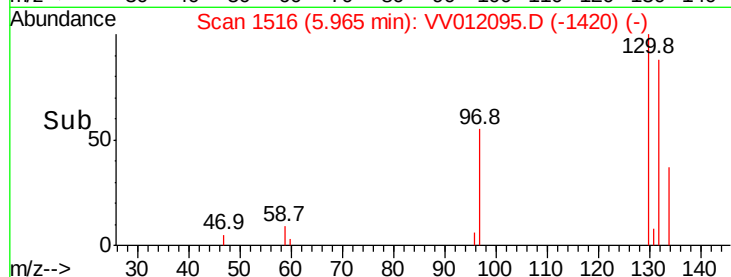
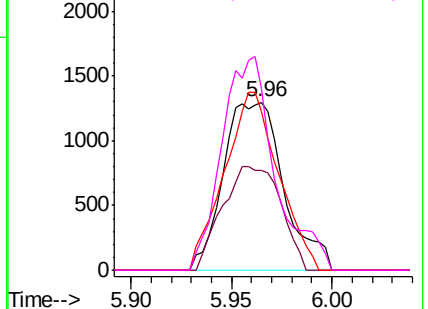


Abundance Ion 95.00 (94.70 to 95.70): VV012093.D (-1500) (-)

Ion 96.95 (96.65 to 97.65): VV012093.D (-1500) (-)

Ion 131.95 (131.65 to 132.65): VV012093.D (-1500) (-)

Ion 129.95 (129.65 to 130.65): VV012093.D (-1500) (-)



#35

Methylcyclohexane

Concen: 0.252 ug/L

RT: 6.17 min Scan# 1580

Delta R.T. -0.00 min

Lab File: VV012095.D

Acq: 02 Aug 2019 11:23

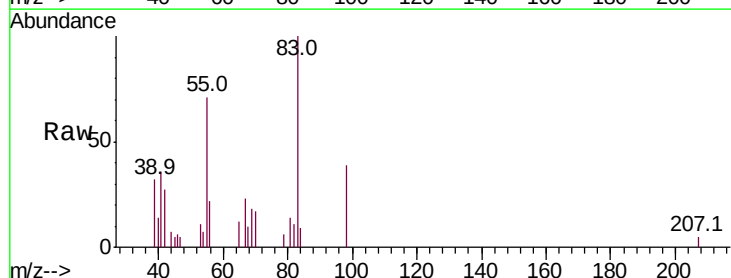
Tgt Ion: 83 Resp: 3848

Ion Ratio Lower Upper

83 100

55 70.2 60.1 90.1

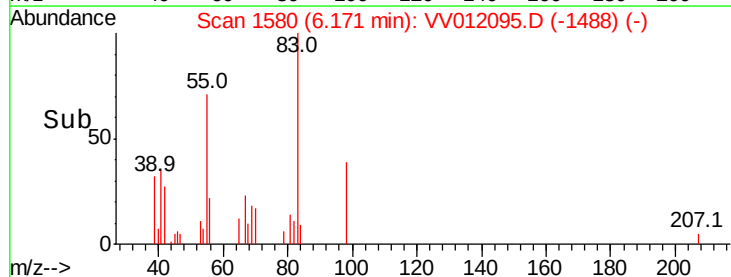
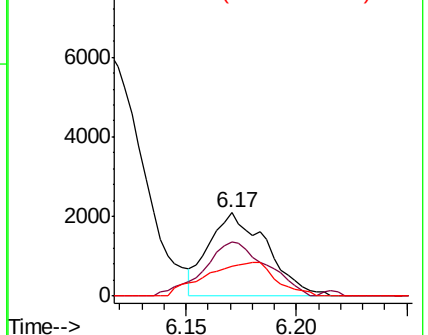
98 48.4 40.2 60.4

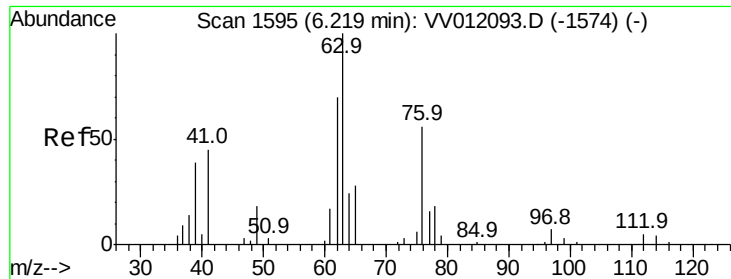


Abundance Ion 83.15 (82.85 to 83.85): VV012093.D (-1570) (-)

Ion 55.10 (54.80 to 55.80): VV012093.D (-1570) (-)

Ion 98.15 (97.85 to 98.85): VV012093.D (-1570) (-)





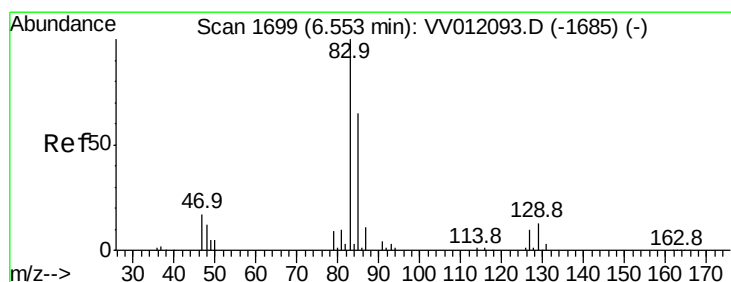
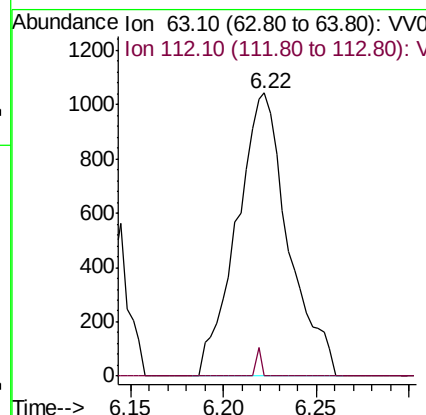
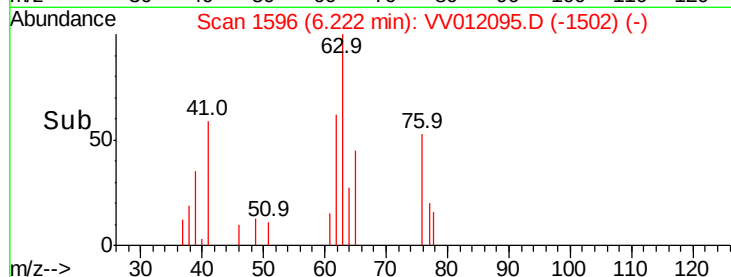
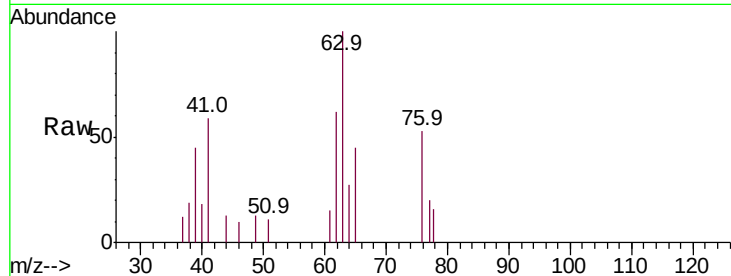
#37
 1,2-Dichloropropane
 Concen: 0.254 ug/L
 RT: 6.22 min Scan# 1596
 Delta R.T. 0.00 min
 Lab File: VV012095.D
 Acq: 02 Aug 2019 11:23

Instrument :
 MSVOA_V
 ClientSampled :
 MDL06

Tot Ion: 63 Resp: 2014
 Ion Ratio Lower Upper
 63 100
 112 1.0 3.8 5.6#

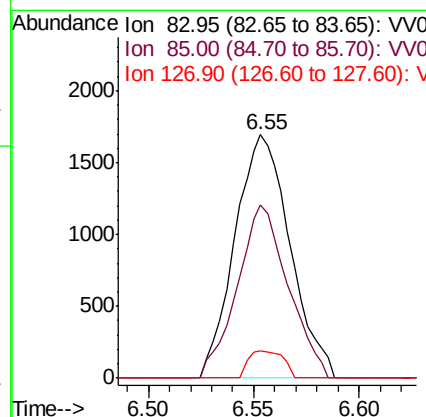
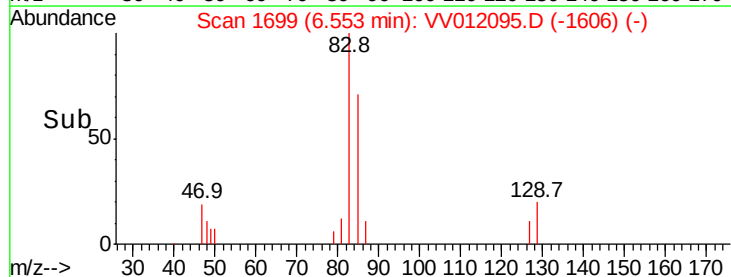
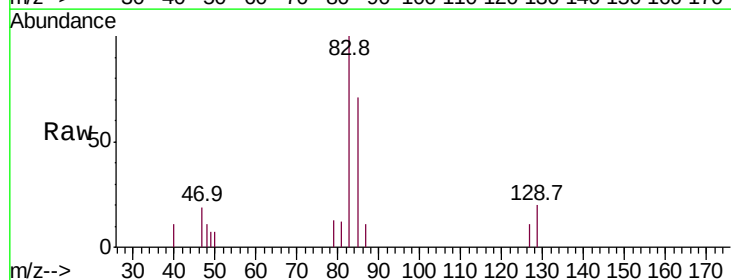
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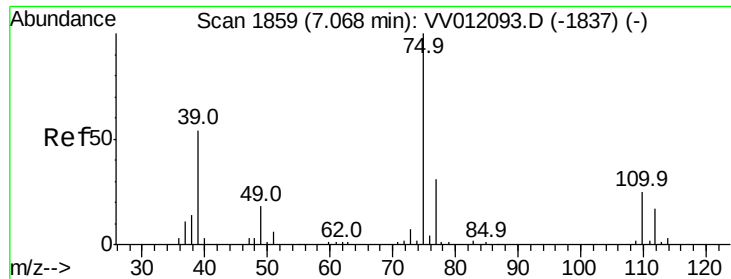
MMDadoda
 8/6/2019 9:56:01 AM



#38
 Bromodichloromethane
 Concen: 0.275 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. -0.00 min
 Lab File: VV012095.D
 Acq: 02 Aug 2019 11:23

Tgt Ion: 83 Resp: 3075
 Ion Ratio Lower Upper
 83 100
 85 71.2 43.9 81.5
 127 11.4 6.9 10.3#





