

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV080619\
 Data File : VV012114.D
 Acq On : 06 Aug 2019 15:07
 Operator : SY/MD
 Sample : MDL01
 Misc : 5mL/MSVOA V/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Manual Integrations
 APPROVED

MMDadoda
 8/7/2019 9:10:51 AM

Quant Time: Aug 06 18:41:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM080619W.M
 Quant Title : VOC Analysis
 QLast Update : Tue Aug 06 18:20:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	275640	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	253237	50.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	125125	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	69088	45.85	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.70%
7) Chloroethane-d5	1.58	69	48003	44.88	ug/L	0.01
Spiked Amount	50.000	Range	70 - 130	Recovery	=	89.76%
11) 1,1-Dichloroethene-d2	2.13	63	97179	37.20	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	74.40%
21) 2-Butanone-d5	3.92	46	118282	107.74	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	107.74%
24) Chloroform-d	4.40	84	182034	48.15	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.30%
26) 1,2-Dichloroethane-d4	5.08	65	123393	50.81	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	101.62%
32) Benzene-d6	5.10	84	364156	49.97	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.94%
36) 1,2-Dichloropropane-d6	6.12	67	108038	51.18	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.36%
41) Toluene-d8	7.36	98	352087	50.11	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	100.22%
43) trans-1,3-Dichloropropene-	7.66	79	60623	50.51	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	101.02%
47) 2-Hexanone-d5	8.13	63	94325	107.59	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	107.59%
56) 1,1,2,2-Tetrachloroethane-	10.26	84	148894	50.04	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	100.08%
66) 1,2-Dichlorobenzene-d4	11.67	152	152580	51.85	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	103.70%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	4736	2.433	ug/L	100
3) Chloromethane	1.25	50	4048	2.928	ug/L	93
5) Vinyl chloride	1.32	62	2796	2.095	ug/L #	60
6) Bromomethane	1.52	94	2122	2.739	ug/L	98
8) Chloroethane	1.60	64	1576	2.255	ug/L	98
9) Trichlorofluoromethane	1.77	101	5128	2.364	ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	3265	3.070	ug/L #	82
12) 1,1-Dichloroethene	2.14	96	3096	3.091	ug/L #	1
13) Acetone	2.19	43	3698	4.940	ug/L	99
14) Carbon disulfide	2.32	76	7844	2.318	ug/L	97
15) Methyl Acetate	2.46	43	3170	2.420	ug/L	97
16) Methylene chloride	2.53	84	3739	2.461	ug/L	88
17) trans-1,2-Dichloroethene	2.79	96	3420	2.419	ug/L	93
18) Methyl tert-butyl Ether	2.80	73	10396m	2.140	ug/L	
19) 1,1-Dichloroethane	3.23	63	5785	2.243	ug/L	91
20) cis-1,2-Dichloroethene	3.96	96	3802	2.283	ug/L	96
22) 2-Butanone	4.03	43	4874m	5.052	ug/L	

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Manual Integrations
 APPROVED

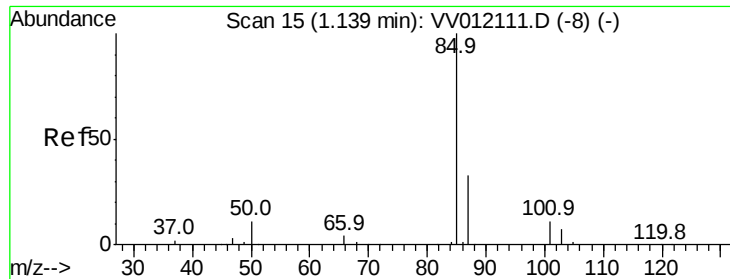
MMDadoda
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Quant Time: Aug 06 18:41:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM080619W.M
 Quant Title : VOC Analysis
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.30	128	2065	2.255	ug/L #	89
25) Chloroform	4.42	83	8327	2.849	ug/L	100
27) 1,2-Dichloroethane	5.18	62	6008	2.644	ug/L #	95
29) Cyclohexane	4.73	56	5153	2.433	ug/L	98
30) 1,1,1-Trichloroethane	4.66	97	6030	2.242	ug/L	93
31) Carbon tetrachloride	4.87	117	5951	2.385	ug/L	98
33) Benzene	5.15	78	13931	2.390	ug/L	100
34) Trichloroethene	5.96	95	4032	2.488	ug/L	98
35) Methylcyclohexane	6.18	83	5922	2.456	ug/L	94
37) 1,2-Dichloropropane	6.22	63	3741m	2.631	ug/L	
38) Bromodichloromethane	6.56	83	5188	2.319	ug/L	98
39) cis-1,3-Dichloropropene	7.07	75	6063	2.419	ug/L	98
40) 4-Methyl-2-pentanone	7.27	43	8545	4.669	ug/L	98
42) Toluene	7.43	91	16684	2.576	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	5457	2.306	ug/L	99
45) 1,1,2-Trichloroethane	7.88	97	3756	2.451	ug/L	94
46) Tetrachloroethene	8.02	164	3540	2.345	ug/L	99
48) 2-Hexanone	8.18	43	6588	4.775	ug/L #	85
49) Dibromochloromethane	8.29	129	4998	2.513	ug/L	86
50) 1,2-Dibromoethane	8.40	107	3832	2.261	ug/L	84
51) Chlorobenzene	8.92	112	11015	2.522	ug/L	91
52) Ethylbenzene	9.05	91	16948	2.332	ug/L	96
53) m,p-Xylene	9.18	106	6620	2.361	ug/L	90
54) o-Xylene	9.59	106	6478	2.328	ug/L	94
55) Styrene	9.60	104	11325	2.416	ug/L	91
57) 1,1,2,2-Tetrachloroethane	10.28	83	6351	2.695	ug/L #	88
59) Bromoform	9.77	173	3542	2.413	ug/L #	96
60) Isopropylbenzene	9.97	105	17203	2.512	ug/L	98
61) 1,2,3-Trichloropropane	10.31	75	4515	2.657	ug/L	96
62) 1,3,5-Trimethylbenzene	10.58	105	14651	2.474	ug/L	99
63) 1,2,4-Trimethylbenzene	10.96	105	13590	2.325	ug/L	96
64) 1,3-Dichlorobenzene	11.22	146	8809	2.549	ug/L	98
65) 1,4-Dichlorobenzene	11.31	146	9357	2.678	ug/L	97
67) 1,2-Dichlorobenzene	11.69	146	9136	2.591	ug/L	96
68) 1,2-Dibromo-3-chloropropan	12.48	75	1554	2.775	ug/L #	81
69) 1,3,5-Trichlorobenzene	12.69	180	6635	2.368	ug/L	95
70) 1,2,4-trichlorobenzene	13.31	180	5205	2.143	ug/L	96
71) Naphthalene	13.56	128	10481	1.702	ug/L	98
72) 1,2,3-Trichlorobenzene	13.79	180	5008	2.049	ug/L	96

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



#2

Dichlorodifluoromethane

Concen: 2.433 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012114.D

Acq: 06 Aug 2019 15:07

Instrument :

MSVOA_V

ClientSampled :

MDL01

Tot Ion: 85 Resp: 4736

Ion Ratio Lower Upper

85 100

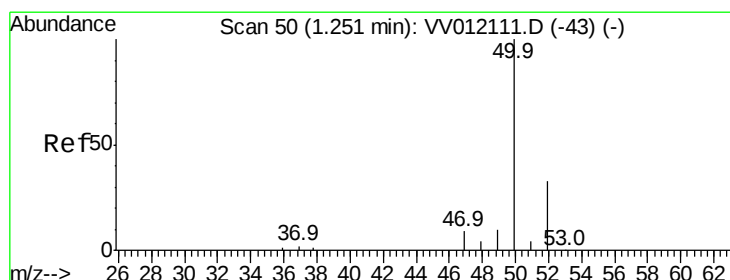
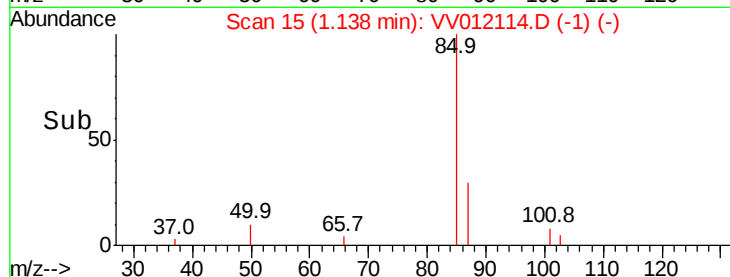
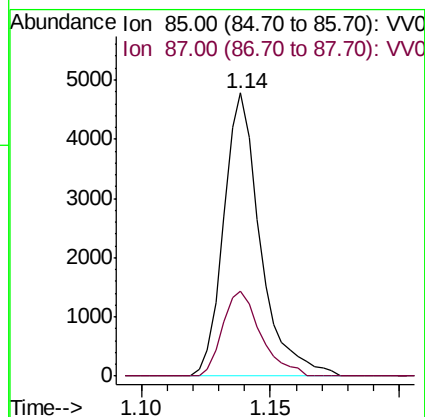
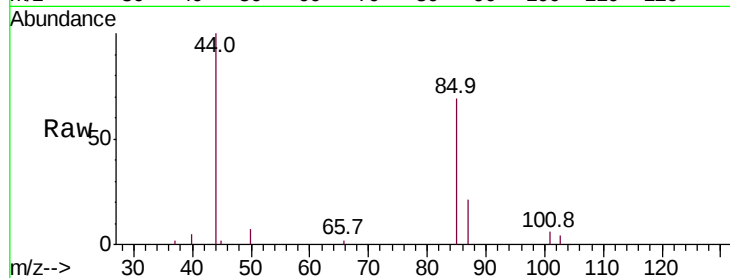
87 31.4 25.3 37.9

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#3

Chloromethane

Concen: 2.928 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV012114.D

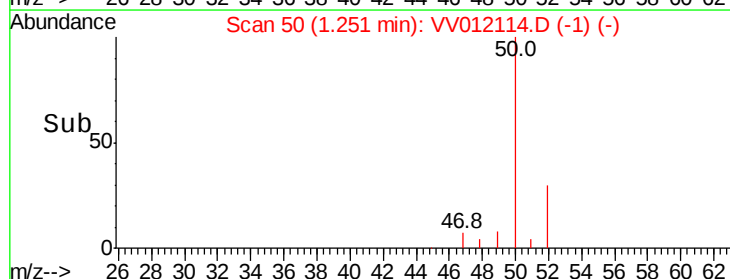
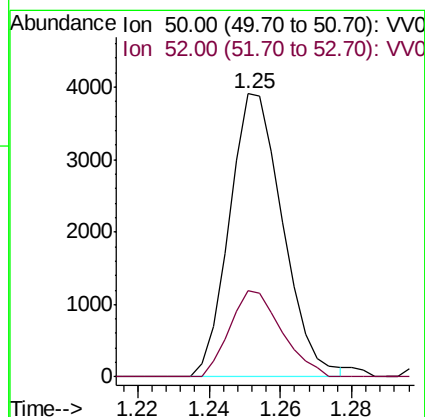
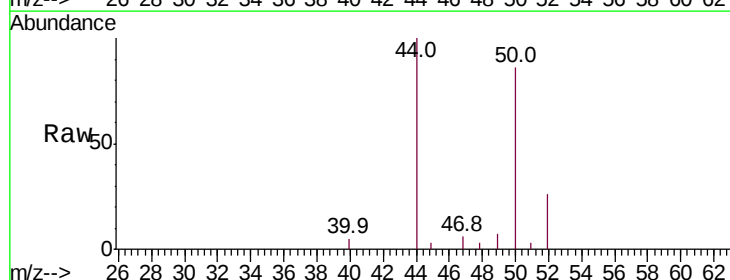
Acq: 06 Aug 2019 15:07

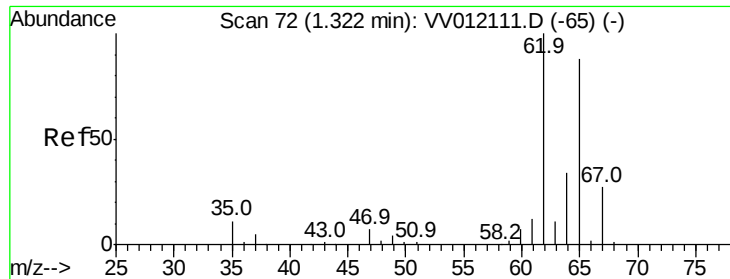
Tgt Ion: 50 Resp: 4048

Ion Ratio Lower Upper

50 100

52 30.3 23.9 44.3





#5

Vinyl chloride

Concen: 2.095 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV012114.D

Acq: 06 Aug 2019 15:07

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion: 62 Resp: 2796

Ion Ratio Lower Upper

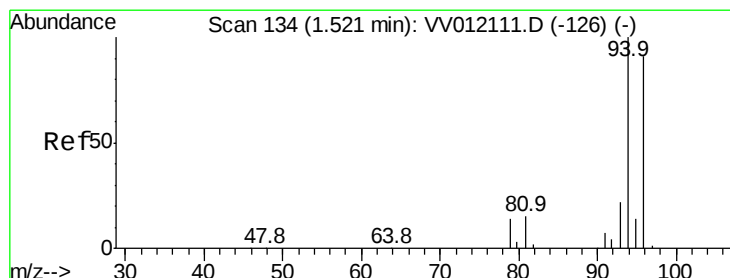
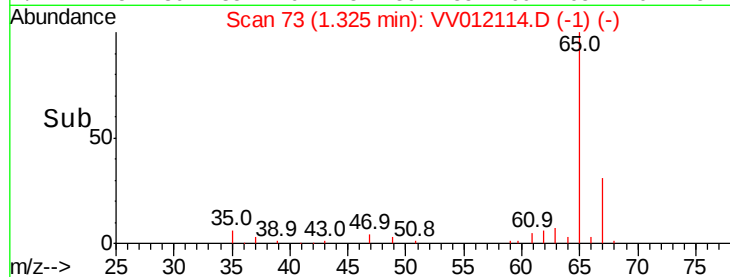
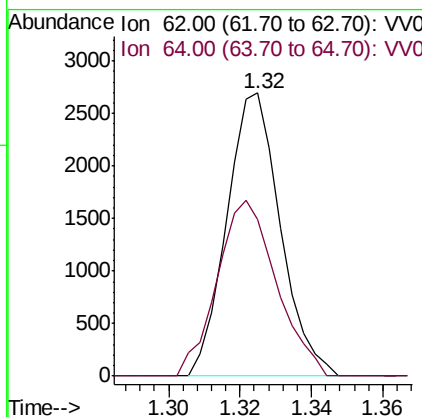
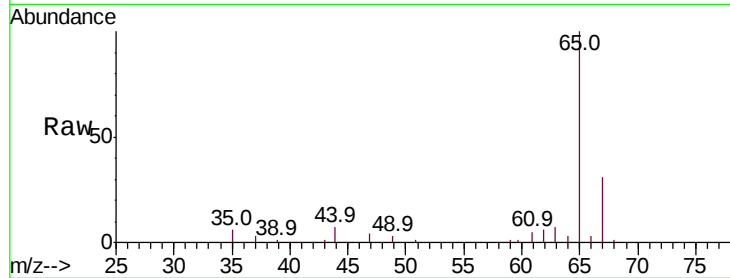
62 100

64 55.3 23.0 42.8#

Manual Integrations
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#6

Bromomethane

Concen: 2.739 ug/L

RT: 1.52 min Scan# 135

Delta R.T. 0.01 min

Lab File: VV012114.D

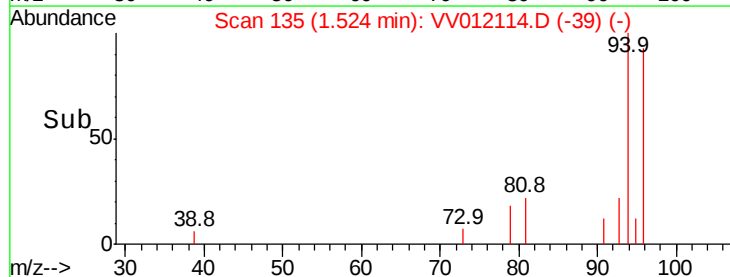
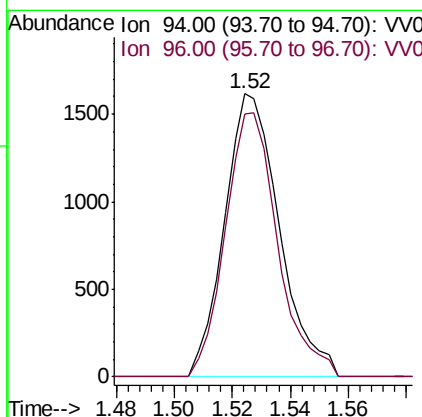
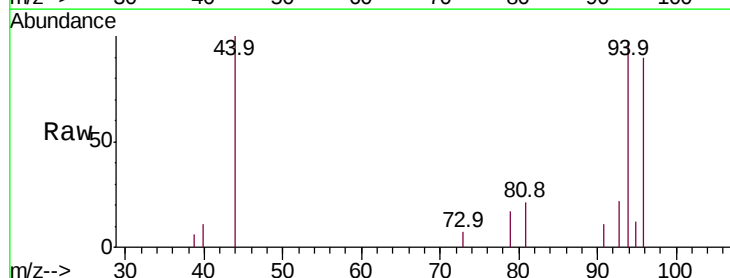
Acq: 06 Aug 2019 15:07