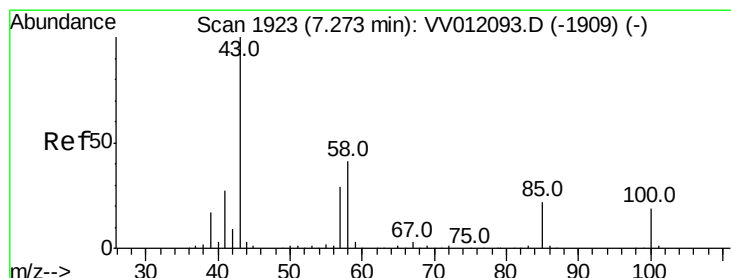
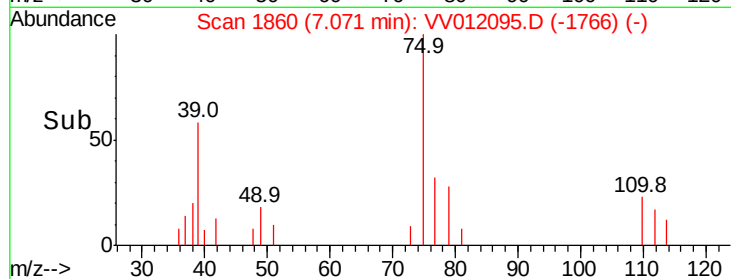
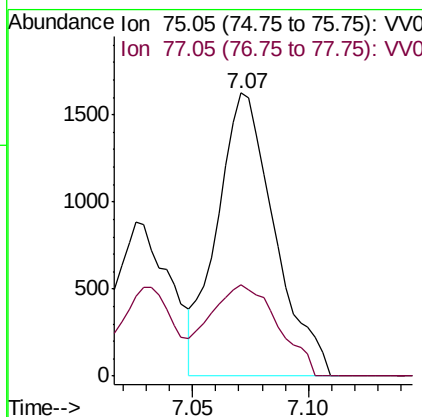
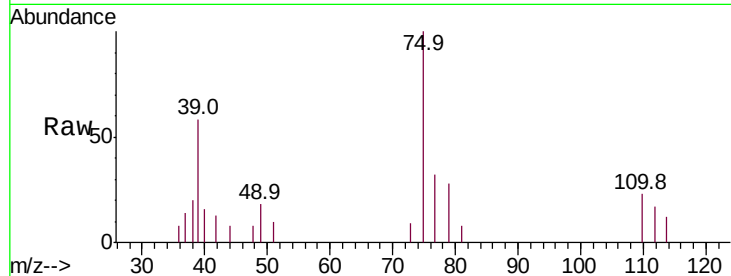
#39
 cis-1,3-Dichloropropene
 Concen: 0.226 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV012095.D
 Acq: 02 Aug 2019 11:23

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL06

Tot Ion: 75 Resp: 2802
 Ion Ratio Lower Upper
 75 100
 77 32.1 22.4 41.6

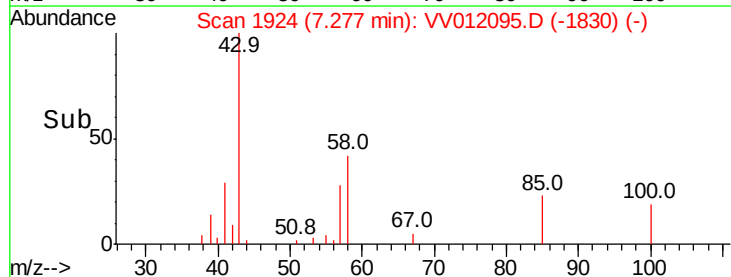
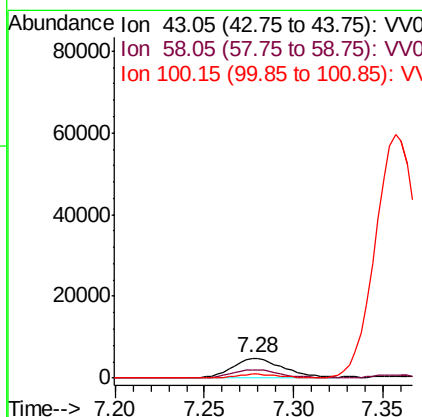
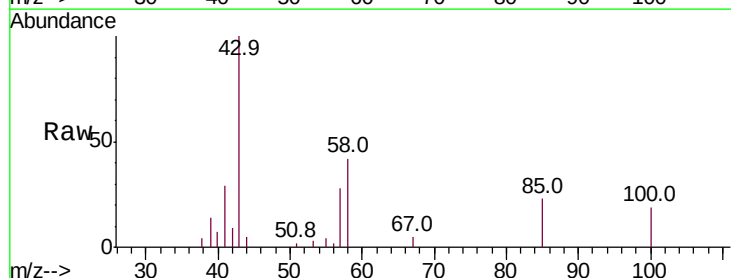
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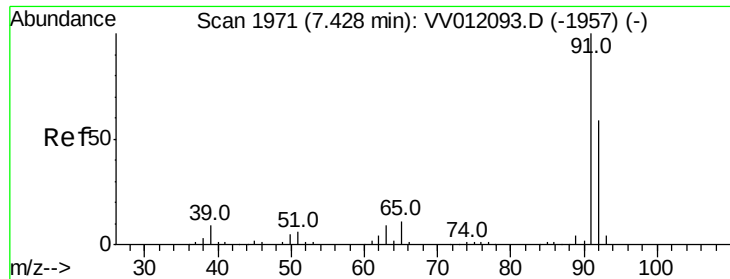
MMDadoda
 8/6/2019 9:56:01 AM



#40
 4-Methyl-2-pentanone
 Concen: 2.201 ug/L
 RT: 7.28 min Scan# 1924
 Delta R.T. 0.00 min
 Lab File: VV012095.D
 Acq: 02 Aug 2019 11:23

Tgt Ion: 43 Resp: 9832
 Ion Ratio Lower Upper
 43 100
 58 41.4 31.9 47.9
 100 0.0 14.0 21.0#





#42

Toluene

Concen: 0.273 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.01 min

Lab File: VV012095.D

Acq: 02 Aug 2019 11:23

Instrument :

MSVOA_V

ClientSampleId :

MDL06

Tot Ion: 91 Resp: 10375

Ion Ratio Lower Upper

91 100

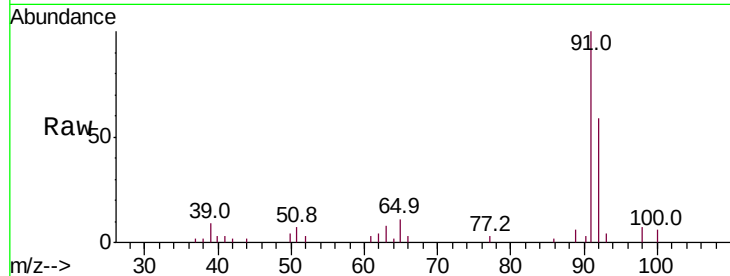
92 58.7 41.3 76.7

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Abundance Ion 91.15 (90.85 to 91.85): VV012093.D (-1957) (-)

Ion 92.15 (91.85 to 92.85): VV012093.D (-1957) (-)

7.43

6000

5000

4000

3000

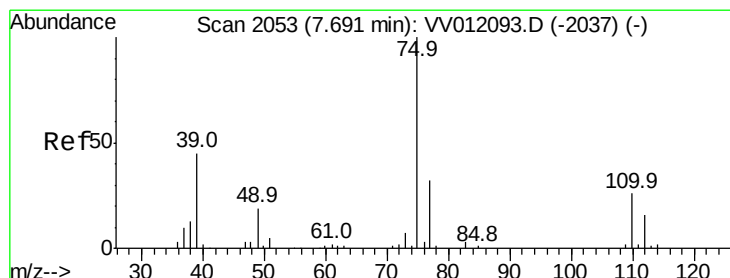
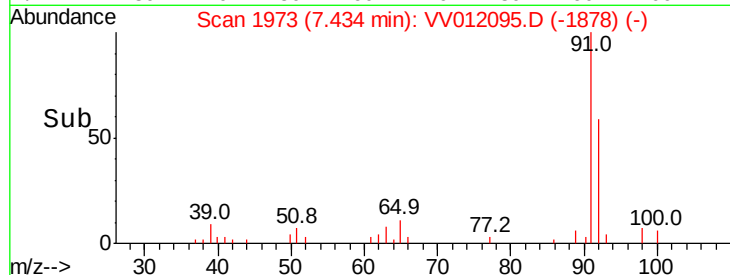
2000

1000

0

7.35 7.40 7.45 7.50

Time-->



#44

trans-1,3-Dichloropropene

Concen: 0.245 ug/L m

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV012095.D

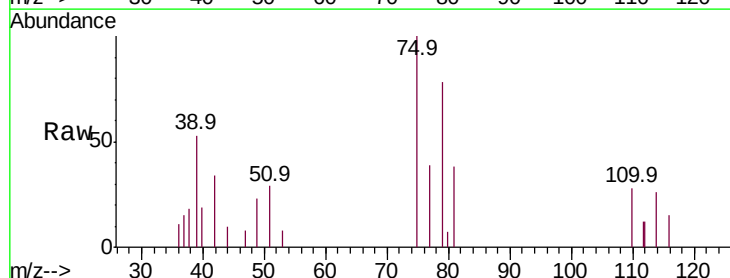
Acq: 02 Aug 2019 11:23

Tgt Ion: 75 Resp: 2458

Ion Ratio Lower Upper

75 100

77 38.9 21.6 40.0



Abundance Ion 75.05 (74.75 to 75.75): VV012093.D (-2037) (-)

Ion 77.05 (76.75 to 77.75): VV012093.D (-2037) (-)

7.69

1500

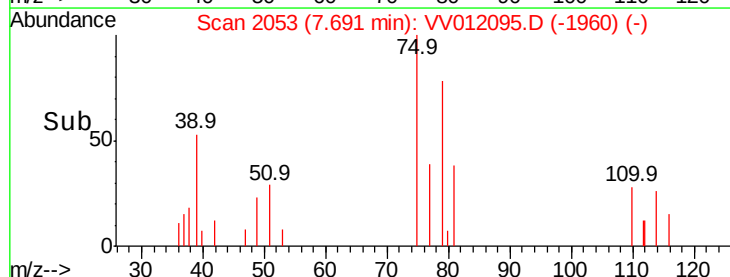
1000

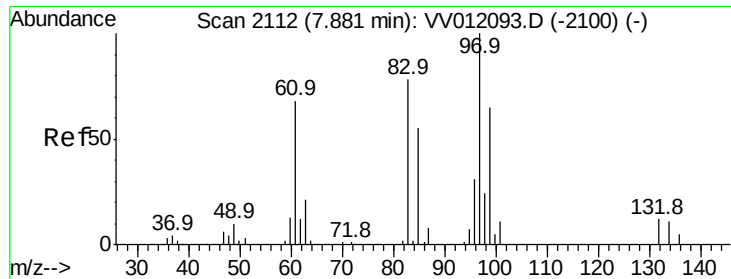
500

0

7.65 7.70 7.75

Time-->





#45

1,1,2-Trichloroethane

Concen: 0.247 ug/L

RT: 7.88 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VV012095.D

Acq: 02 Aug 2019 11:23

Instrument :

MSVOA_V

ClientSampleId :

MDL06

Tot Ion: 97 Resp: 1493

Ion Ratio Lower Upper

97 100

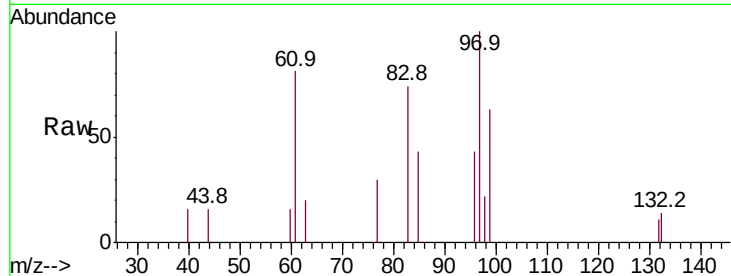
99 62.9 42.0 78.0

83 73.8 57.6 107.0

85 43.0 34.6 64.2

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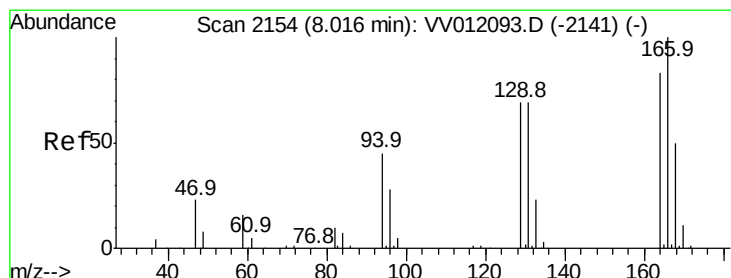
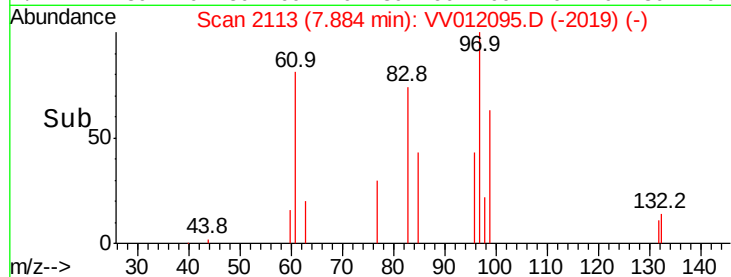
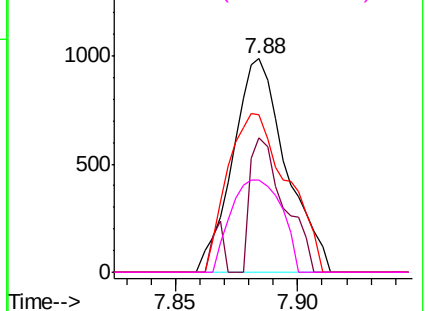
Abundance

Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0



#47

Tetrachloroethene

Concen: 0.257 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.00 min

Lab File: VV012095.D

Acq: 02 Aug 2019 11:23

Tgt Ion: 164 Resp: 2193

Ion Ratio Lower Upper

164 100

129 89.4 61.9 114.9

131 82.1 59.4 110.4

166 115.8 89.6 166.4

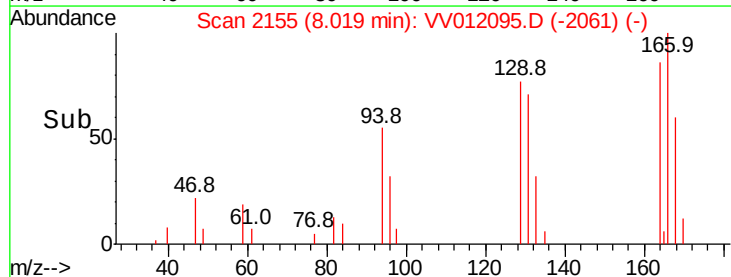
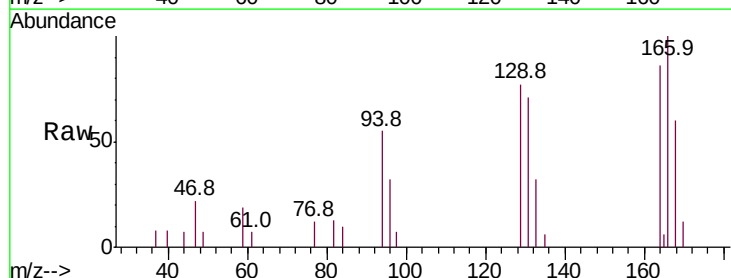
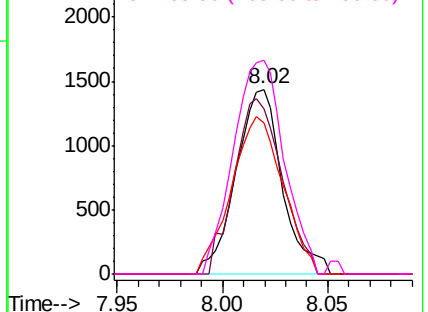
Abundance

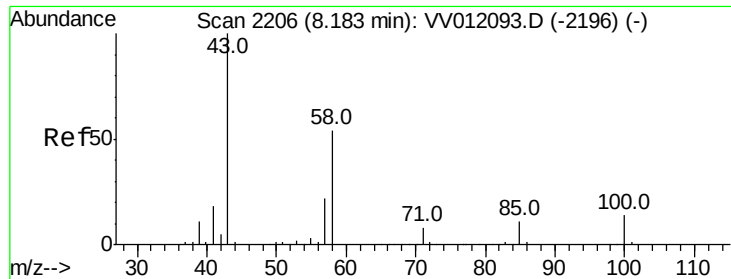
Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V





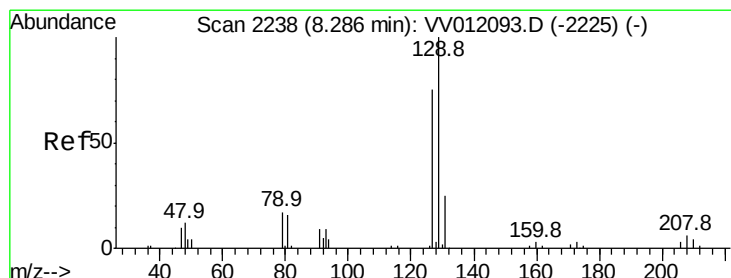
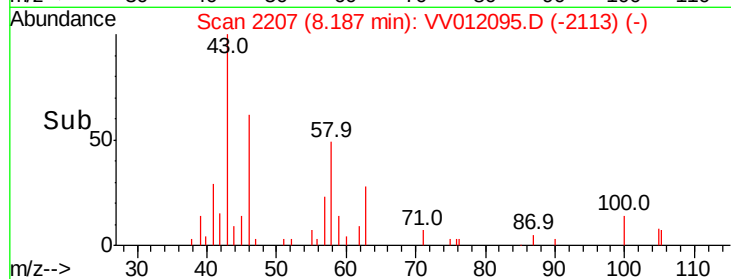
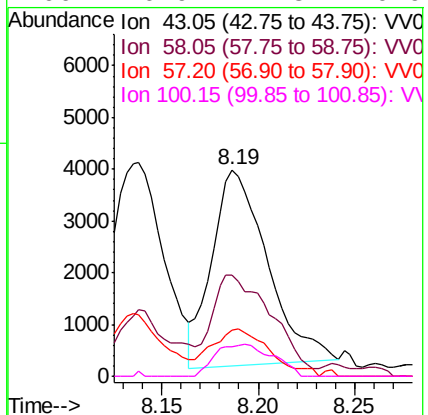
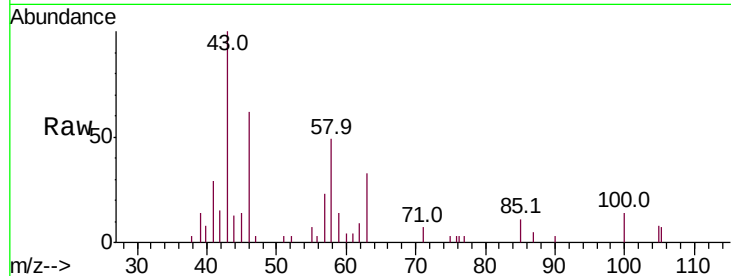
#48
2-Hexanone
Concen: 2.410 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.00 min
Lab File: VV012095.D
Acq: 02 Aug 2019 11:23

Instrument :
MSVOA_V
ClientSampleId :
MDL06

Tot Ion	Ratio	Lower	Upper
43	100		
58	50.4	44.1	66.1
57	25.8	16.1	24.1#
100	16.9	11.3	16.9

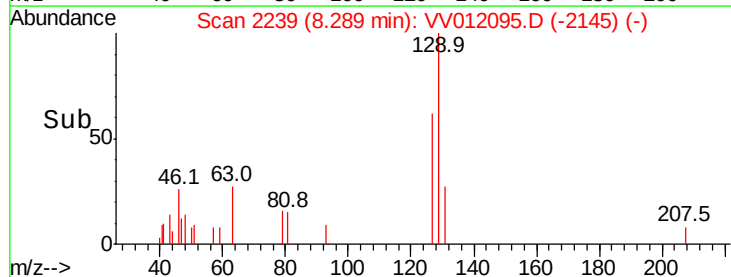
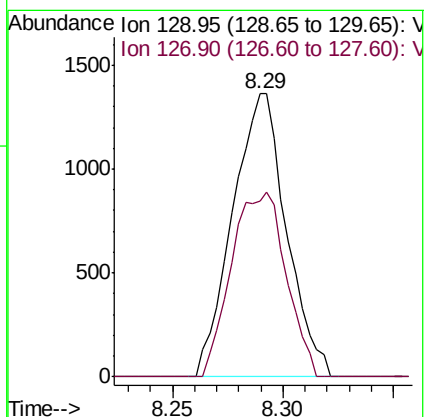
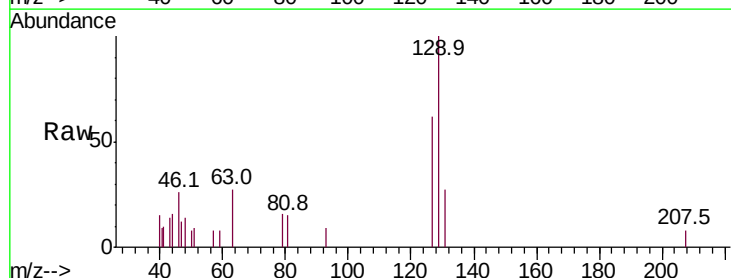
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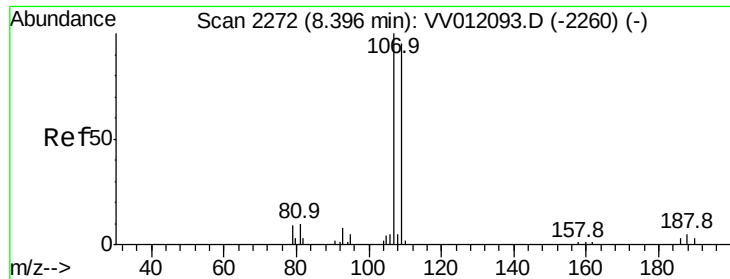
MMDadoda
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#49
Dibromochloromethane
Concen: 0.311 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV012095.D
Acq: 02 Aug 2019 11:23