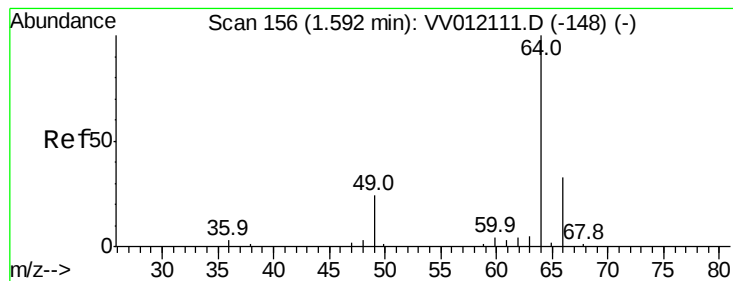
Tgt Ion: 94 Resp: 2122

Ion Ratio Lower Upper

94 100

96 93.1 66.8 124.0





#8

Chloroethane

Concen: 2.255 ug/L

RT: 1.60 min Scan# 157

Delta R.T. 0.01 min

Lab File: VV012114.D

Acq: 06 Aug 2019 15:07

Instrument :

MSVOA_V

ClientSampled :

MDL01

Tot Ion: 64 Resp: 1576

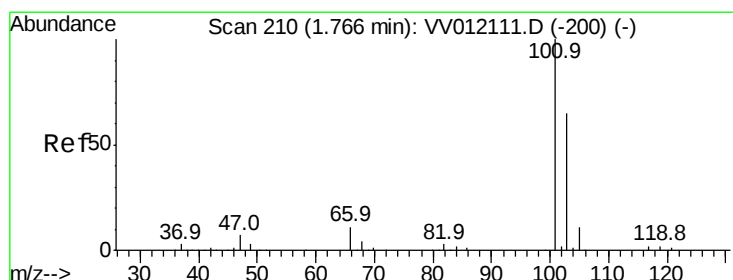
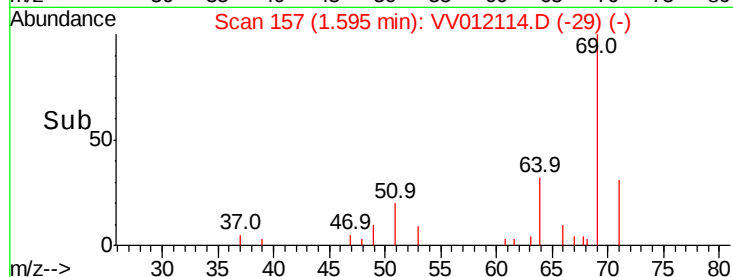
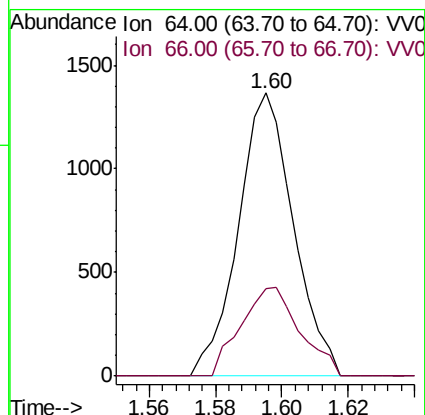
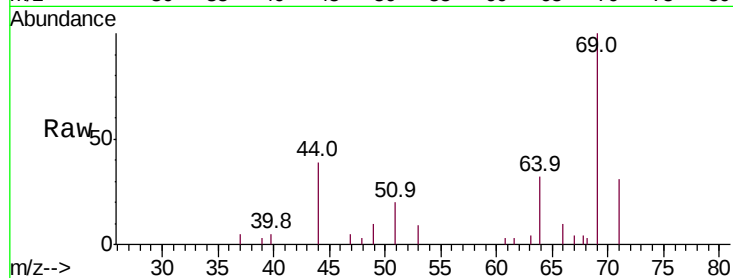
Ion Ratio Lower Upper

64 100

66 31.0 22.6 42.0

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#9

Trichlorofluoromethane

Concen: 2.364 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.01 min

Lab File: VV012114.D

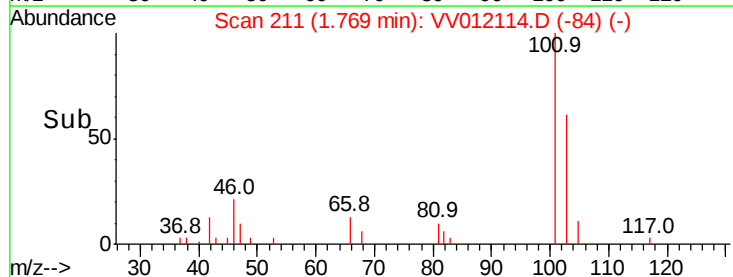
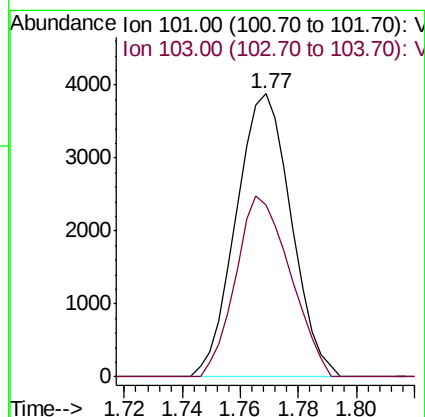
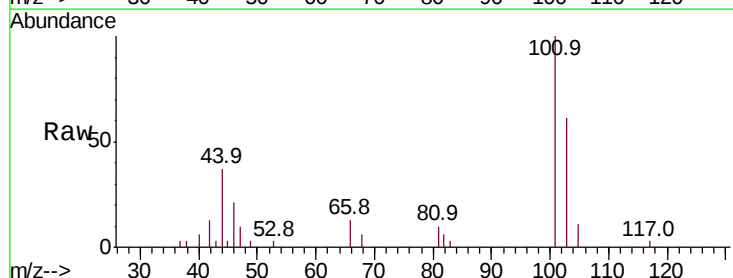
Acq: 06 Aug 2019 15:07

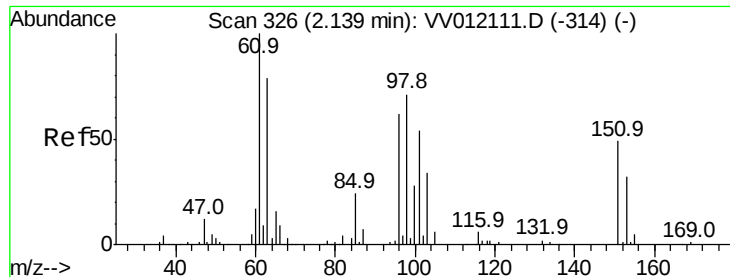
Tgt Ion: 101 Resp: 5128

Ion Ratio Lower Upper

101 100

103 63.1 52.5 78.7





#10

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

Concen: 3.070 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV012114.D

Acq: 06 Aug 2019 15:07

Instrument :

MSVOA_V

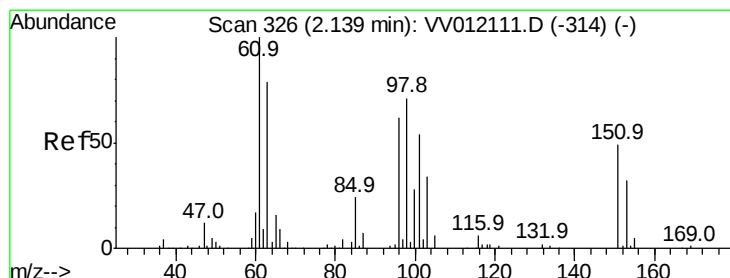
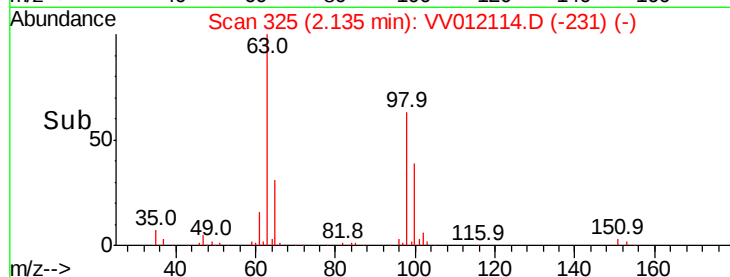
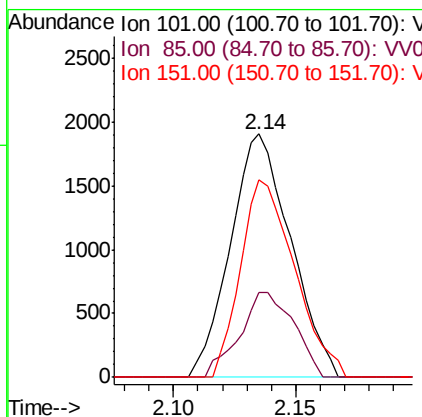
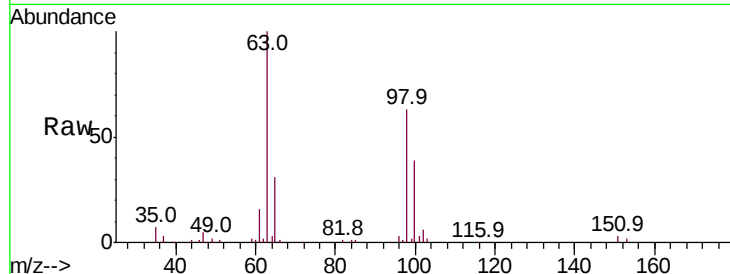
ClientSampled :

MDL01

Tot Ion	Ratio	Lower	Upper
101	100		
85	31.5	34.4	51.6#
151	72.6	72.2	108.2

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 3.091 ug/L

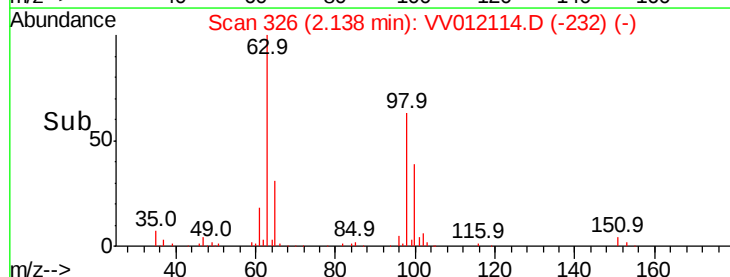
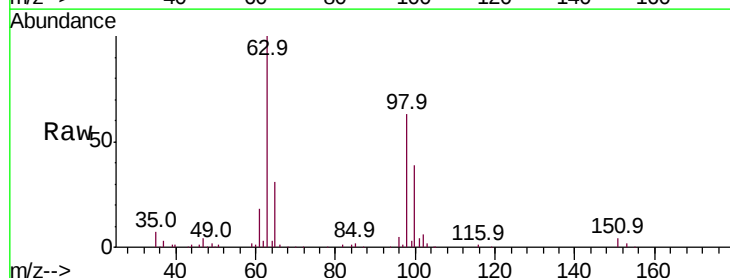
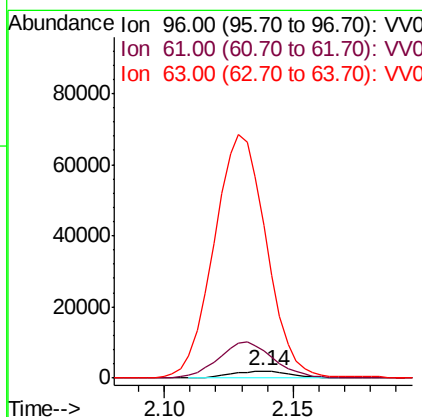
RT: 2.14 min Scan# 326

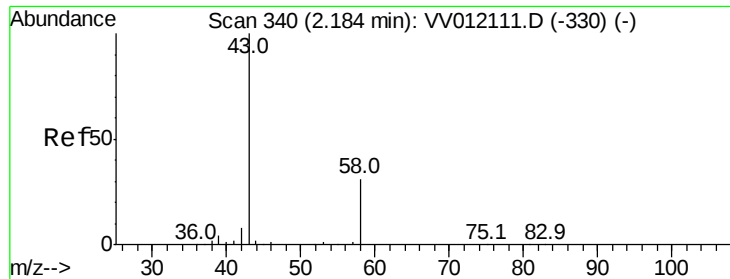
Delta R.T. 0.00 min

Lab File: VV012114.D

Acq: 06 Aug 2019 15:07

Tgt Ion	Ratio	Lower	Upper
96	100		
61	400.6	120.0	223.0#
63	2213.3	98.3	182.7#





#13

Acetone

Concen: 4.940 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

Lab File: VV012114.D

Acq: 06 Aug 2019 15:07

Instrument :

MSVOA_V

ClientSampled :

MDL01

Tot Ion: 43 Resp: 3698

Ion Ratio Lower Upper

43 100

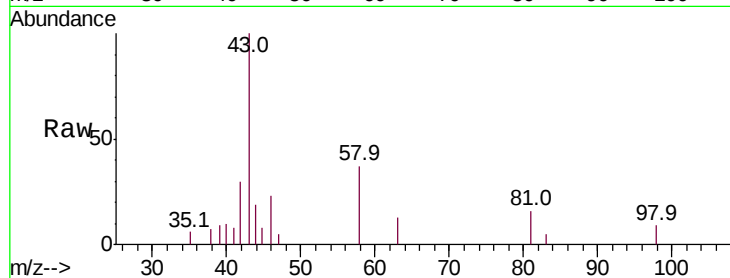
58 30.3 0.0 59.2

Manual Integrations

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8/7/2019 9:10:51 AM



Abundance Ion 43.00 (42.70 to 43.70): VV012111.D (-330) (-)

Ion 58.00 (57.70 to 58.70): VV012111.D (-330) (-)

2500

2000

1500

1000

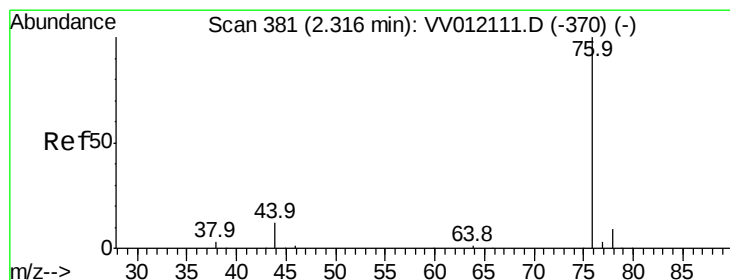
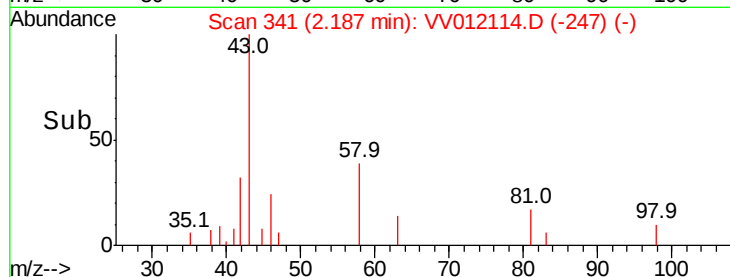
500

0

2.15

2.20

Time-->



#14

Carbon disulfide

Concen: 2.318 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.01 min

Lab File: VV012114.D

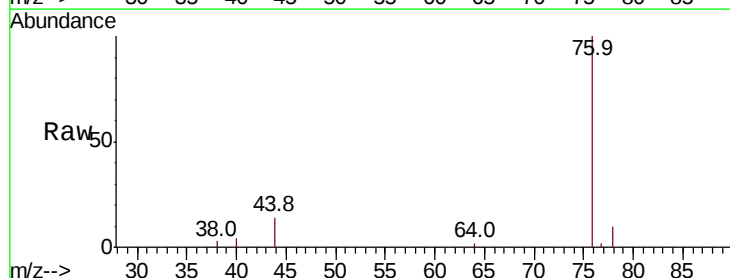
Acq: 06 Aug 2019 15:07

Tgt Ion: 76 Resp: 7844

Ion Ratio Lower Upper

76 100

78 9.8 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VV012111.D (-370) (-)