Tgt Ion	Ratio	Lower	Upper
129	100		
127	62.1	55.4	102.8





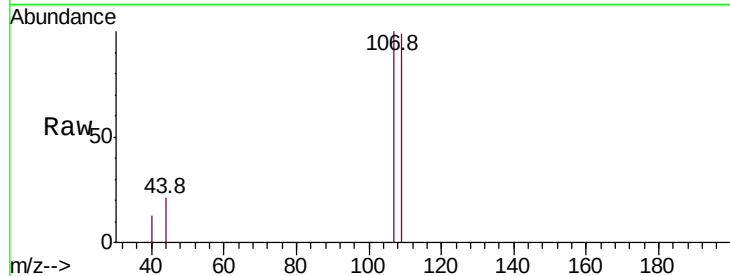
#50
1,2-Dibromoethane
Concen: 0.246 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VV012095.D
Acq: 02 Aug 2019 11:23

Instrument :
MSVOA_V
ClientSampleId :
MDL06

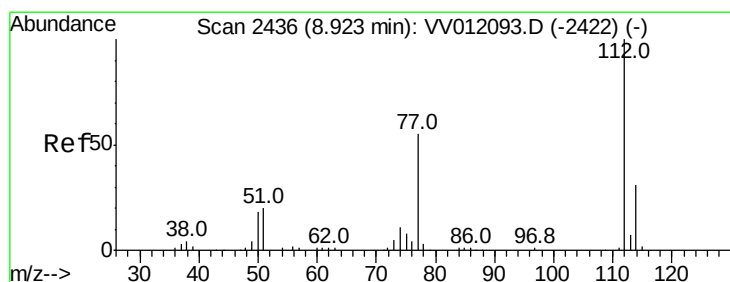
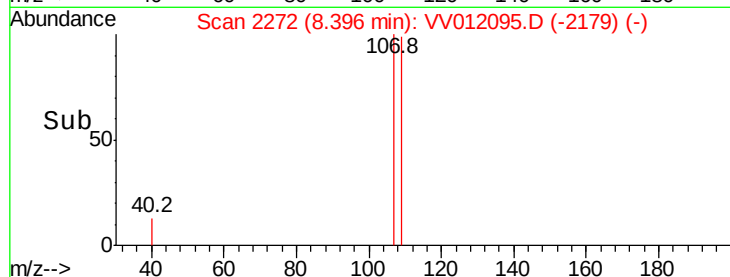
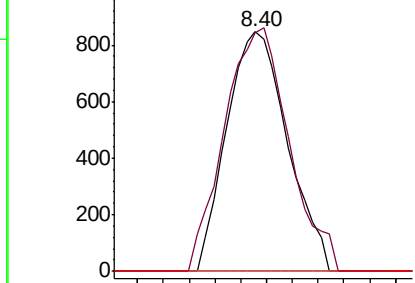
Tot Ion	Ratio	Resp	Lower	Upper
107	100	1387		
109	99.4	66.3	123.1	
188	0.0	3.4	5.0#	

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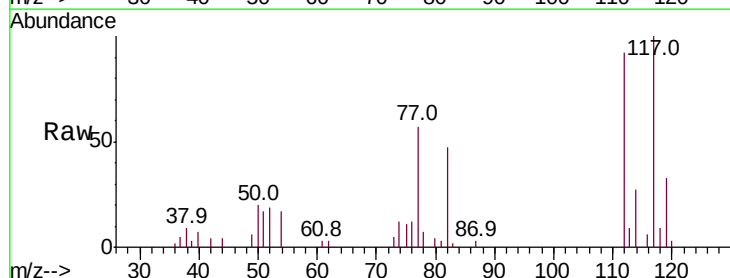


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

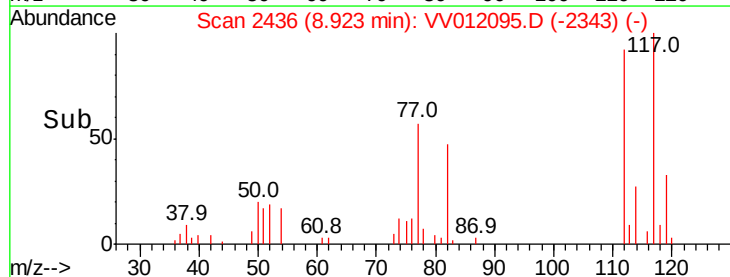
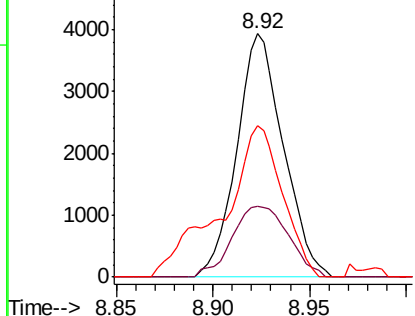


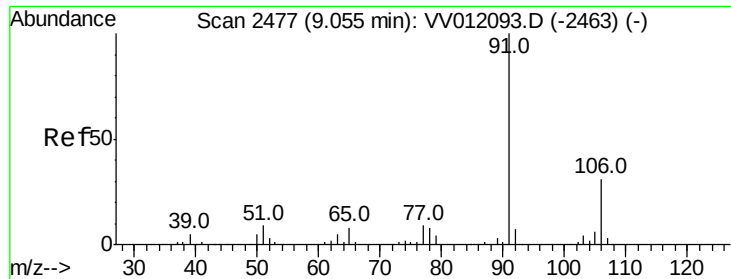
#51
Chlorobenzene
Concen: 0.259 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. -0.00 min
Lab File: VV012095.D
Acq: 02 Aug 2019 11:23

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	6582		
114	26.3	22.1	41.1	
77	56.8	45.9	68.9	



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): VV0





#52

Ethylbenzene

Concen: 0.250 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV012095.D

Acq: 02 Aug 2019 11:23

Tot Ion: 91 Resp: 10860

Ion Ratio Lower Upper

91 100

106 35.1 21.6 40.2

Instrument :

MSVOA_V

ClientSampleId :

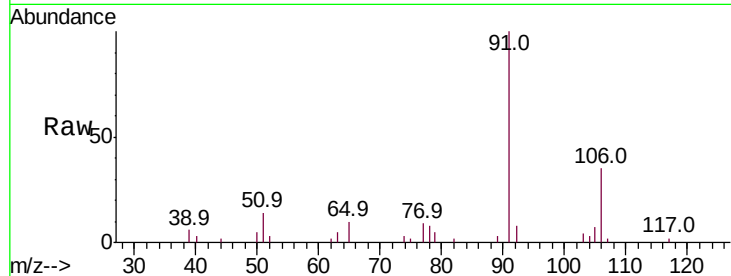
MDL06

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Abundance Ion 91.15 (90.85 to 91.85): VV012095.D (-2463) (-)

Ion 106.15 (105.85 to 106.85): VV012095.D (-2463) (-)

9.05

6000

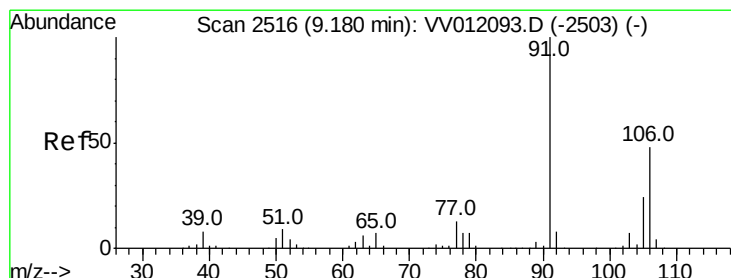
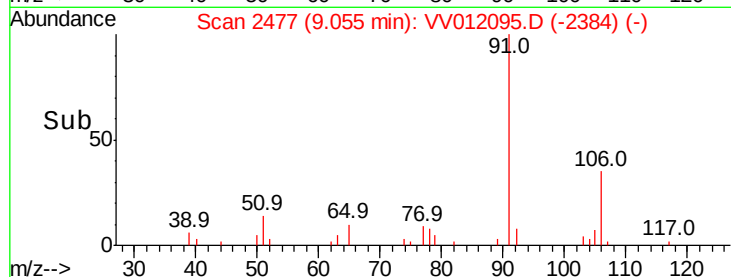
4000

2000

0

9.00 9.05 9.10

Time-->



#53

m,p-xylene

Concen: 0.234 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. -0.00 min

Lab File: VV012095.D

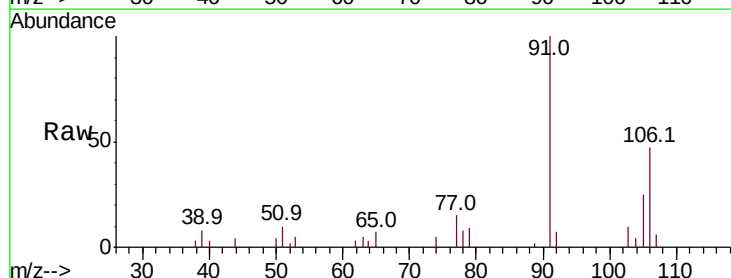
Acq: 02 Aug 2019 11:23

Tgt Ion: 106 Resp: 3868

Ion Ratio Lower Upper

106 100

91 210.9 141.6 263.0



Abundance Ion 106.15 (105.85 to 106.85): VV012095.D (-2503) (-)

Ion 91.15 (90.85 to 91.85): VV012095.D (-2503) (-)