Ion 78.00 (77.70 to 78.70): VV012111.D (-370) (-)

6000

5000

4000

3000

2000

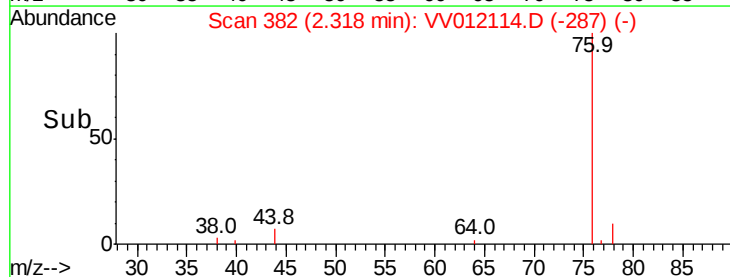
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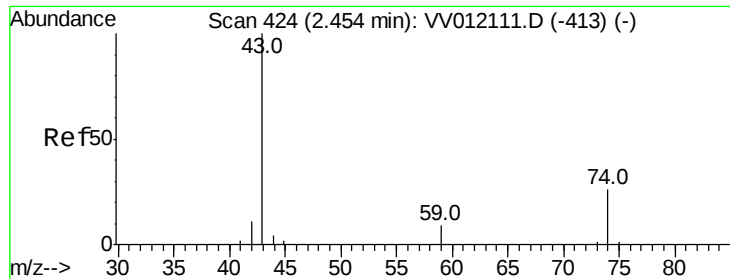
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2.30

2.35

Time-->





#15

Methyl Acetate

Concen: 2.420 ug/L

RT: 2.46 min Scan# 426

Delta R.T. 0.01 min

Lab File: VV012114.D

Acq: 06 Aug 2019 15:07

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion: 43 Resp: 3170

Ion Ratio Lower Upper

43 100

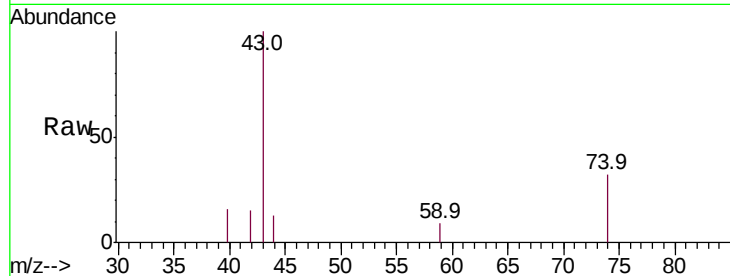
74 28.8 21.8 32.6

Manual Integrations

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8/7/2019 9:10:51 AM



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0

2000

1500

1000

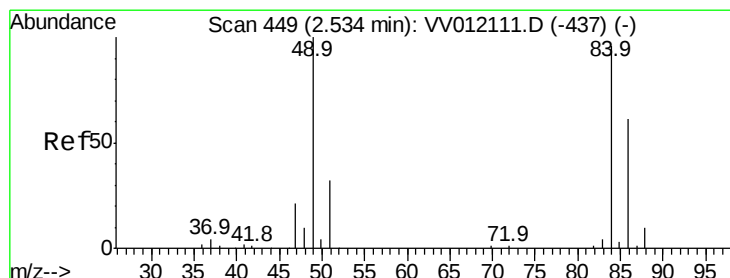
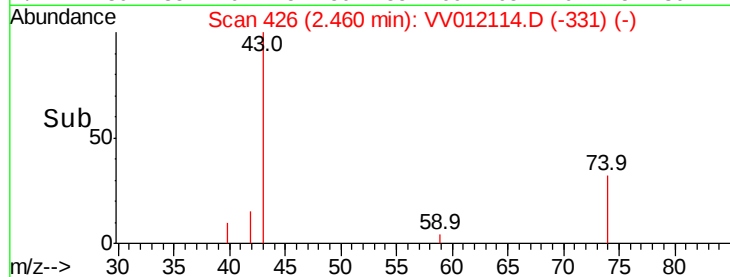
500

0

2.45

2.50

Time-->



#16

Methylene chloride

Concen: 2.461 ug/L

RT: 2.53 min Scan# 449

Delta R.T. -0.00 min

Lab File: VV012114.D

Acq: 06 Aug 2019 15:07

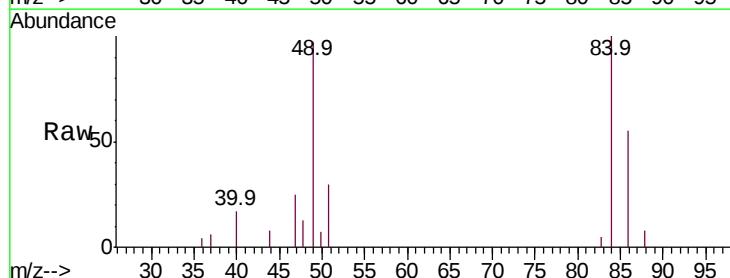
Tgt Ion: 84 Resp: 3739

Ion Ratio Lower Upper

84 100

86 54.5 45.7 84.9

49 97.0 76.6 142.2



Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

3000

2500

2000

1500

1000

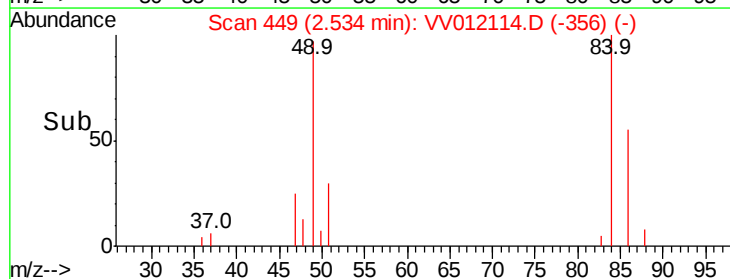
500

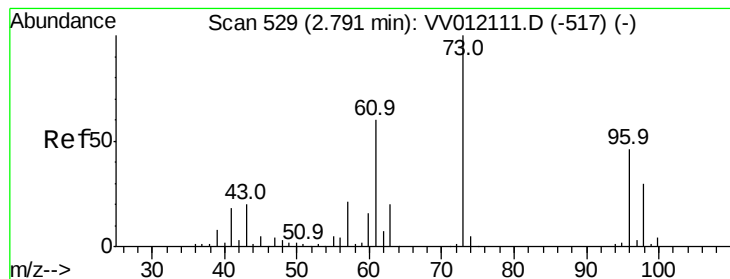
0

2.50

2.55

Time-->





#17

trans-1,2-Dichloroethene

Concen: 2.419 ug/L

RT: 2.79 min Scan# 529

Delta R.T. 0.00 min

Lab File: VV012114.D

Acq: 06 Aug 2019 15:07

Instrument :

MSVOA_V

ClientSampled :

MDL01

Tot Ion: 96 Resp: 3420

Ion Ratio Lower Upper

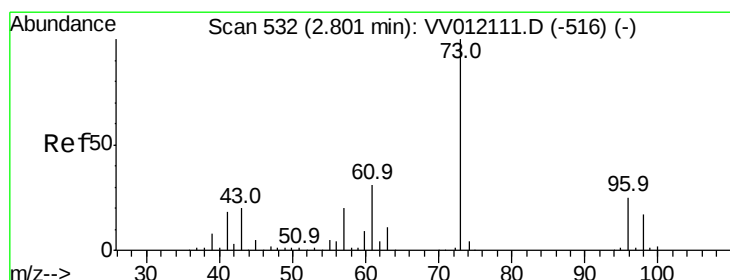
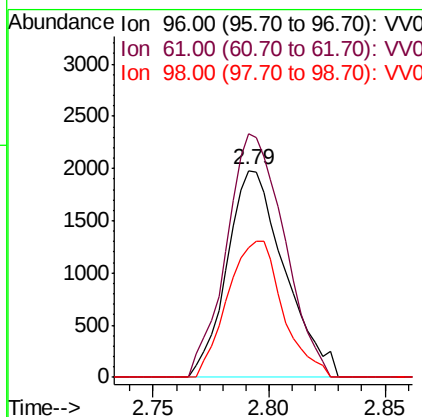
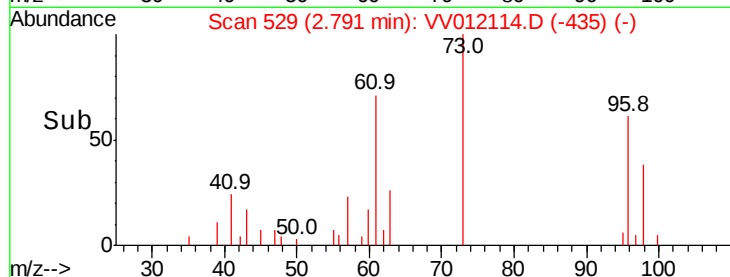
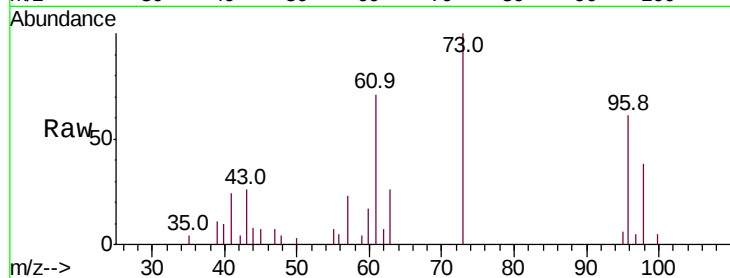
96 100

61 117.5 90.6 168.3

98 62.4 44.2 82.2

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#18

Methyl tert-butyl Ether

Concen: 2.140 ug/L m

RT: 2.80 min Scan# 532

Delta R.T. -0.00 min

Lab File: VV012114.D

Acq: 06 Aug 2019 15:07

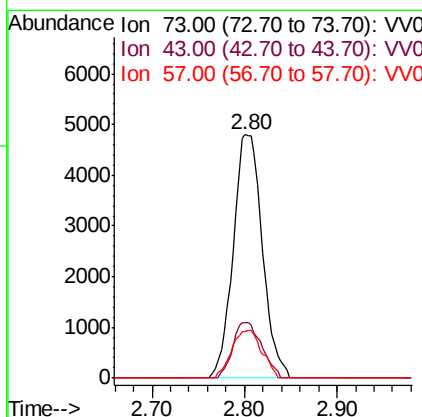
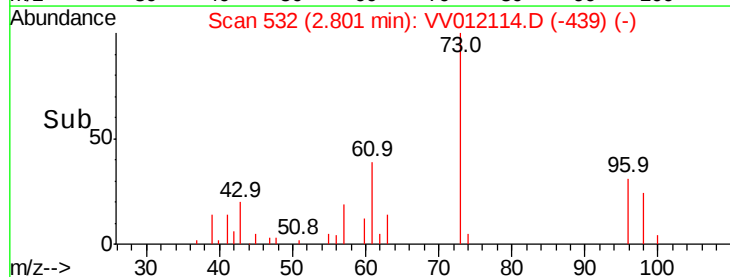
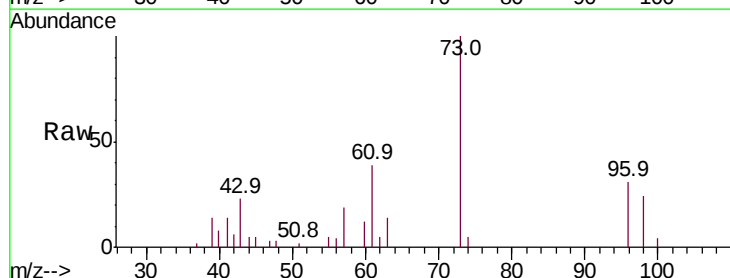
Tgt Ion: 73 Resp: 10396

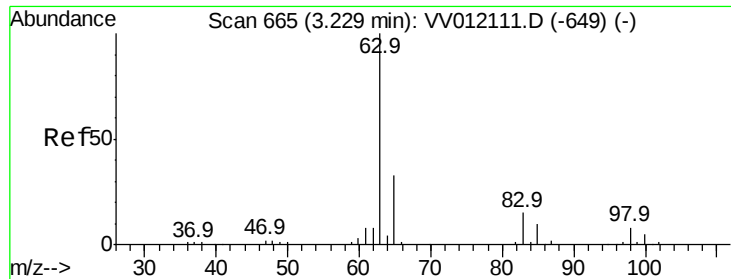
Ion Ratio Lower Upper

73 100

43 22.9 15.6 23.4

57 20.4 16.0 24.0





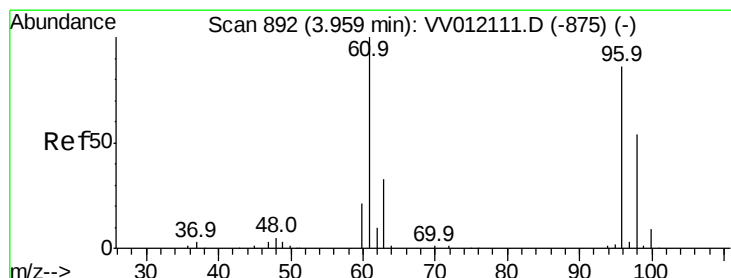
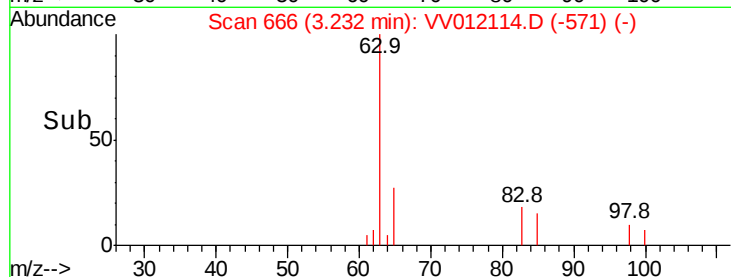
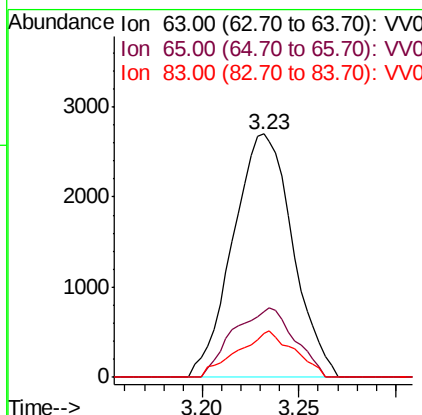
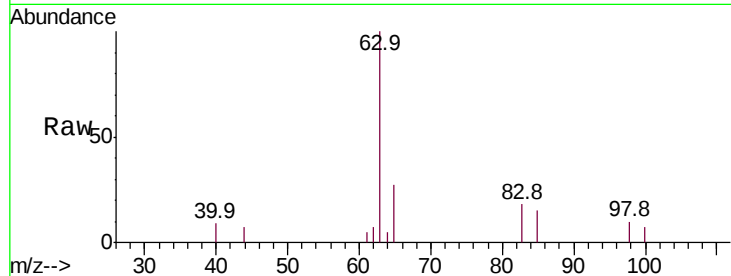
#19
 1,1-Dichloroethane
 Concen: 2.243 ug/L
 RT: 3.23 min Scan# 666
 Delta R.T. 0.01 min
 Lab File: VV012114.D
 Acq: 06 Aug 2019 15:07

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
63	100		
65	26.9	22.3	41.3
83	18.1	10.3	19.1

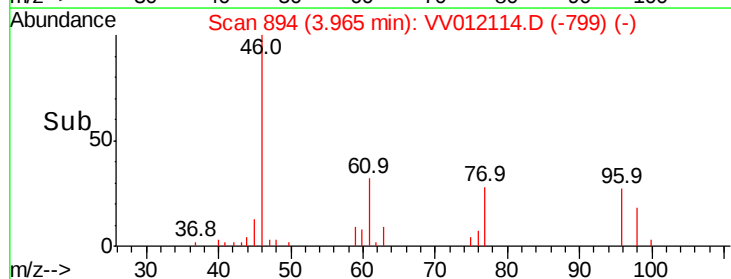
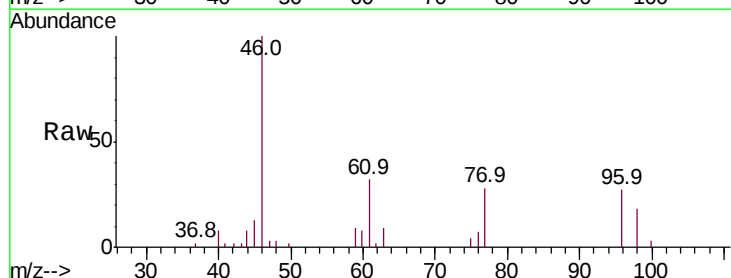
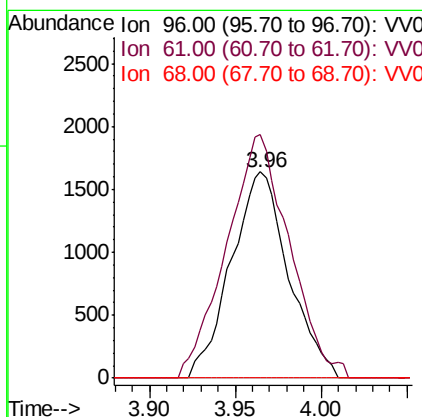
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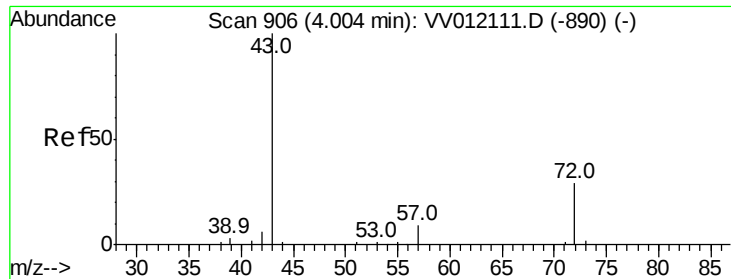
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#20
 cis-1,2-Dichloroethene
 Concen: 2.283 ug/L
 RT: 3.96 min Scan# 894
 Delta R.T. 0.01 min
 Lab File: VV012114.D
 Acq: 06 Aug 2019 15:07

Tgt Ion	Ratio	Lower	Upper
96	100		
61	118.1	80.0	148.6
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 5.052 ug/L m

RT: 4.03 min Scan# 914

Delta R.T. 0.02 min

Lab File: VV012114.D

Acq: 06 Aug 2019 15:07

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion: 43 Resp: 4874

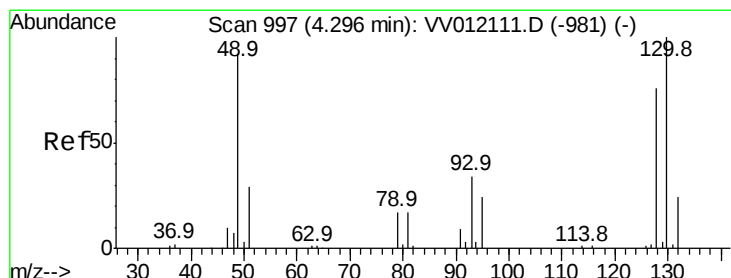
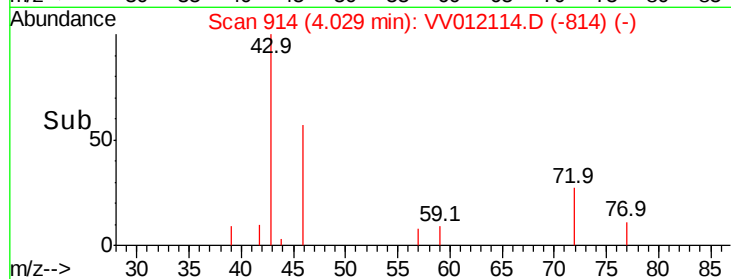
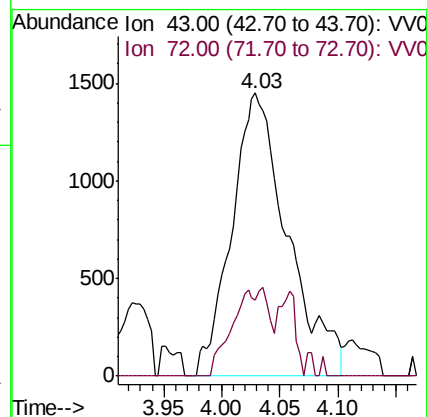
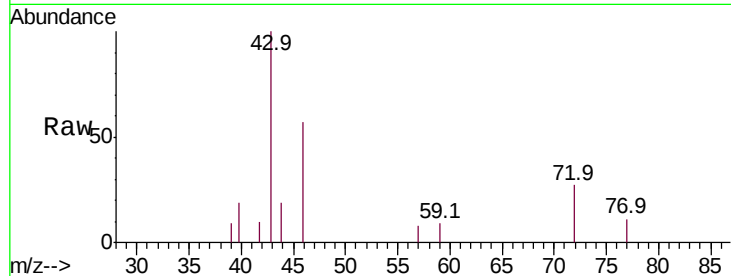
Ion Ratio Lower Upper

43 100

72 1.0 15.0 45.0#

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#23

Bromochloromethane

Concen: 2.255 ug/L

RT: 4.30 min Scan# 998

Delta R.T. 0.01 min

Lab File: VV012114.D

Acq: 06 Aug 2019 15:07

Tgt Ion: 128 Resp: 2065

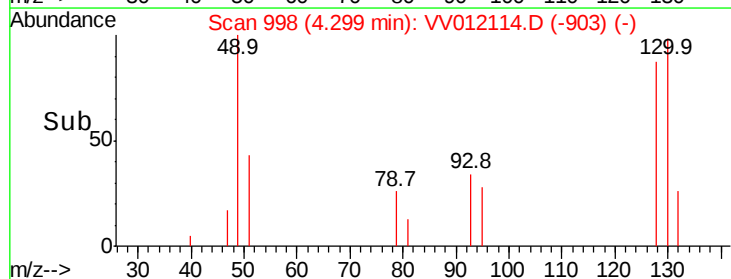
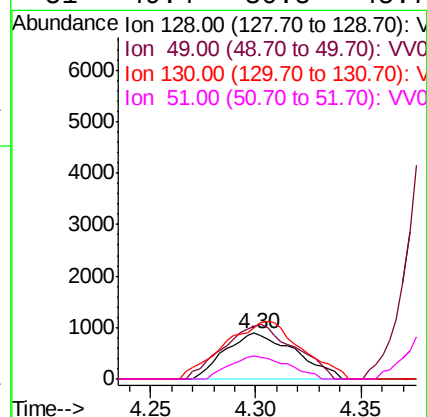
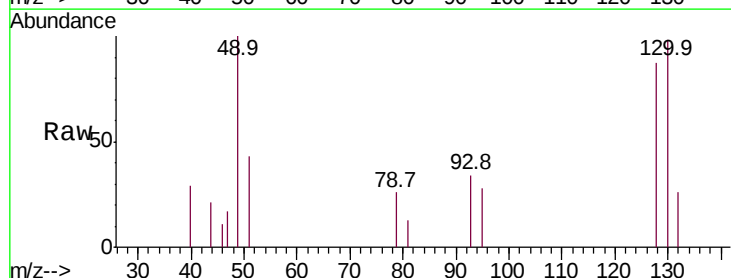
Ion Ratio Lower Upper

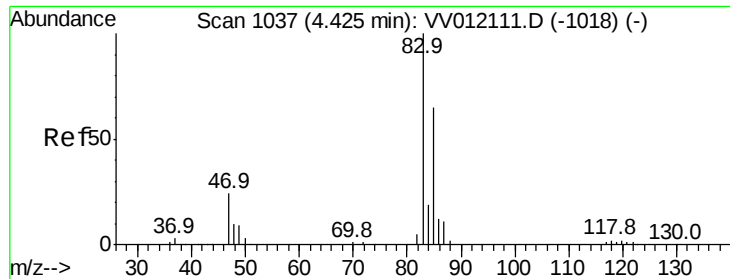
128 100

49 115.2 84.6 157.2

130 112.9 89.9 167.0

51 49.4 30.5 45.7#





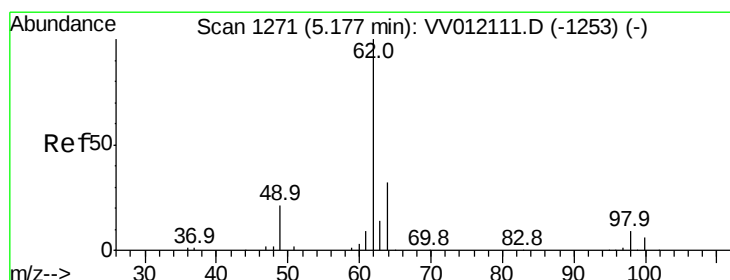
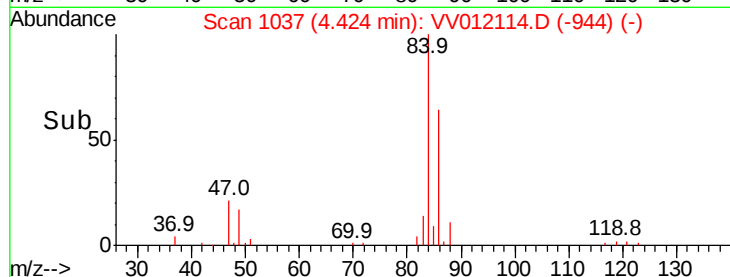
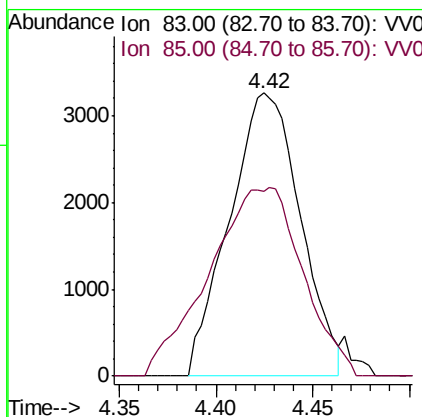
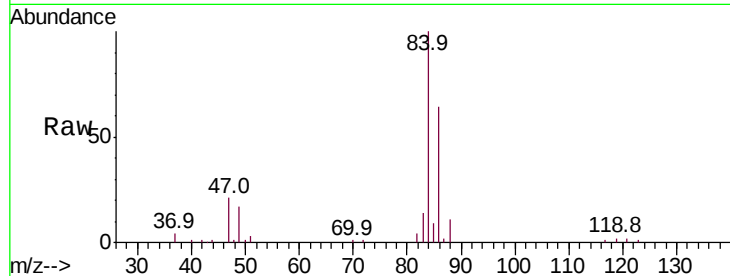
#25
Chloroform
Concen: 2.849 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. -0.00 min
Lab File: VV012114.D
Acq: 06 Aug 2019 15:07

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tot Ion: 83 Resp: 8327
Ion Ratio Lower Upper
83 100
85 65.5 45.8 85.2

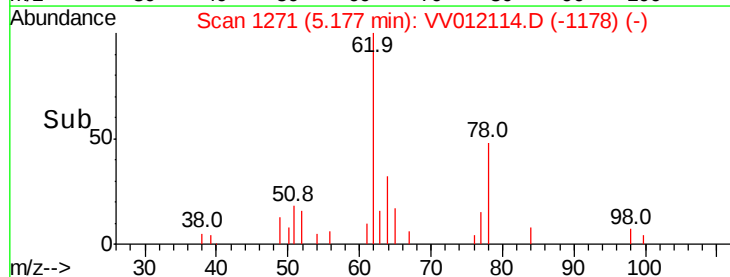
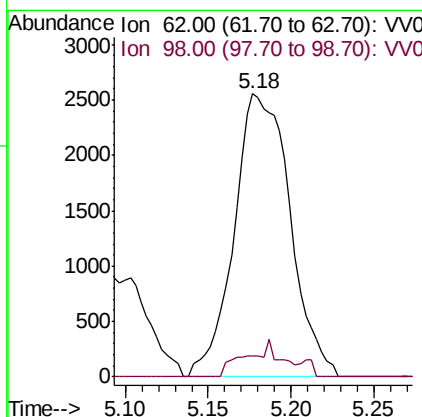
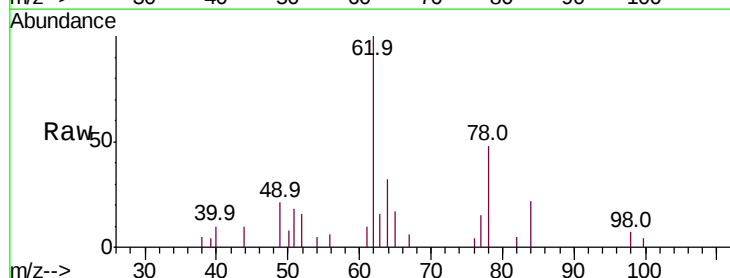
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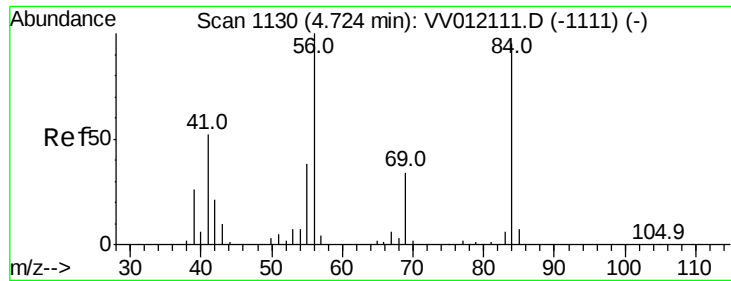
MMDadoda
8/7/2019 9:10:51 AM



#27
1,2-Dichloroethane
Concen: 2.644 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VV012114.D
Acq: 06 Aug 2019 15:07

Tgt Ion: 62 Resp: 6008
Ion Ratio Lower Upper
62 100
98 7.4 7.5 11.3#





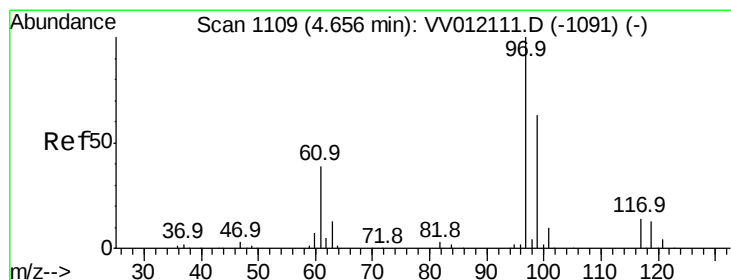
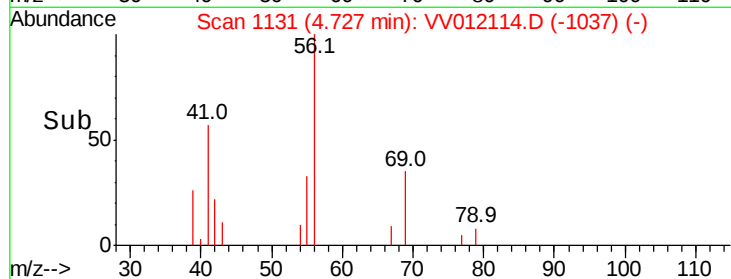
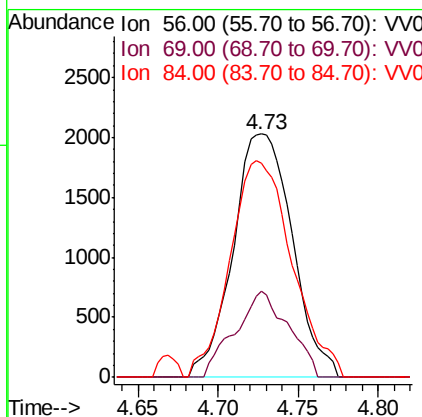
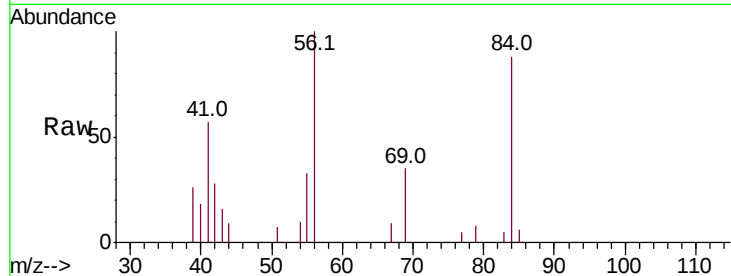
#29
Cyclohexane
Concen: 2.433 ug/L
RT: 4.73 min Scan# 1131
Delta R.T. 0.00 min
Lab File: VV012114.D
Acq: 06 Aug 2019 15:07