9.18

5000

4000

3000

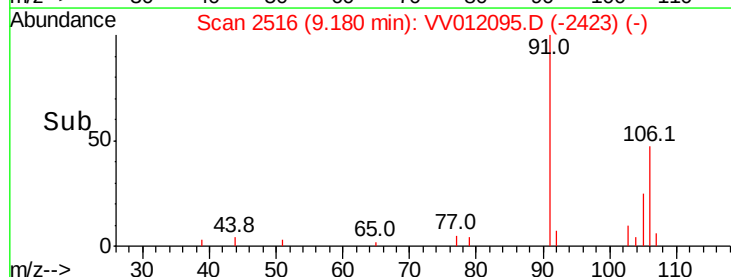
2000

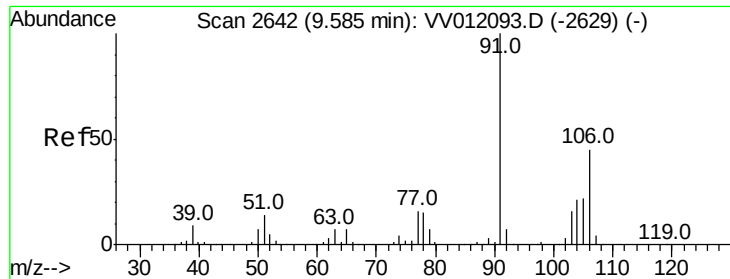
1000

0

9.15 9.20

Time-->





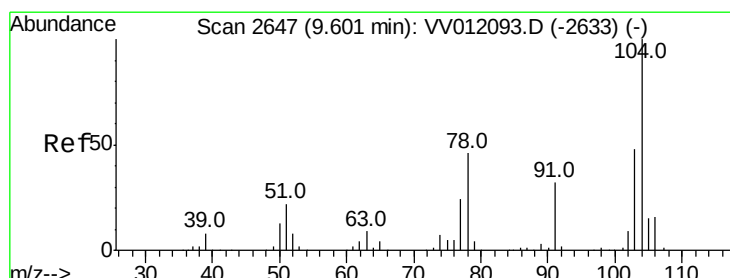
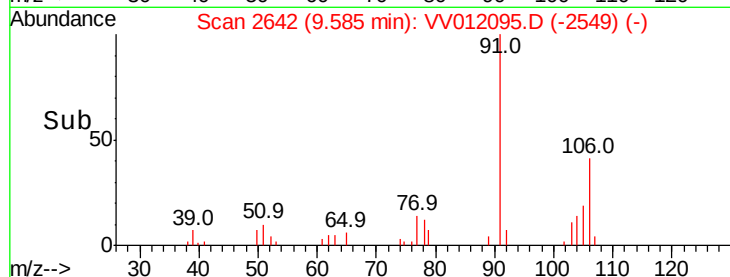
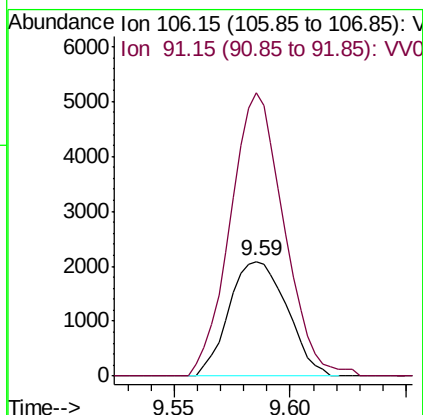
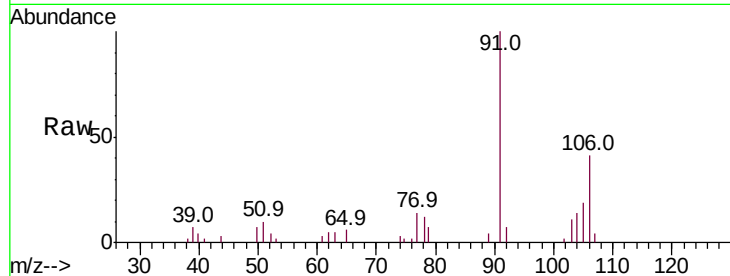
#54
o-xylene
Concen: 0.232 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. -0.00 min
Lab File: VV012095.D
Acq: 02 Aug 2019 11:23

Instrument :
MSVOA_V
ClientSampleId :
MDL06

Tot Ion:106 Resp: 3628
Ion Ratio Lower Upper
106 100
91 246.4 146.8 272.6

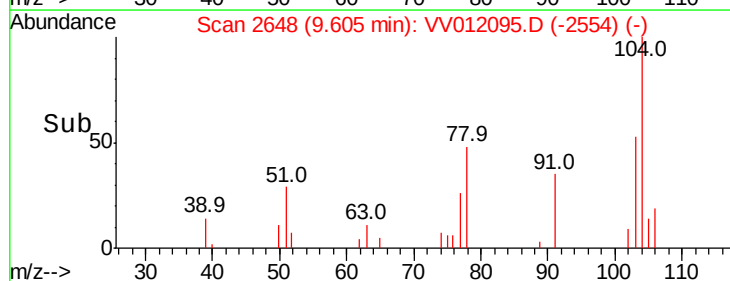
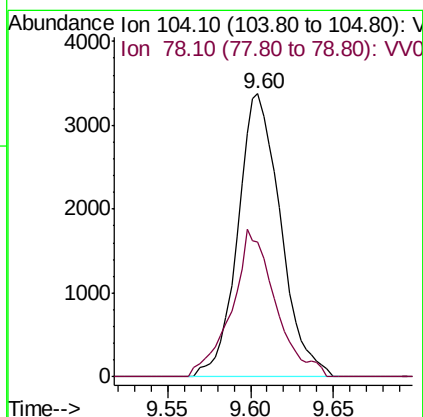
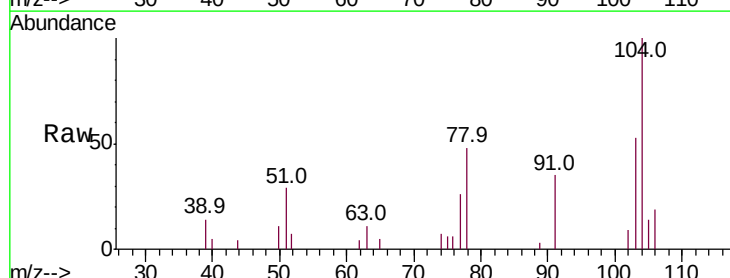
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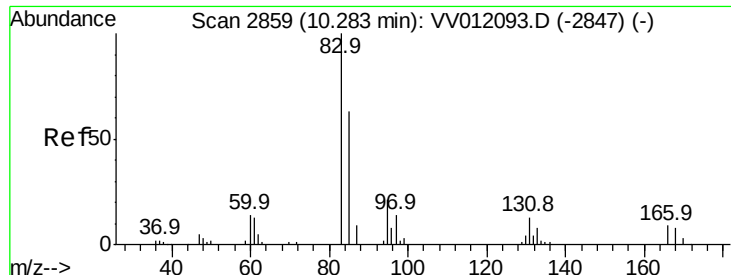
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#55
Styrene
Concen: 0.230 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. 0.00 min
Lab File: VV012095.D
Acq: 02 Aug 2019 11:23

Tgt Ion:104 Resp: 6053
Ion Ratio Lower Upper
104 100
78 47.6 33.3 61.9





#57

1,1,2,2-Tetrachloroethane

Concen: 0.265 ug/L

RT: 10.28 min Scan# 2858

Delta R.T. -0.00 min

Lab File: VV012095.D

Acq: 02 Aug 2019 11:23

Instrument :

MSVOA_V

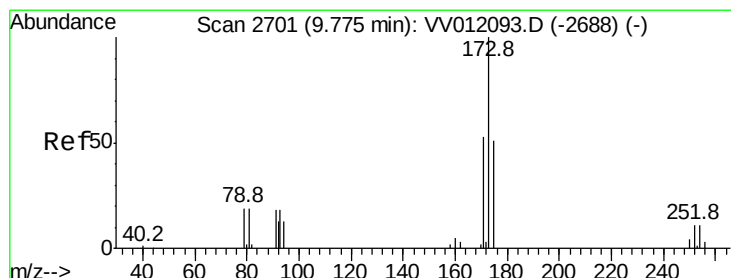
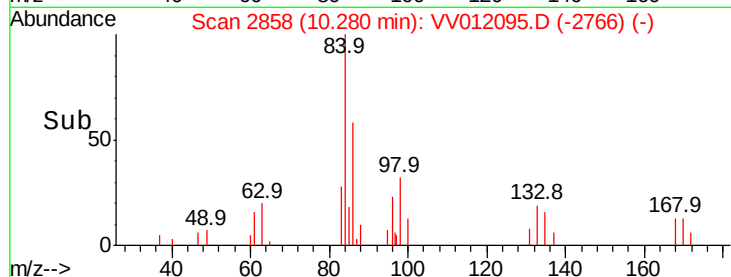
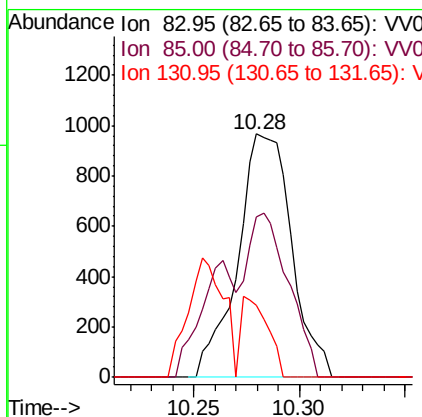
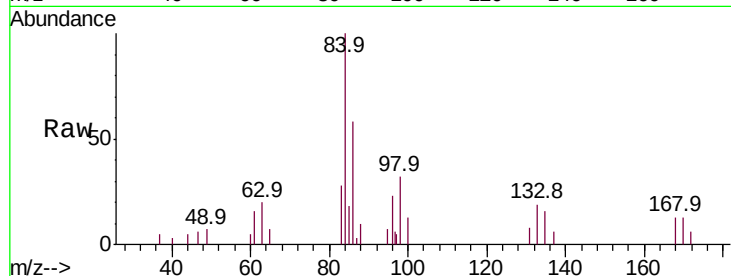
ClientSampled :

MDL06

Tot Ion:	83	Resp:	1721
Ion	Ratio	Lower	Upper
83	100		
85	65.8	44.0	81.6
131	29.5	8.3	12.5#

Manual Integrations
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#59

Bromoform

Concen: 0.262 ug/L

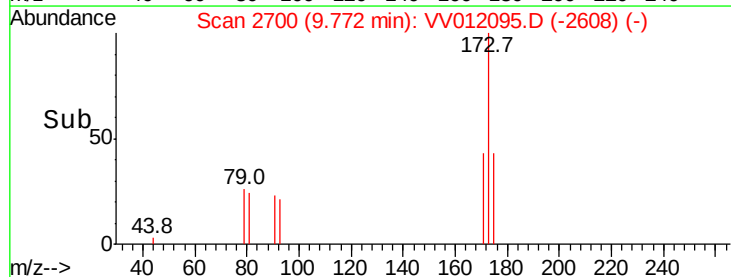
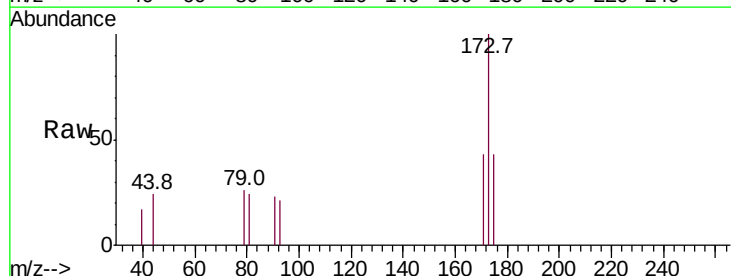
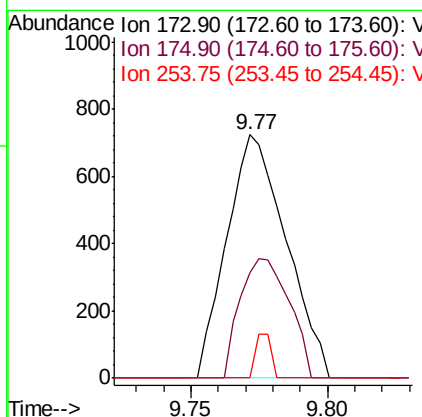
RT: 9.77 min Scan# 2700