Instrument :
MSVOA_V
ClientSampled :
MDL01

Tot Ion: 56 Resp: 5153
Ion Ratio Lower Upper
56 100
69 32.0 25.8 38.8
84 93.1 76.0 114.0

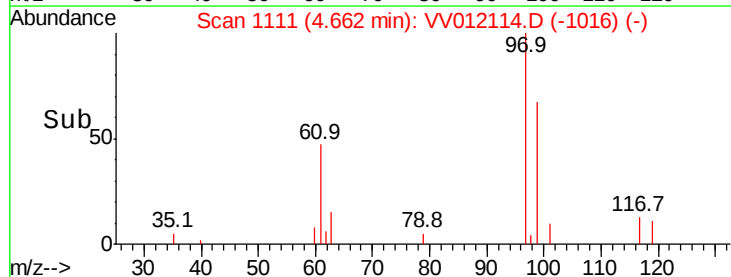
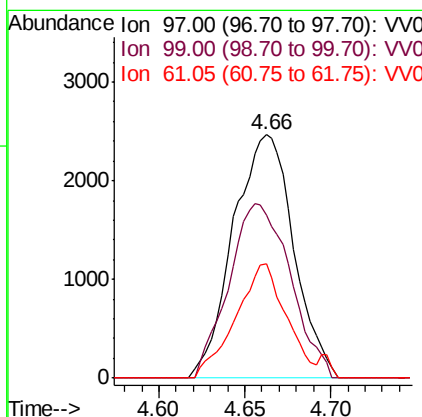
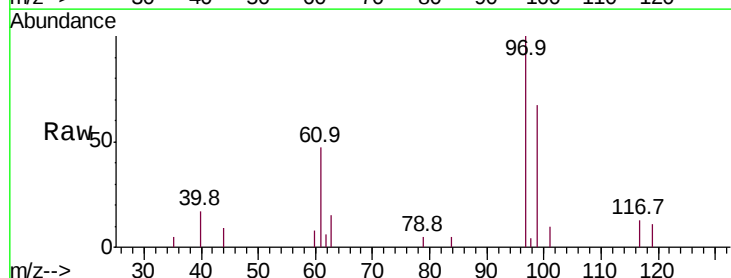
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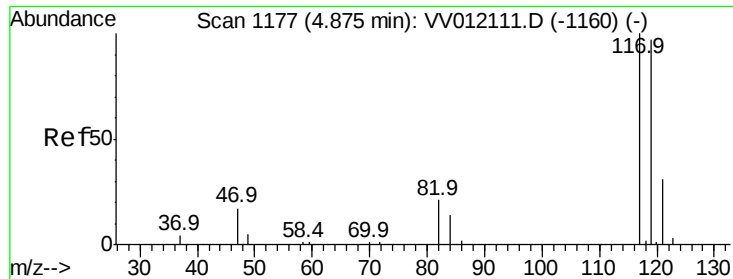
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#30
1,1,1-Trichloroethane
Concen: 2.242 ug/L
RT: 4.66 min Scan# 1111
Delta R.T. 0.01 min
Lab File: VV012114.D
Acq: 06 Aug 2019 15:07

Tgt Ion: 97 Resp: 6030
Ion Ratio Lower Upper
97 100
99 72.8 51.1 76.7
61 39.4 31.3 46.9





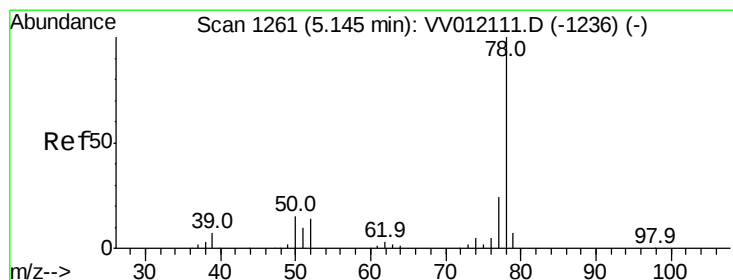
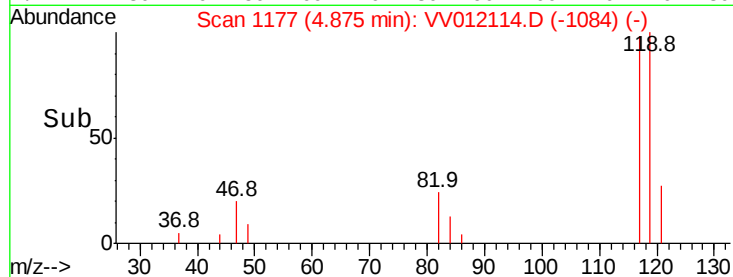
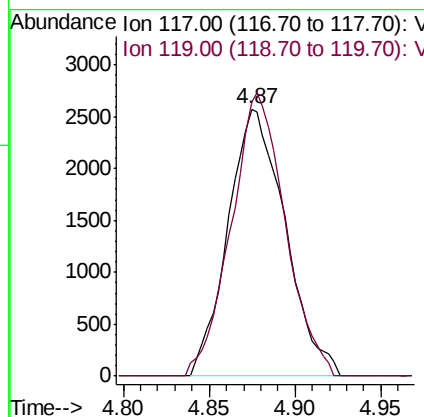
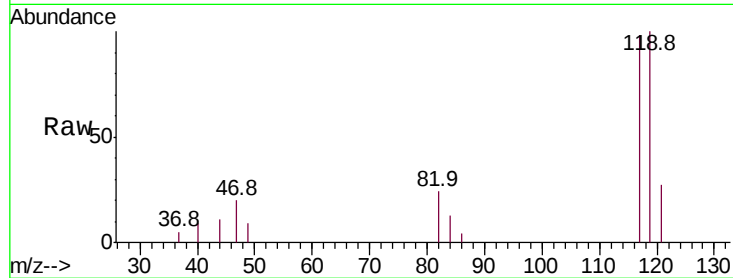
#31
Carbon tetrachloride
Concen: 2.385 ug/L
RT: 4.87 min Scan# 1177
Delta R.T. -0.00 min
Lab File: VV012114.D
Acq: 06 Aug 2019 15:07

Instrument :
MSVOA_V
ClientSampleId :
MDL01

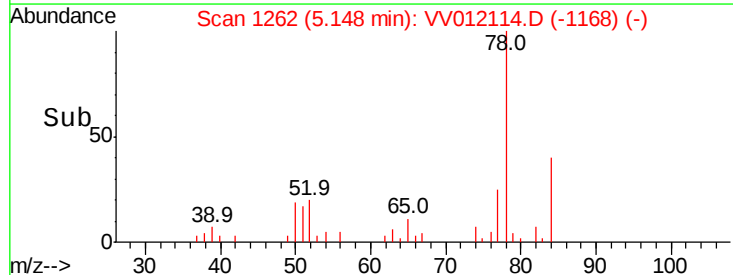
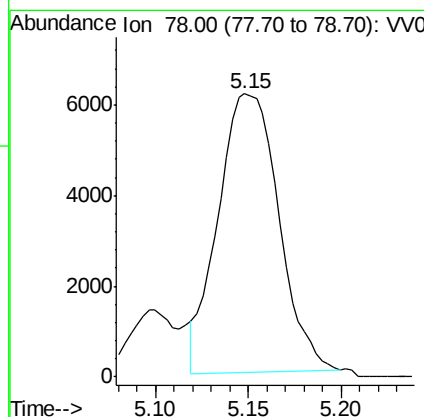
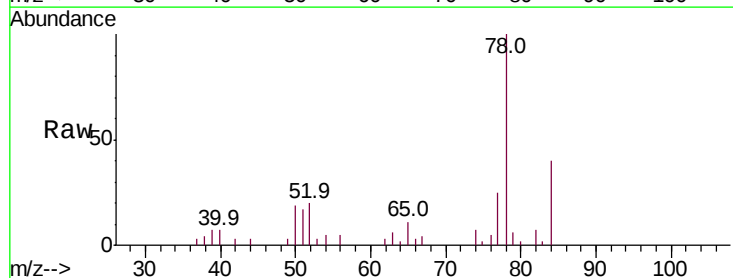
Tot Ion:117 Resp: 5951
Ion Ratio Lower Upper
117 100
119 100.2 78.2 117.4

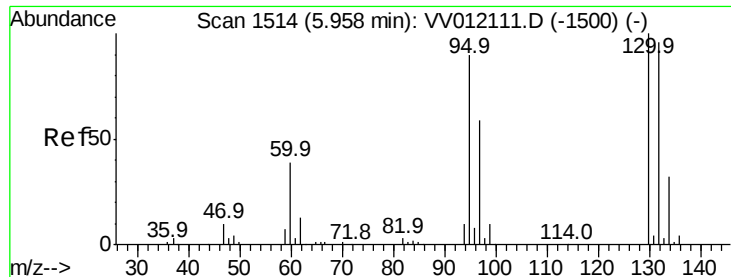
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#33
Benzene
Concen: 2.390 ug/L
RT: 5.15 min Scan# 1262
Delta R.T. 0.00 min
Lab File: VV012114.D
Acq: 06 Aug 2019 15:07
Tgt Ion: 78 Resp: 13931





#34
 Trichloroethene
 Concen: 2.488 ug/L
 RT: 5.96 min Scan# 1516
 Delta R.T. 0.01 min
 Lab File: VV012114.D
 Acq: 06 Aug 2019 15:07

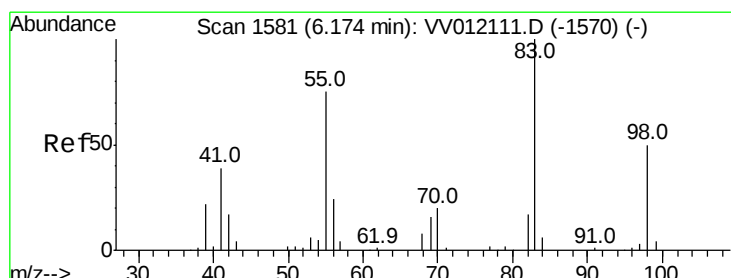
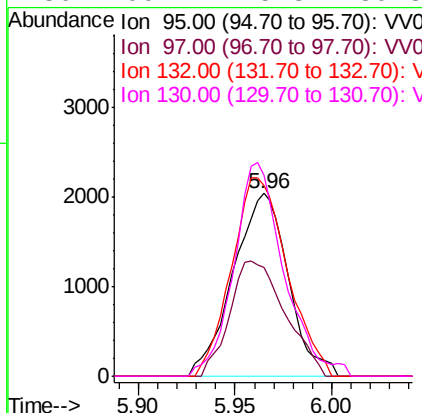
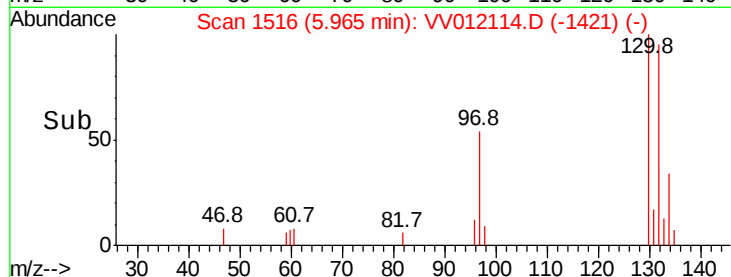
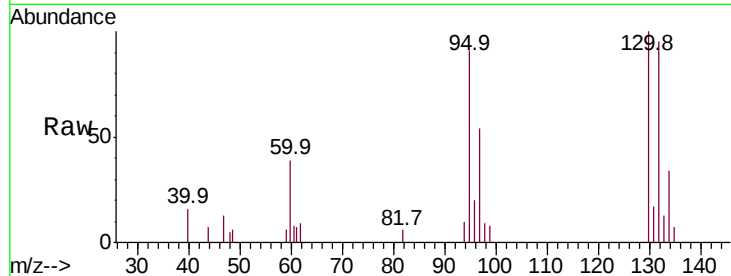
Instrument :
 MSVOA_V
 ClientSampled :
 MDL01

Tot Ion: 95 Resp: 4032

Ion	Ratio	Lower	Upper
95	100		
97	59.2	43.4	80.6
132	104.6	73.1	135.8
130	109.7	75.3	139.8

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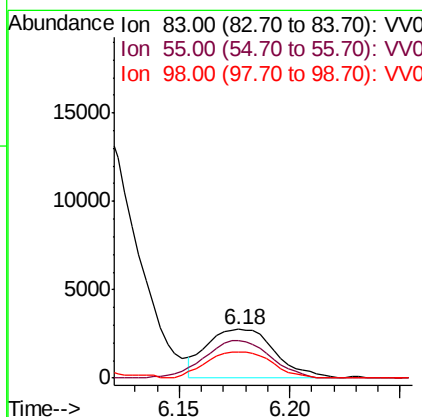
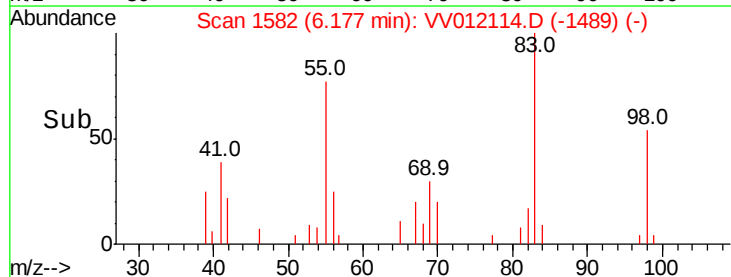
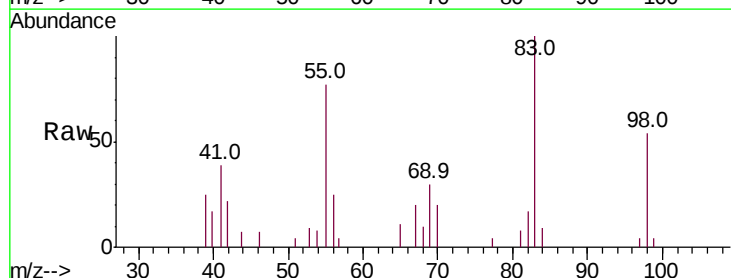
MMDadoda
 8/7/2019 9:10:51 AM

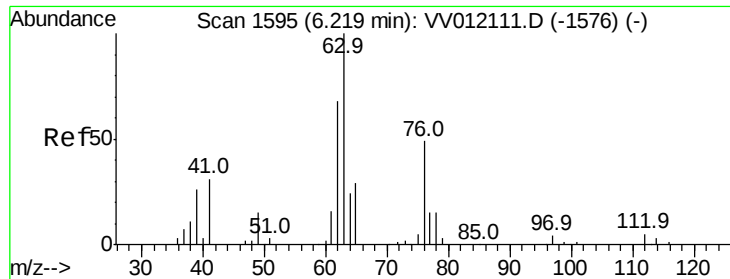


#35
 Methylcyclohexane
 Concen: 2.456 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. -0.00 min
 Lab File: VV012114.D
 Acq: 06 Aug 2019 15:07

Tgt Ion: 83 Resp: 5922

Ion	Ratio	Lower	Upper
83	100		
55	74.7	55.5	83.3
98	51.7	38.5	57.7





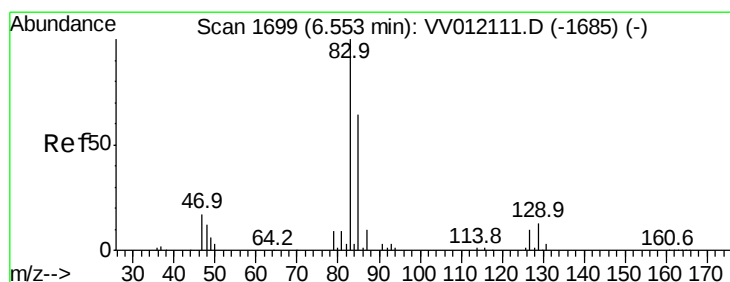
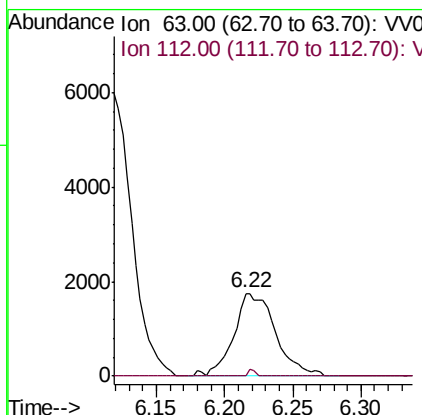
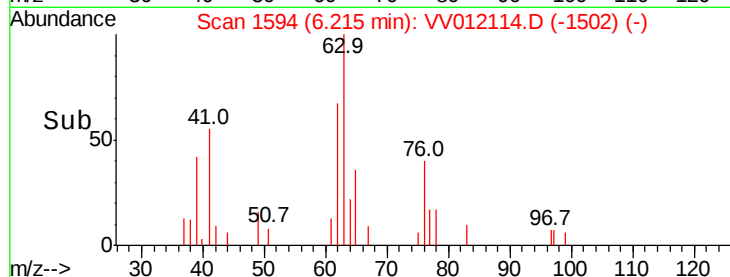
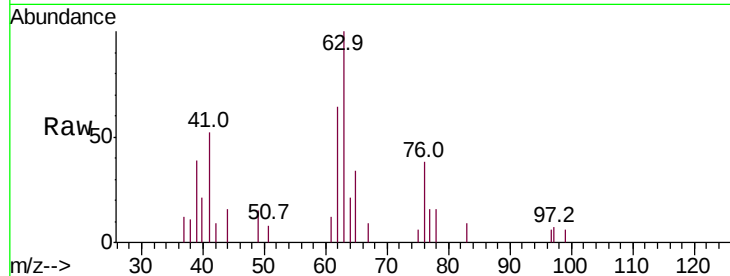
#37
 1,2-Dichloropropane
 Concen: 2.631 ug/L m
 RT: 6.22 min Scan# 1594
 Delta R.T. -0.00 min
 Lab File: VV012114.D
 Acq: 06 Aug 2019 15:07