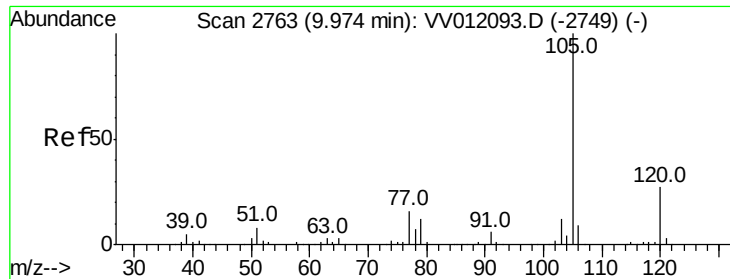
Delta R.T. -0.00 min

Lab File: VV012095.D

Acq: 02 Aug 2019 11:23

Tgt Ion:	173	Resp:	1095
Ion	Ratio	Lower	Upper
173	100		
175	40.7	38.3	57.5
254	4.7	8.6	13.0#





#60

Isopropylbenzene

Concen: 0.238 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV012095.D

Acq: 02 Aug 2019 11:23

Instrument :

MSVOA_V

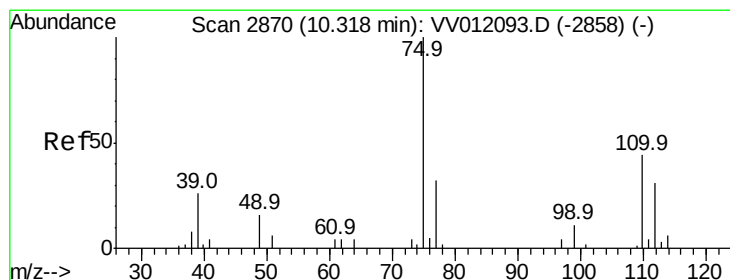
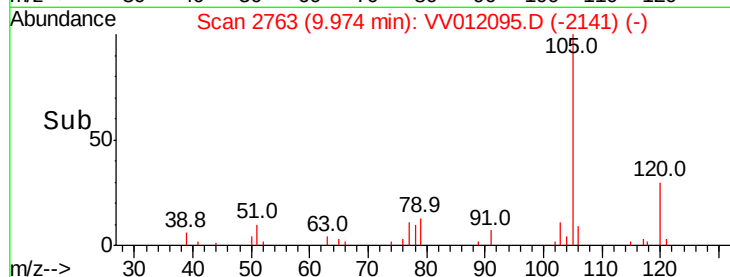
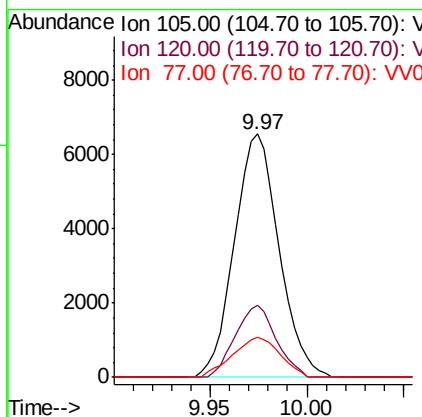
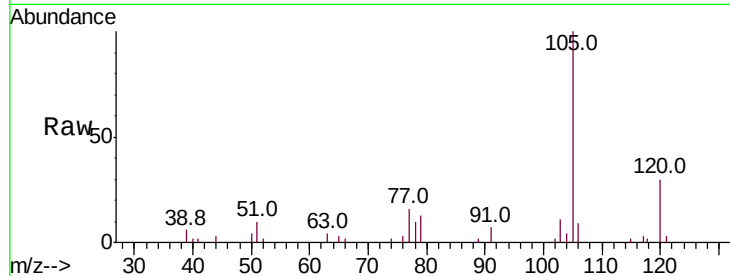
ClientSampleId :

MDL06

Tot Ion:	105	Resp:	10505
Ion Ratio	Lower	Upper	
105	100		
120	27.1	21.5	32.3
77	17.4	12.3	18.5

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#61

1,2,3-Trichloropropane

Concen: 0.232 ug/L

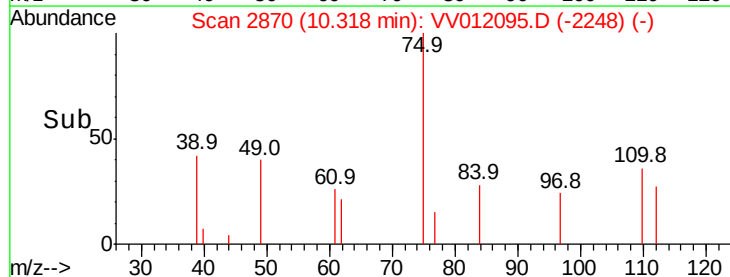
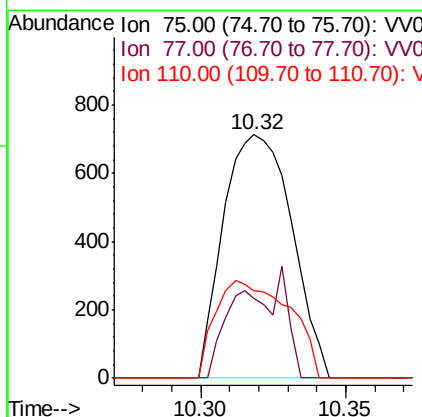
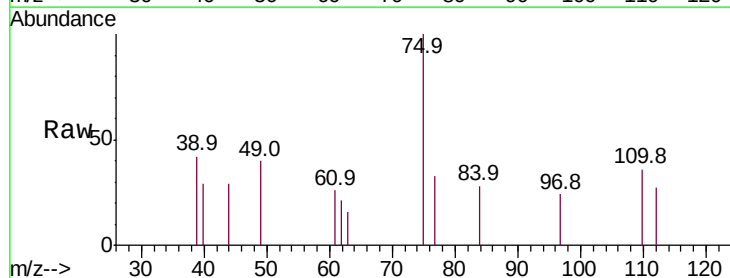
RT: 10.32 min Scan# 2870

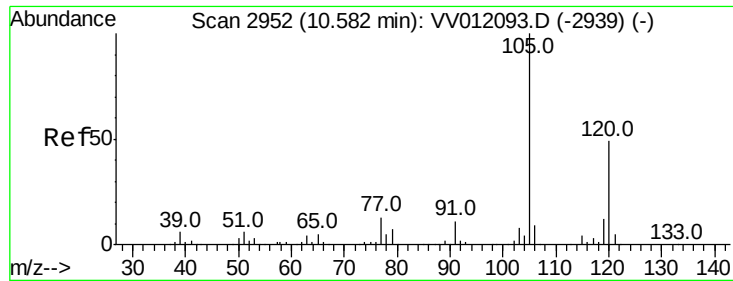
Delta R.T. -0.00 min

Lab File: VV012095.D

Acq: 02 Aug 2019 11:23

Tgt Ion:	75	Resp:	1170
Ion Ratio	Lower	Upper	
75	100		
77	23.5	26.8	40.2#
110	43.1	35.0	52.6





#62

1,3,5-Trimethylbenzene

Concen: 0.224 ug/L

RT: 10.58 min Scan# 2952

Delta R.T. -0.00 min

Lab File: VV012095.D

Acq: 02 Aug 2019 11:23

Instrument :

MSVOA_V

ClientSampleId :

MDL06

Tot Ion:105 Resp: 8166

Ion Ratio Lower Upper

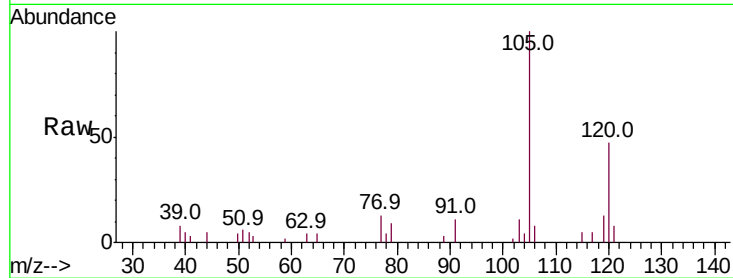
105 100

120 47.9 40.1 60.1

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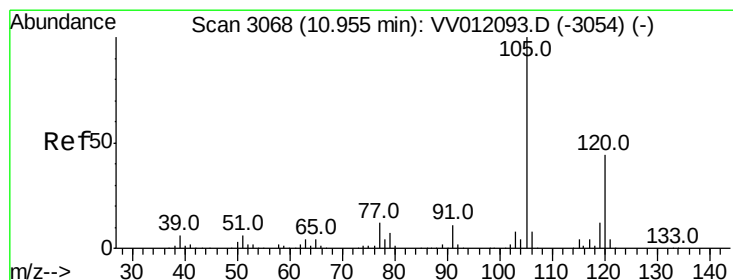
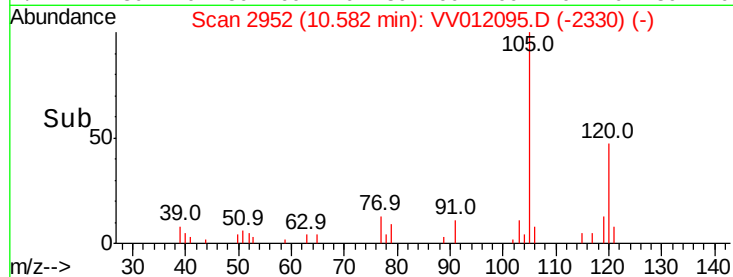
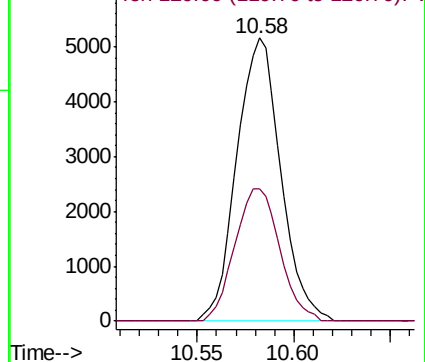
MMDadoda

8/6/2019 9:56:01 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 0.220 ug/L

RT: 10.95 min Scan# 3068

Delta R.T. -0.00 min

Lab File: VV012095.D

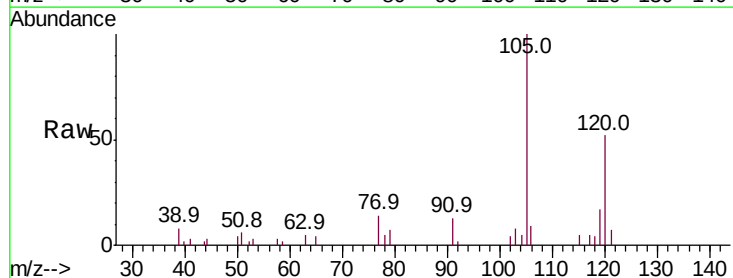
Acq: 02 Aug 2019 11:23

Tgt Ion:105 Resp: 7967

Ion Ratio Lower Upper

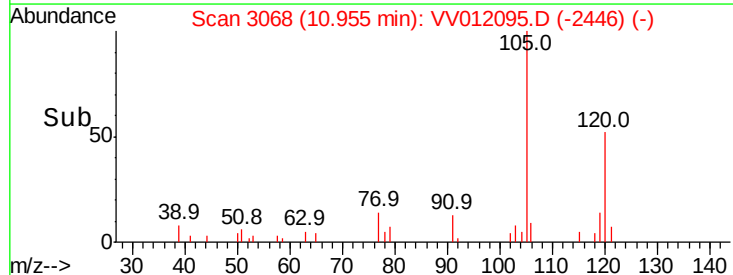
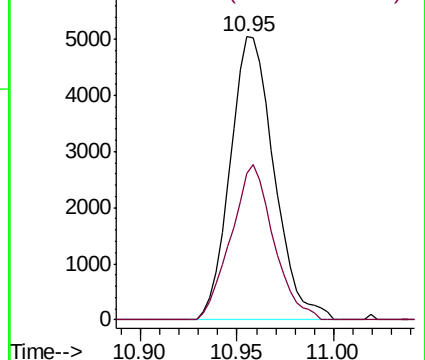
105 100