Instrument :
 MSVOA_V
 ClientSampled :
 MDL01

Tot Ion: 63 Resp: 3741
 Ion Ratio Lower Upper
 63 100
 112 1.3 4.2 6.2#

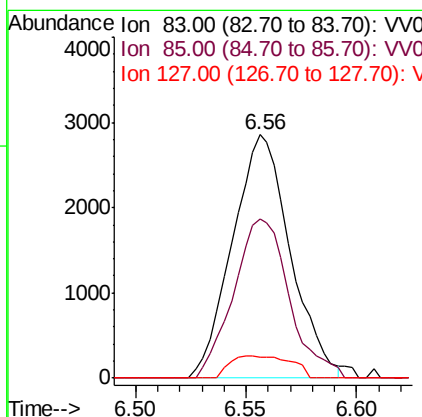
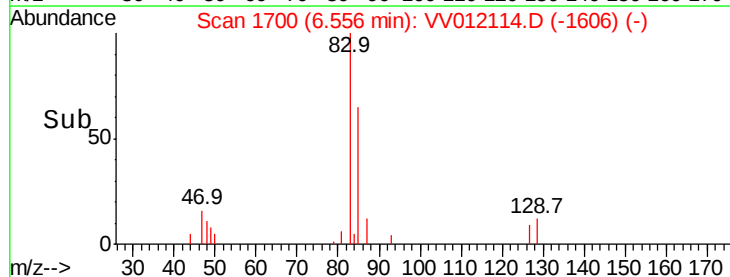
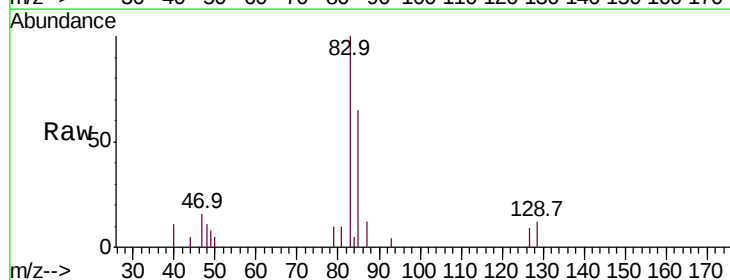
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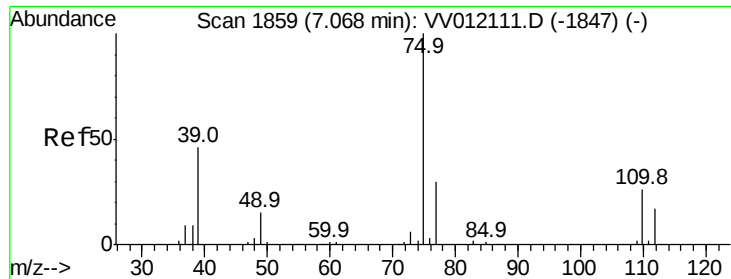
MMDadoda
 8/7/2019 9:10:51 AM



#38
 Bromodichloromethane
 Concen: 2.319 ug/L
 RT: 6.56 min Scan# 1700
 Delta R.T. 0.00 min
 Lab File: VV012114.D
 Acq: 06 Aug 2019 15:07

Tgt Ion: 83 Resp: 5188
 Ion Ratio Lower Upper
 83 100
 85 65.3 45.0 83.6
 127 8.5 7.9 11.9





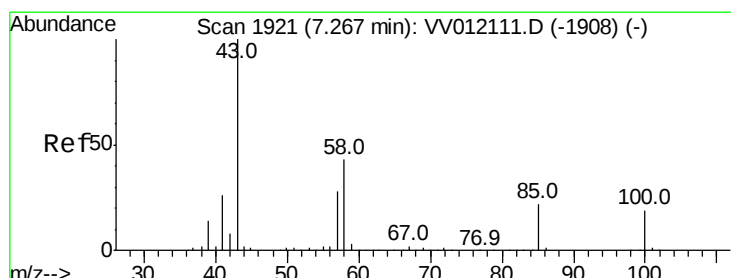
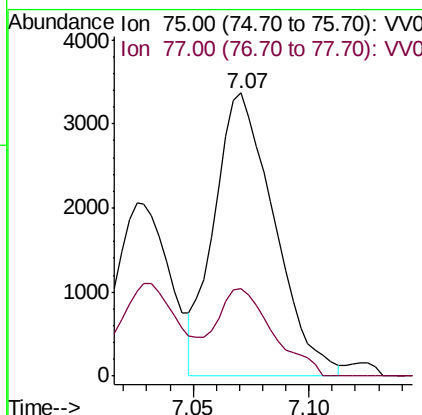
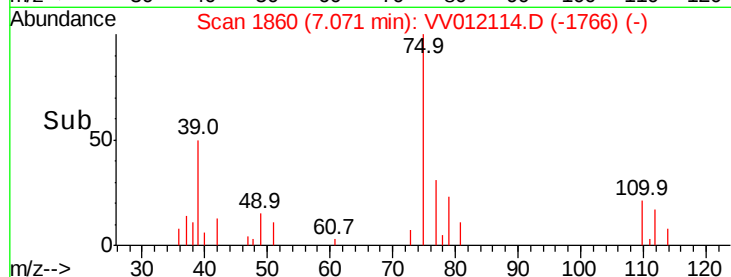
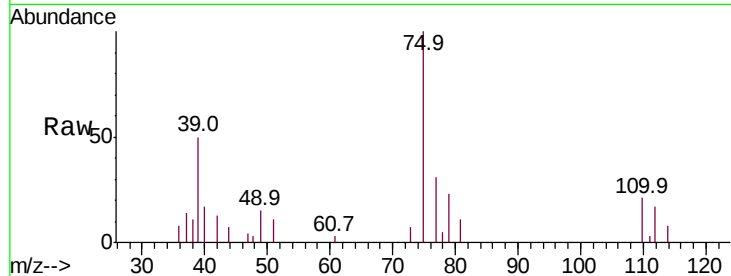
#39
 cis-1,3-Dichloropropene
 Concen: 2.419 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VV012114.D
 Acq: 06 Aug 2019 15:07

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Tot Ion: 75 Resp: 6063
 Ion Ratio Lower Upper
 75 100
 77 30.8 22.3 41.5

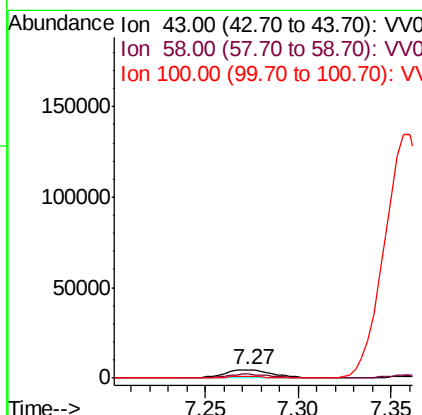
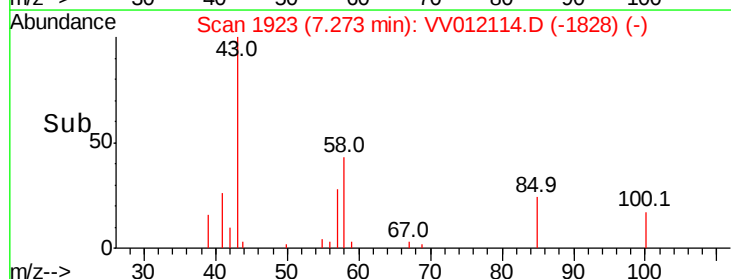
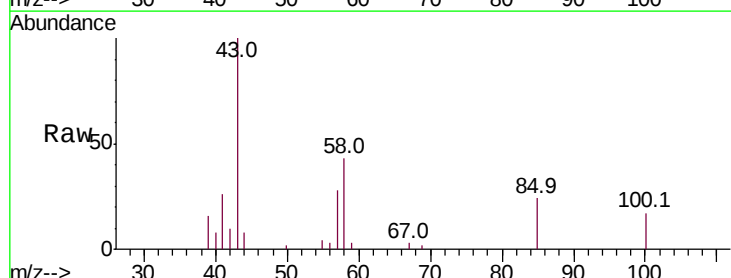
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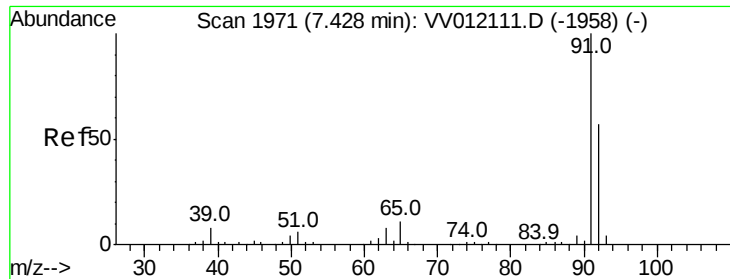
MMDadoda
 8/7/2019 9:10:51 AM



#40
 4-Methyl-2-pentanone
 Concen: 4.669 ug/L
 RT: 7.27 min Scan# 1923
 Delta R.T. 0.01 min
 Lab File: VV012114.D
 Acq: 06 Aug 2019 15:07

Tgt Ion: 43 Resp: 8545
 Ion Ratio Lower Upper
 43 100
 58 42.9 33.4 50.2
 100 17.5 15.0 22.4





#42

Toluene

Concen: 2.576 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VV012114.D

Acq: 06 Aug 2019 15:07

Instrument :

MSVOA_V

ClientSampled :

MDL01

Tot Ion: 91 Resp: 16684

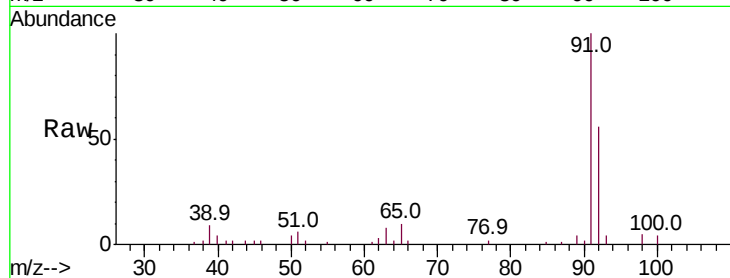
Ion Ratio Lower Upper

91 100

92 56.2 40.1 74.5

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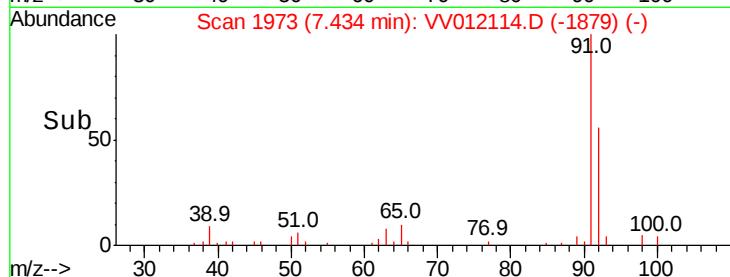


Abundance Ion 91.00 (90.70 to 91.70): VV012111.D (-1958) (-)

Ion 92.00 (91.70 to 92.70): VV012111.D (-1958) (-)

7.43

Time-->

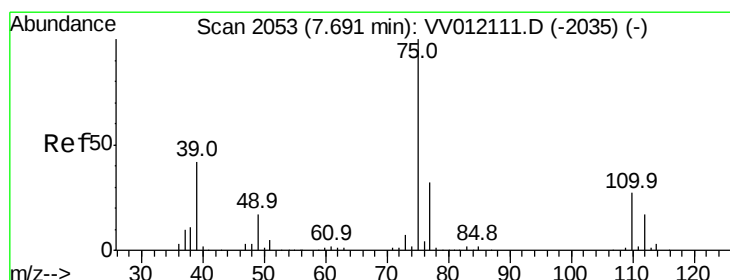


Abundance Ion 91.00 (90.70 to 91.70): VV012114.D (-1879) (-)

Ion 92.00 (91.70 to 92.70): VV012114.D (-1879) (-)

7.43

Time-->



#44

trans-1,3-Dichloropropene

Concen: 2.306 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV012114.D

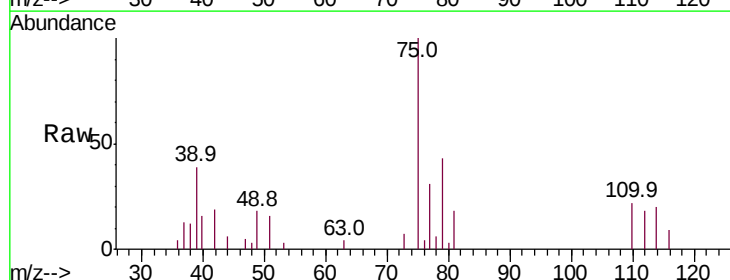
Acq: 06 Aug 2019 15:07

Tgt Ion: 75 Resp: 5457

Ion Ratio Lower Upper

75 100

77 30.6 21.8 40.4

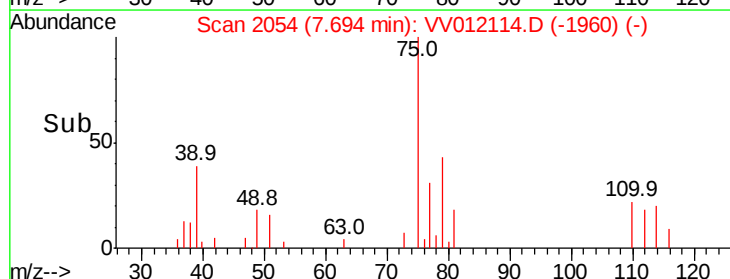


Abundance Ion 75.00 (74.70 to 75.70): VV012111.D (-2035) (-)

Ion 77.00 (76.70 to 77.70): VV012111.D (-2035) (-)

7.69

Time-->

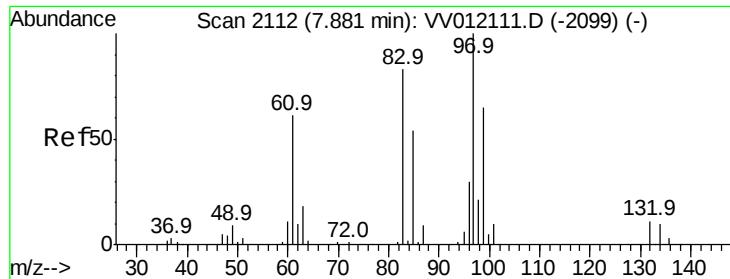


Abundance Ion 75.00 (74.70 to 75.70): VV012114.D (-1960) (-)

Ion 77.00 (76.70 to 77.70): VV012114.D (-1960) (-)