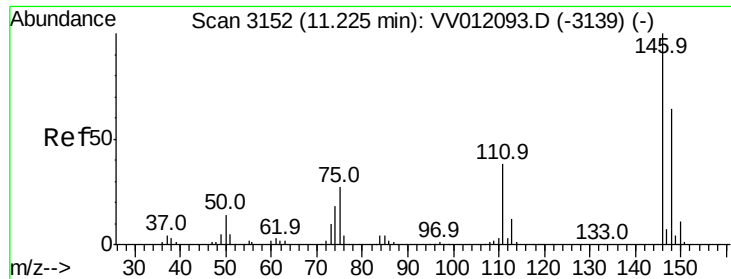
120 53.2 35.8 53.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





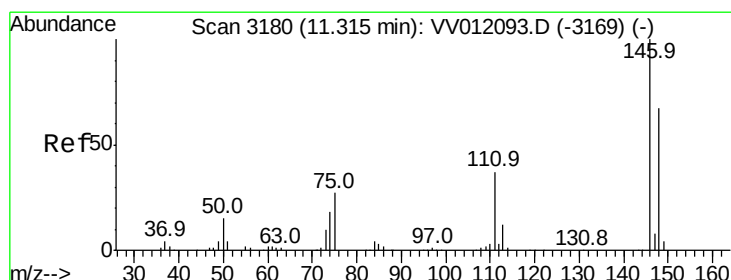
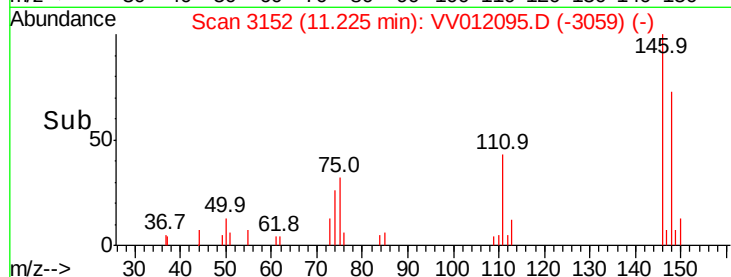
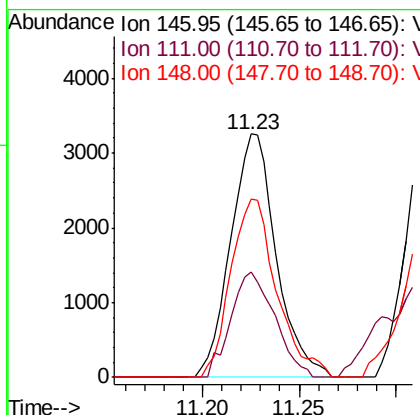
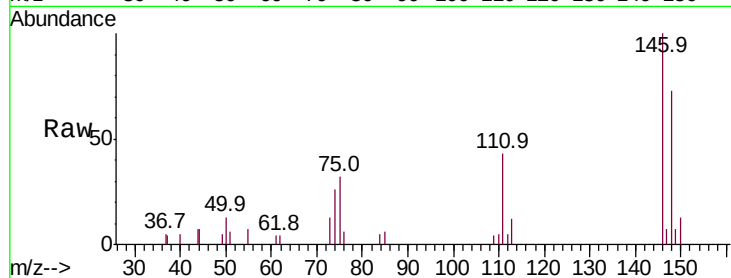
#64
 1,3-Dichlorobenzene
 Concen: 0.242 ug/L
 RT: 11.23 min Scan# 3152
 Delta R.T. -0.00 min
 Lab File: VV012095.D
 Acq: 02 Aug 2019 11:23

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL06

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.0	27.2	50.6
148	73.2	44.5	82.7

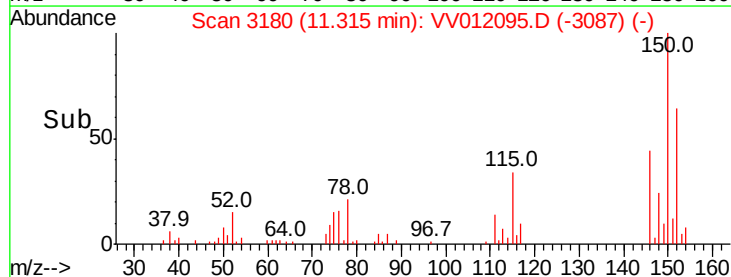
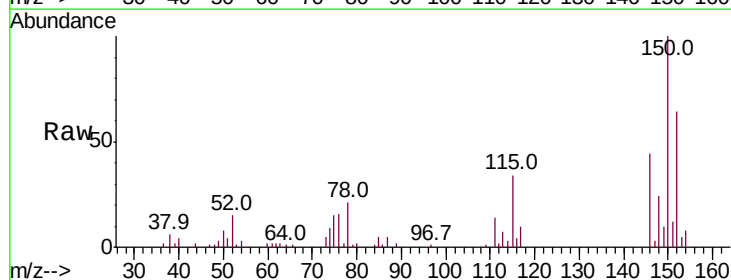
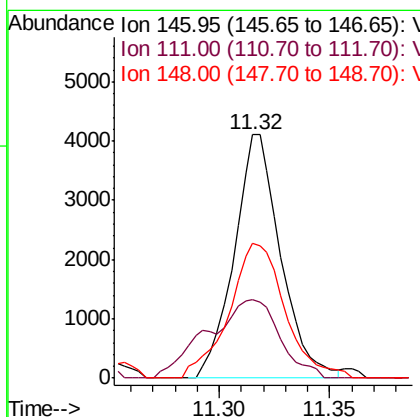
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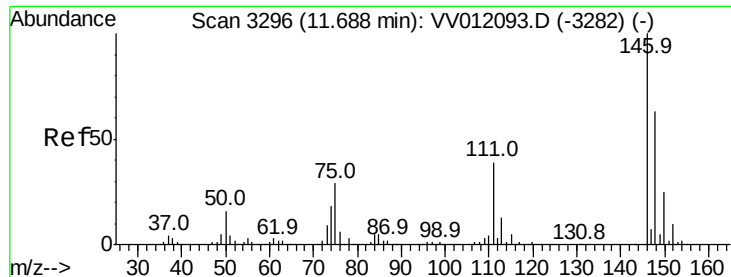
MMDadoda
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#65
 1,4-Dichlorobenzene
 Concen: 0.268 ug/L
 RT: 11.32 min Scan# 3180
 Delta R.T. -0.00 min
 Lab File: VV012095.D
 Acq: 02 Aug 2019 11:23

Tgt Ion	Ratio	Lower	Upper
146	100		
111	32.2	25.8	48.0
148	55.2	43.8	81.3





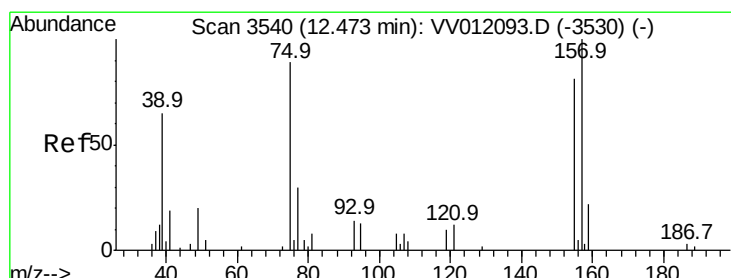
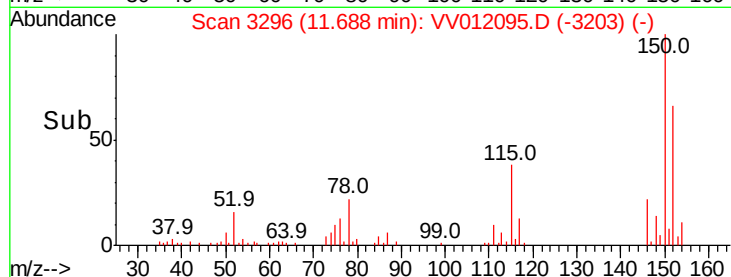
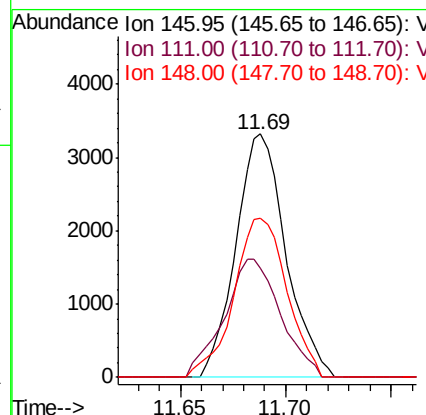
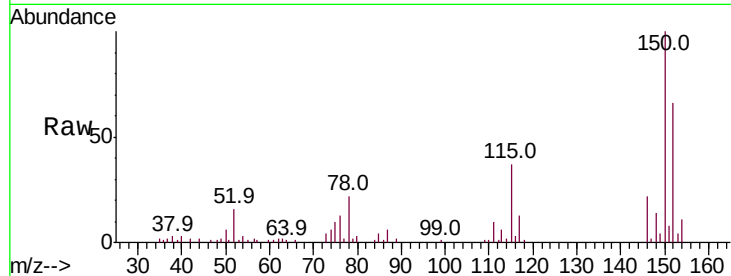
#67
 1,2-Dichlorobenzene
 Concen: 0.273 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. -0.00 min
 Lab File: VV012095.D
 Acq: 02 Aug 2019 11:23

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL06

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.7	32.4	48.6
148	65.5	49.4	74.0

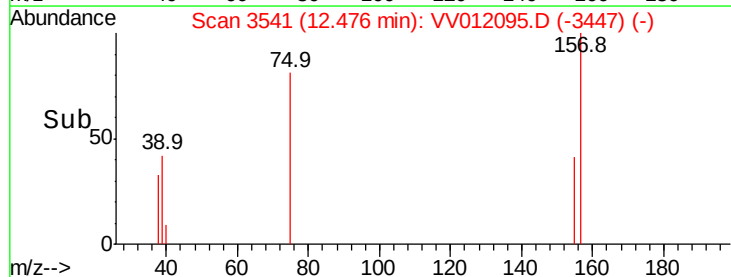
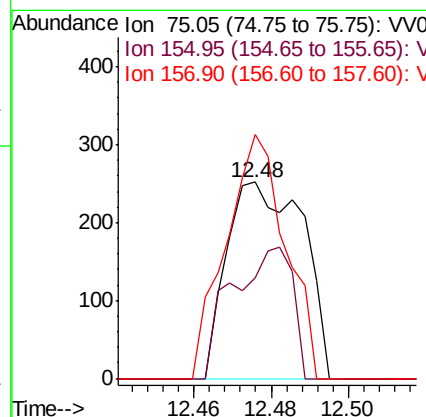
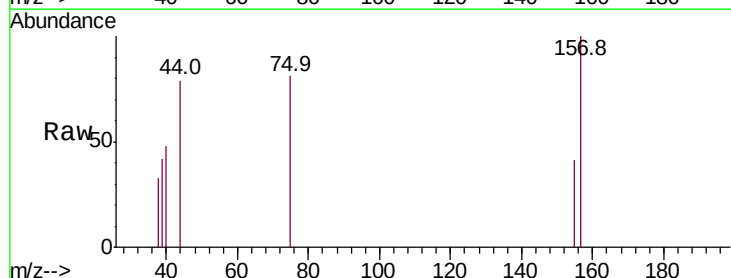
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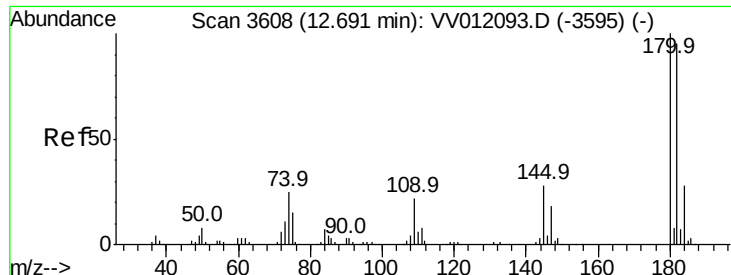
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 0.332 ug/L
 RT: 12.48 min Scan# 3541
 Delta R.T. 0.00 min
 Lab File: VV012095.D
 Acq: 02 Aug 2019 11:23

Tgt Ion	Ratio	Lower	Upper
75	100		
155	51.2	75.0	112.6#
157	124.2	87.8	131.6





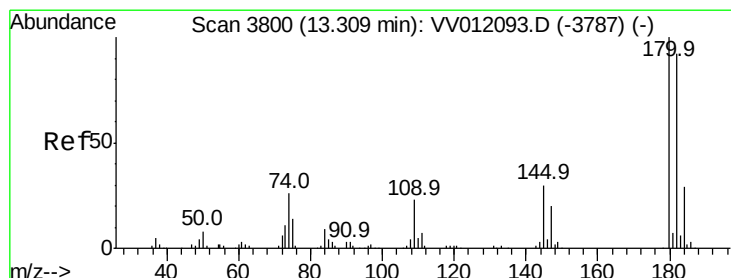
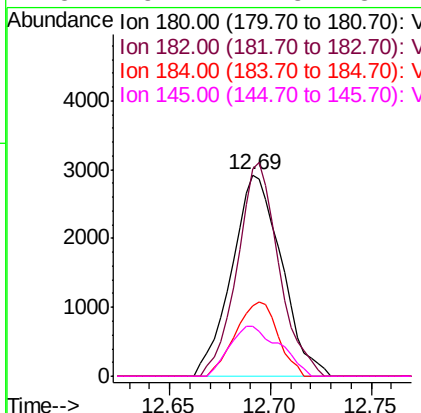
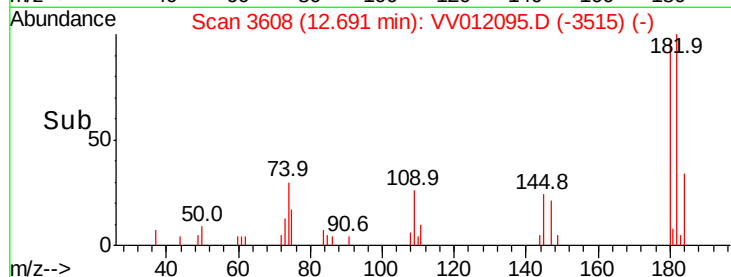
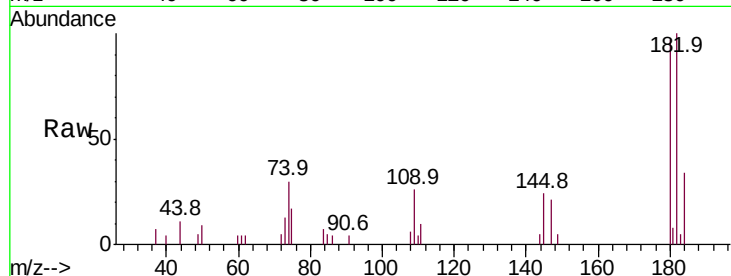
#69
 1,3,5-Trichlorobenzene
 Concen: 0.276 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. -0.00 min
 Lab File: VV012095.D
 Acq: 02 Aug 2019 11:23

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL06

Tot Ion	Ratio	Lower	Upper
180	100		
182	89.0	77.1	115.7
184	31.6	24.6	36.8
145	25.2	22.8	34.2

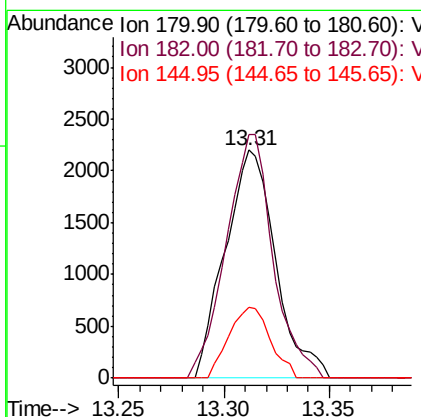
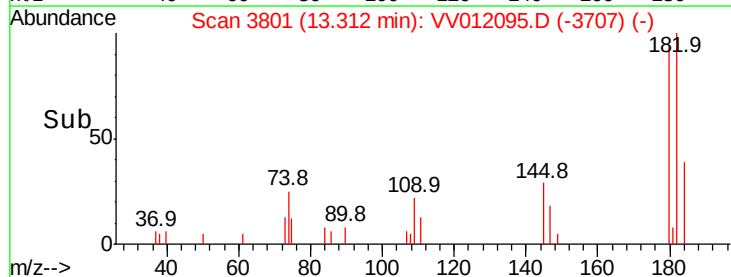
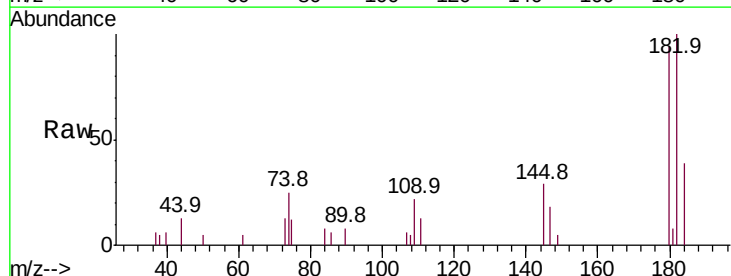
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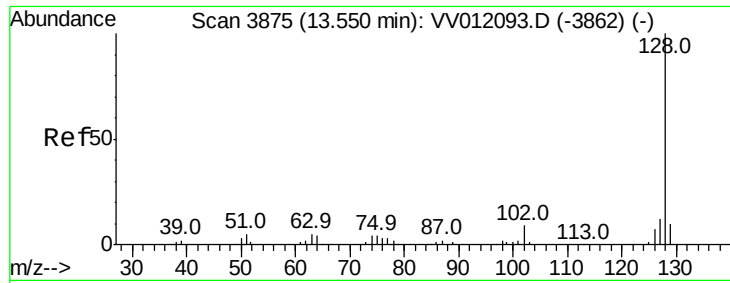
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#70
 1,2,4-trichlorobenzene
 Concen: 0.254 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV012095.D
 Acq: 02 Aug 2019 11:23

Tgt Ion	Ratio	Lower	Upper
180	100		
182	99.2	76.1	114.1
145	25.5	24.3	36.5





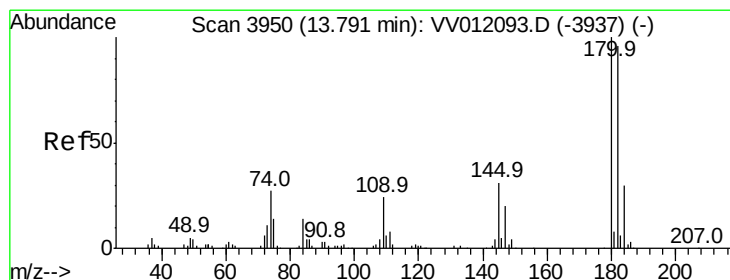
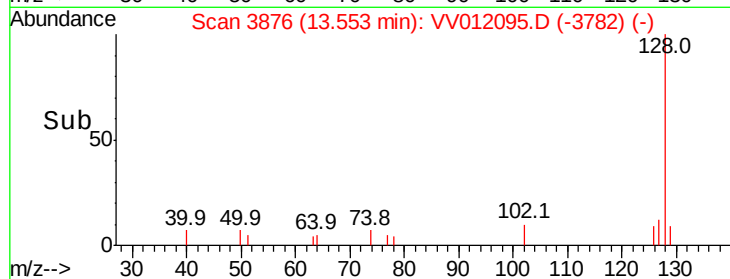
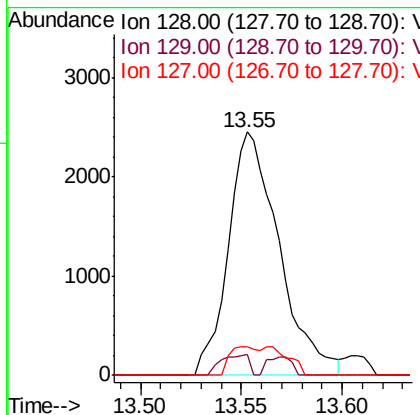
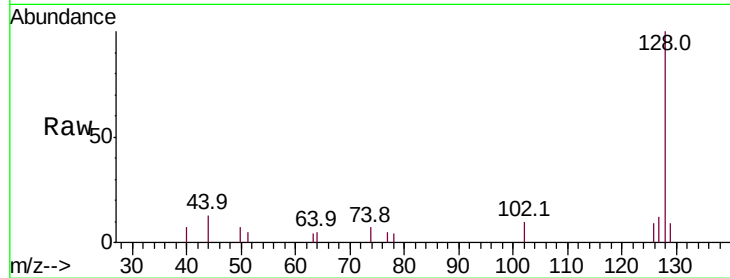
#71
Naphthalene
Concen: 0.216 ug/L
RT: 13.55 min Scan# 3876
Delta R.T. 0.00 min
Lab File: VV012095.D
Acq: 02 Aug 2019 11:23

Instrument :
MSVOA_V
ClientSampleId :
MDL06

Tot Ion	Ratio	Lower	Upper
128	100		
129	4.7	9.1	13.7#
127	7.0	10.4	15.6#

Manual Integrations
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#72
1,2,3-Trichlorobenzene
Concen: 0.245 ug/L
RT: 13.79 min Scan# 3951
Delta R.T. 0.00 min
Lab File: VV012095.D
Acq: 02 Aug 2019 11:23

Tgt Ion	Ratio	Lower	Upper
180	100		
182	104.8	78.5	117.7
145	36.8	25.8	38.8