7.69

Time-->



#45

1,1,2-Trichloroethane

Concen: 2.451 ug/L

RT: 7.88 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VV012114.D

Acq: 06 Aug 2019 15:07

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion: 97 Resp: 3756

Ion Ratio Lower Upper

97 100

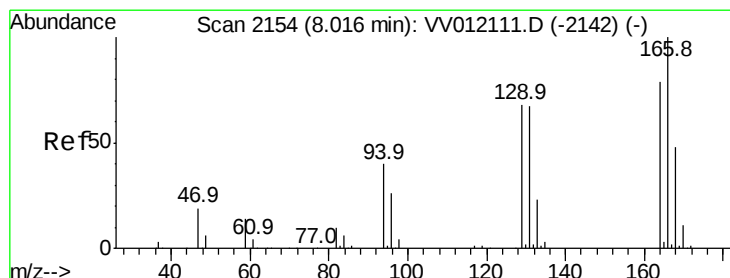
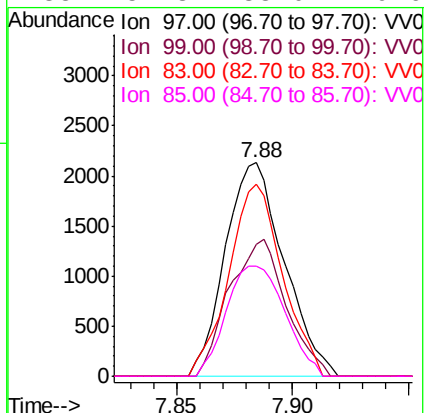
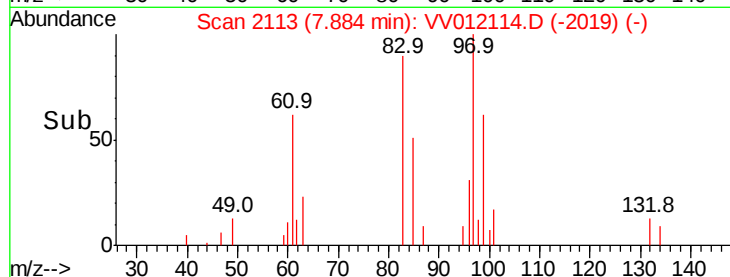
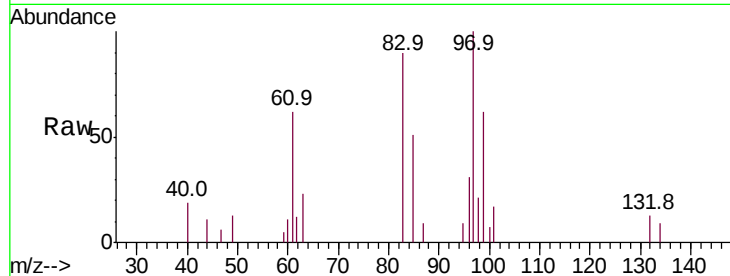
99 61.9 47.2 87.6

83 89.8 58.0 107.6

85 51.3 38.0 70.6

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#46

Tetrachloroethene

Concen: 2.345 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. -0.00 min

Lab File: VV012114.D

Acq: 06 Aug 2019 15:07

Tgt Ion: 164 Resp: 3540

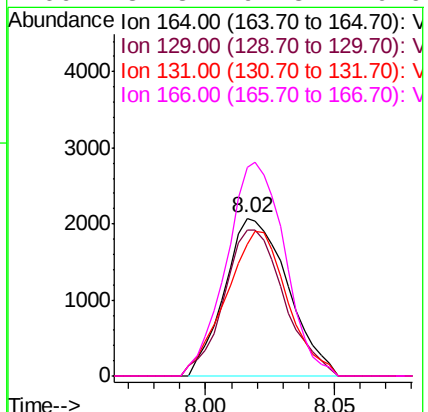
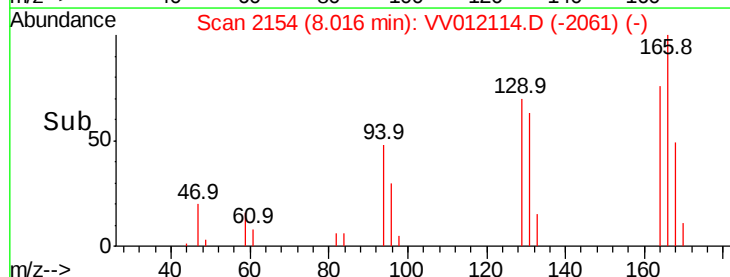
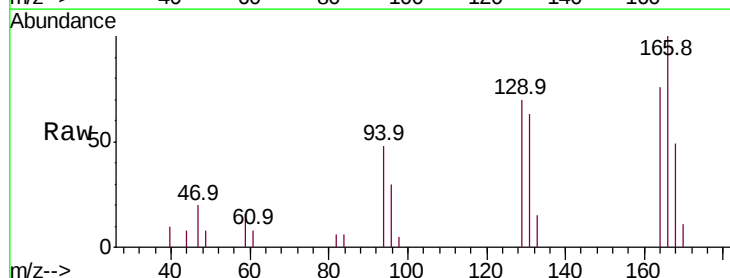
Ion Ratio Lower Upper

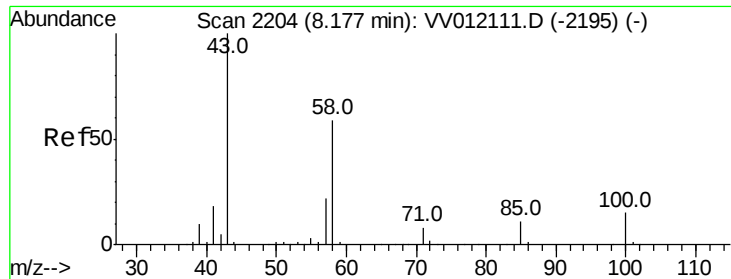
164 100

129 92.3 64.3 119.5

131 83.5 60.1 111.7

166 132.3 91.8 170.6





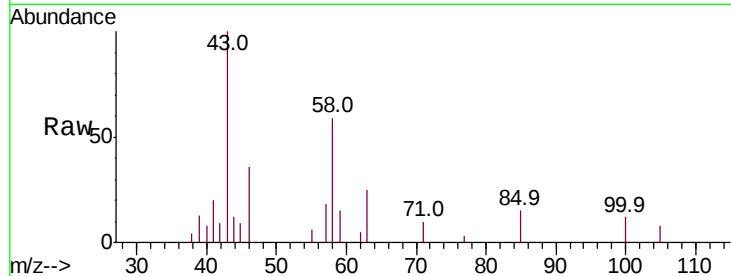
#48
2-Hexanone
Concen: 4.775 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV012114.D
Acq: 06 Aug 2019 15:07

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tot Ion	Ratio	Lower	Upper
43	100		
58	73.7	45.6	68.4#
57	20.6	17.0	25.6
100	13.2	11.5	17.3

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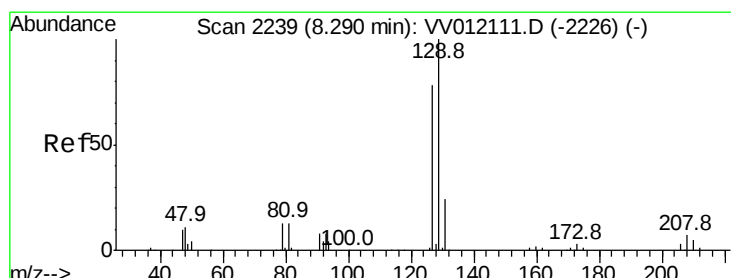
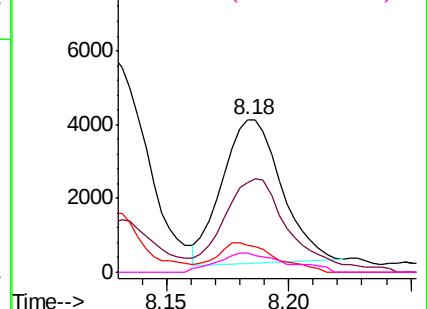
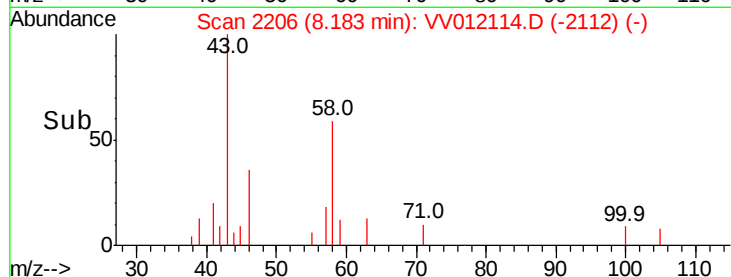
Abundance

Ion 43.00 (42.70 to 43.70): VV012111.D (-2195) (-)

Ion 58.00 (57.70 to 58.70): VV012111.D (-2195) (-)

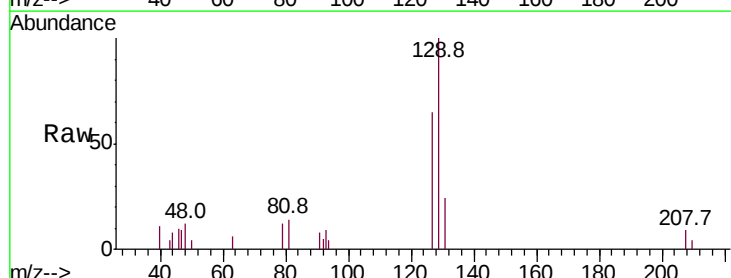
Ion 57.00 (56.70 to 57.70): VV012111.D (-2195) (-)

Ion 100.00 (99.70 to 100.70): VV012111.D (-2195) (-)



#49
Dibromochloromethane
Concen: 2.513 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV012114.D
Acq: 06 Aug 2019 15:07

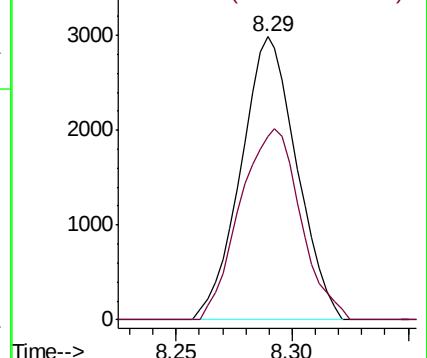
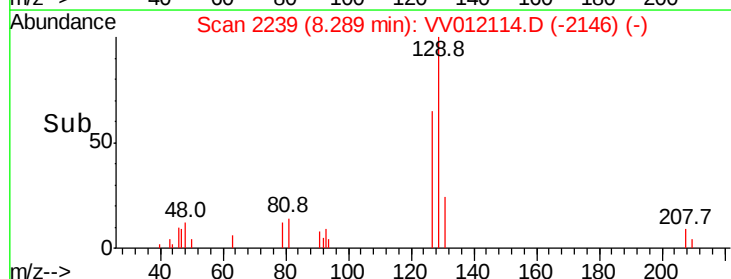
Tgt Ion	Ratio	Lower	Upper
129	100		
127	65.0	53.8	100.0

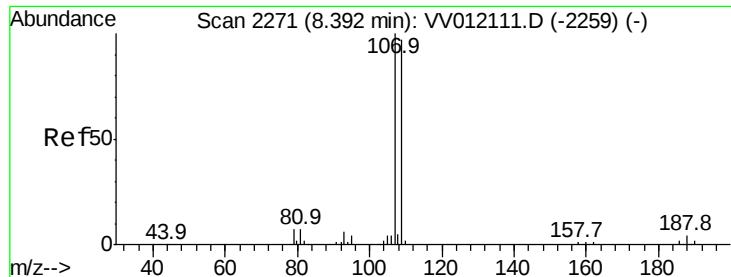


Abundance

Ion 129.00 (128.70 to 129.70): VV012114.D (-2146) (-)

Ion 127.00 (126.70 to 127.70): VV012114.D (-2146) (-)





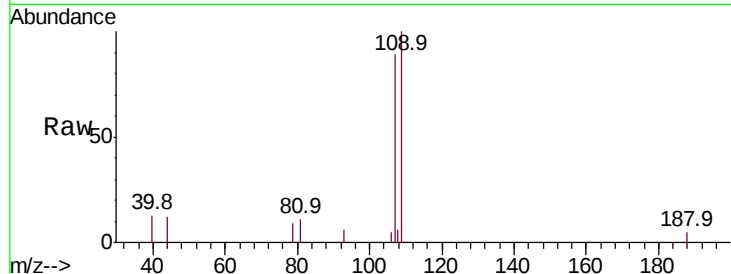
#50
 1,2-Dibromoethane
 Concen: 2.261 ug/L
 RT: 8.40 min Scan# 2272
 Delta R.T. -0.00 min
 Lab File: VV012114.D
 Acq: 06 Aug 2019 15:07

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Resp	Lower	Upper
107	100			
109	111.9	67.0	124.4	
188	5.8	3.9	5.9	

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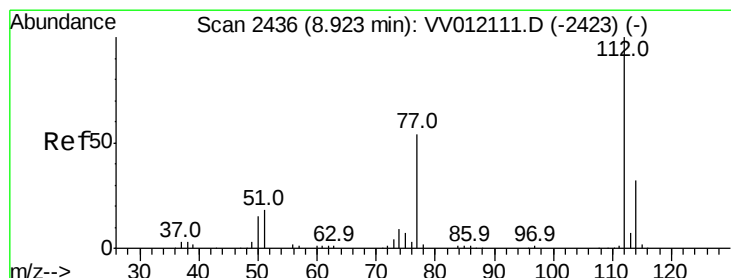
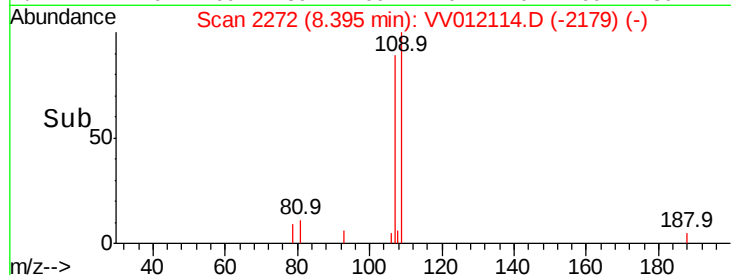
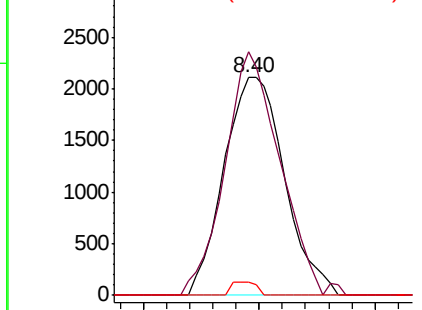


Abundance

Ion 107.00 (106.70 to 107.70): V

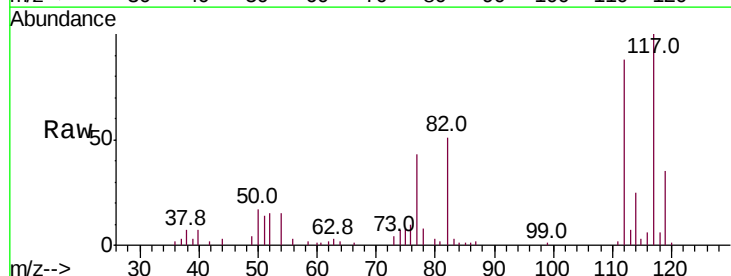
Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51
 Chlorobenzene
 Concen: 2.522 ug/L
 RT: 8.92 min Scan# 2436
 Delta R.T. -0.00 min
 Lab File: VV012114.D
 Acq: 06 Aug 2019 15:07

Tgt Ion	Ratio	Resp	Lower	Upper
112	100			
114	28.4	22.8	42.4	
77	49.1	44.7	67.1	

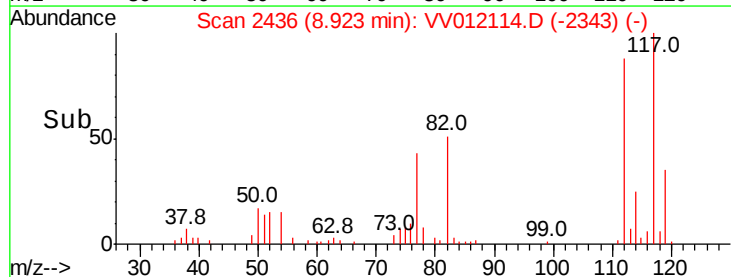
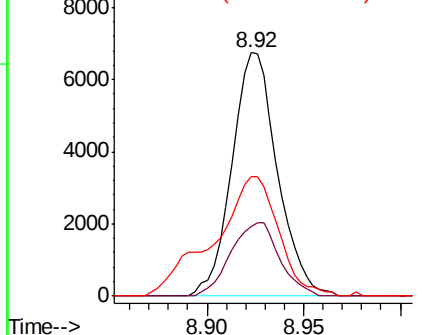


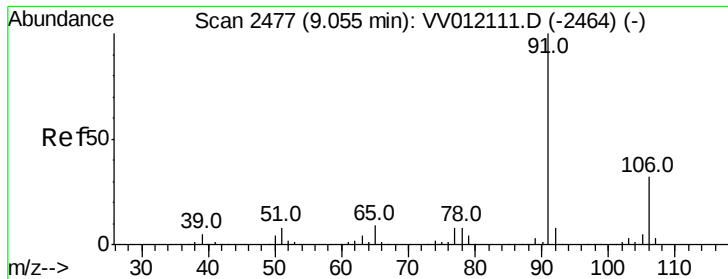
Abundance

Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VV0





#52

Ethylbenzene

Concen: 2.332 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV012114.D

Acq: 06 Aug 2019 15:07

Instrument :

MSVOA_V

ClientSampled :

MDL01

Tot Ion: 91 Resp: 16948

Ion Ratio Lower Upper

91 100

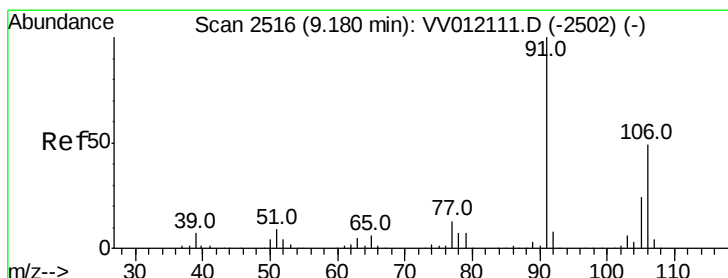
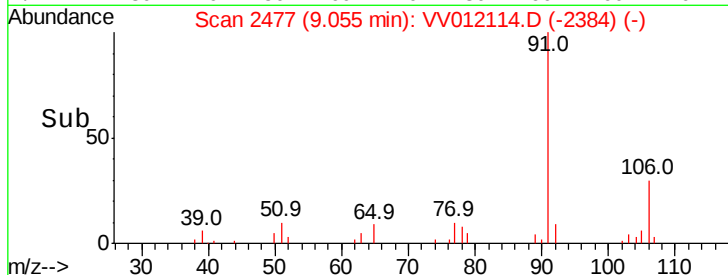
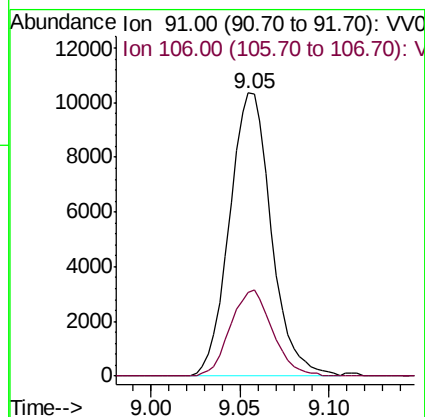
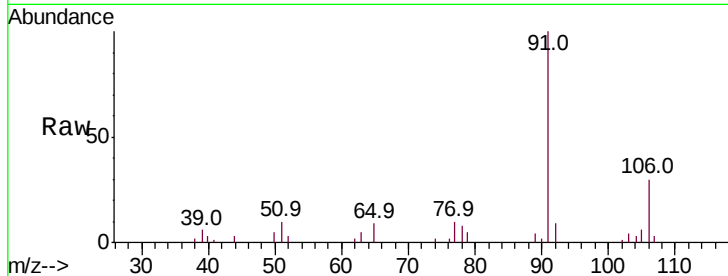
106 29.5 22.3 41.5

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#53

m,p-Xylene

Concen: 2.361 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV012114.D

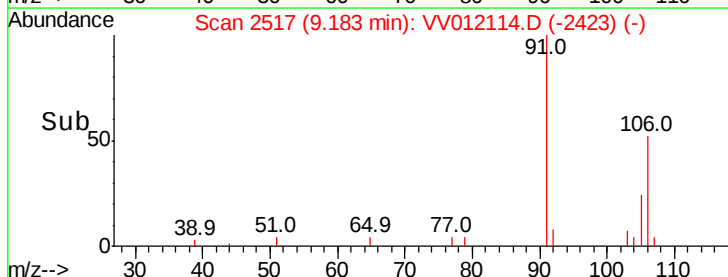
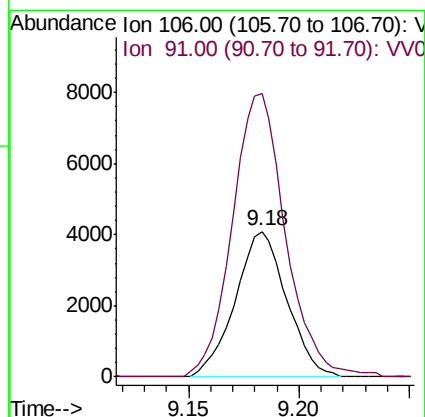
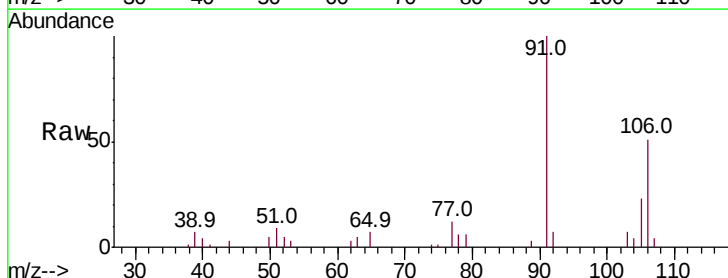
Acq: 06 Aug 2019 15:07

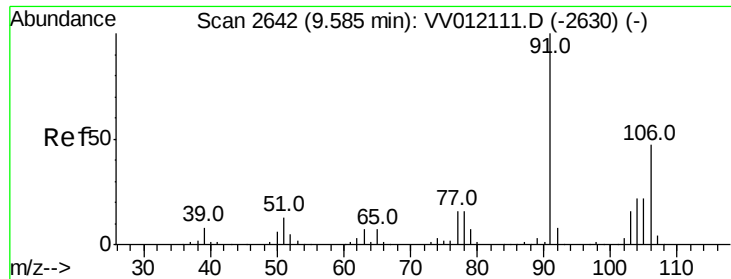
Tgt Ion: 106 Resp: 6620

Ion Ratio Lower Upper

106 100

91 194.3 146.7 272.5





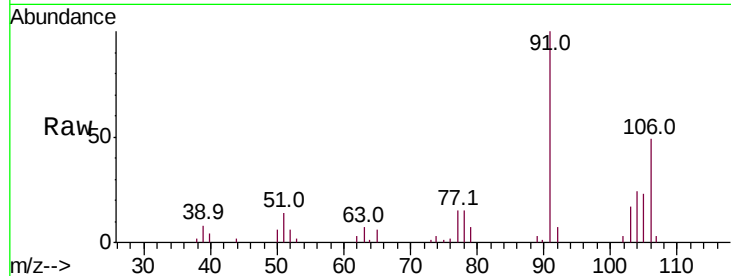
#54
o-Xylene
Concen: 2.328 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. 0.00 min
Lab File: VV012114.D
Acq: 06 Aug 2019 15:07

Instrument :
MSVOA_V
ClientSampled :
MDL01

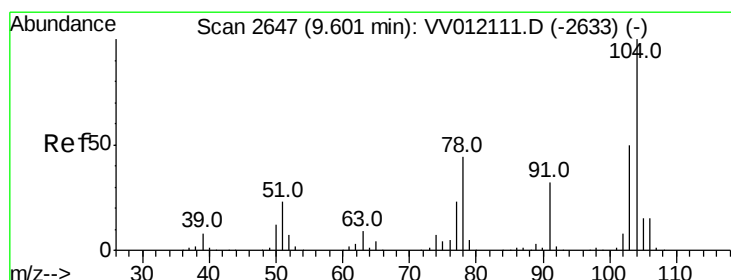
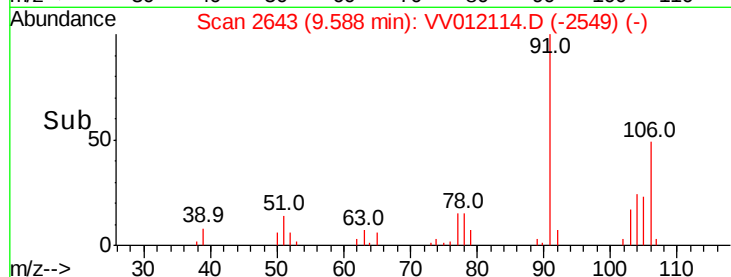
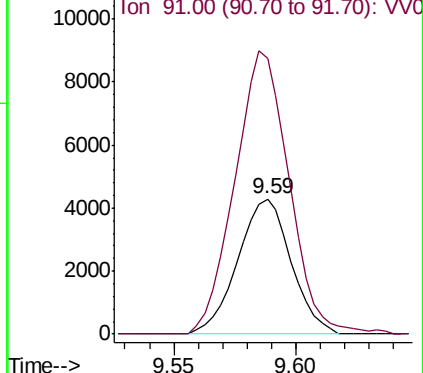
Tot Ion:106 Resp: 6478
Ion Ratio Lower Upper
106 100
91 204.7 150.4 279.2

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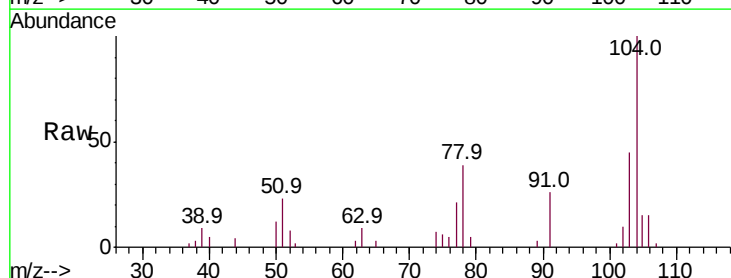


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VV0

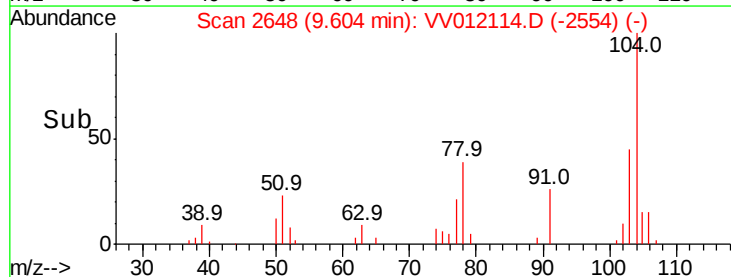
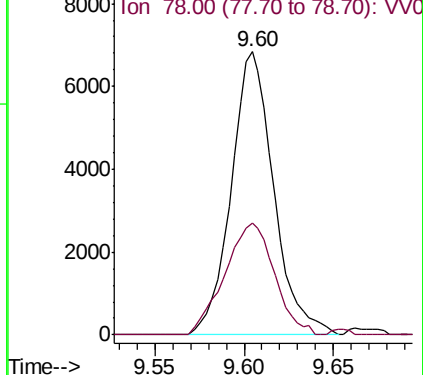


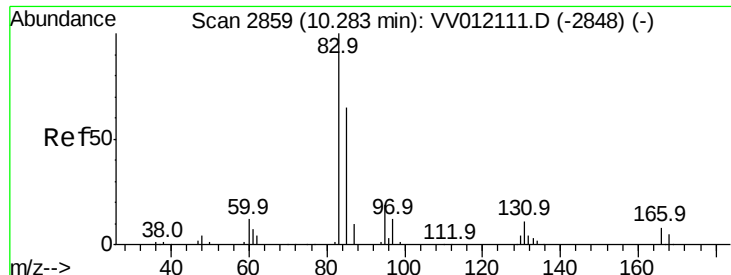
#55
Styrene
Concen: 2.416 ug/L
RT: 9.60 min Scan# 2648
Delta R.T. 0.00 min
Lab File: VV012114.D
Acq: 06 Aug 2019 15:07

Tgt Ion:104 Resp: 11325
Ion Ratio Lower Upper
104 100
78 39.5 32.0 59.4



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VV0





#57

1,1,2,2-Tetrachloroethane

Concen: 2.695 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV012114.D

Acq: 06 Aug 2019 15:07

Instrument :

MSVOA_V

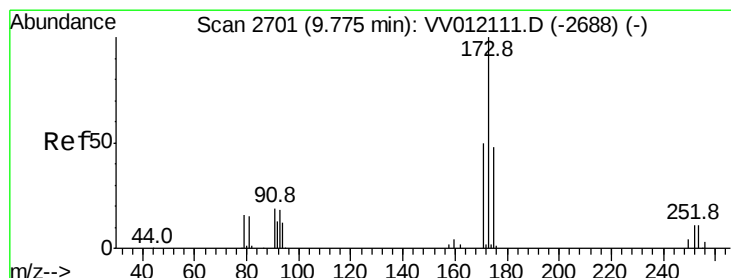
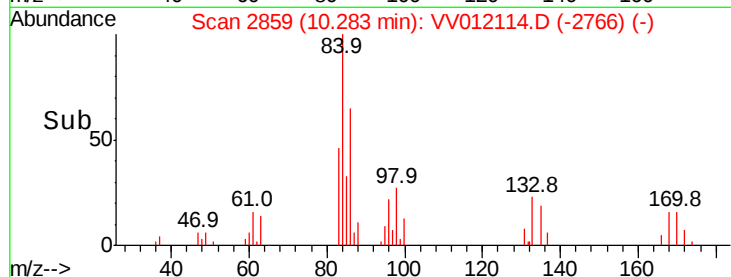
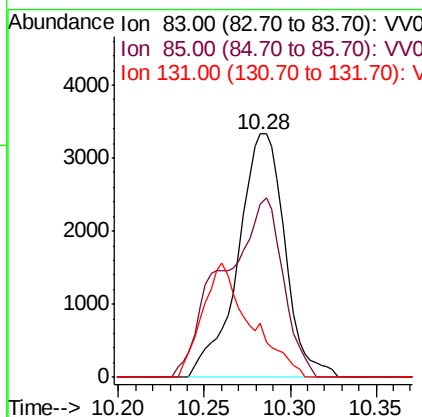
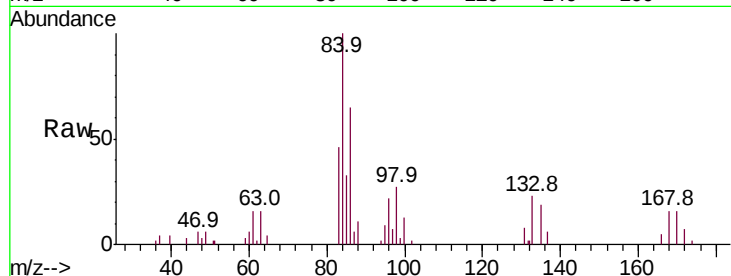
ClientSampled :

MDL01

Tot Ion:	83	Resp:	6351
Ion	Ratio	Lower	Upper
83	100		
85	70.9	44.6	82.8
131	22.2	9.3	13.9#

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#59

Bromoform

Concen: 2.413 ug/L

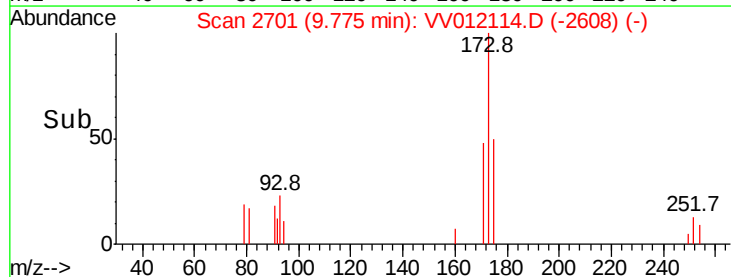
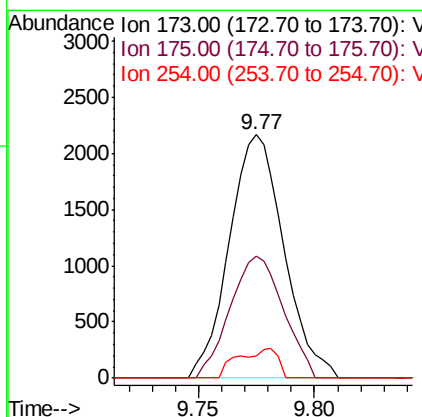
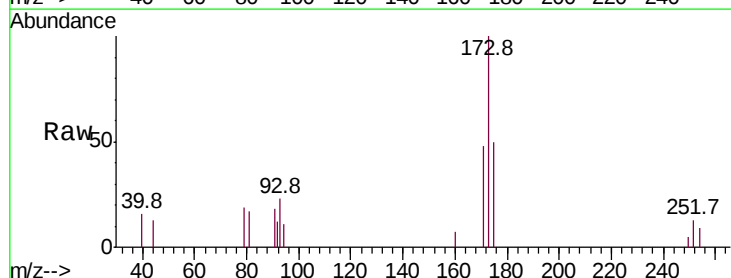
RT: 9.77 min Scan# 2701

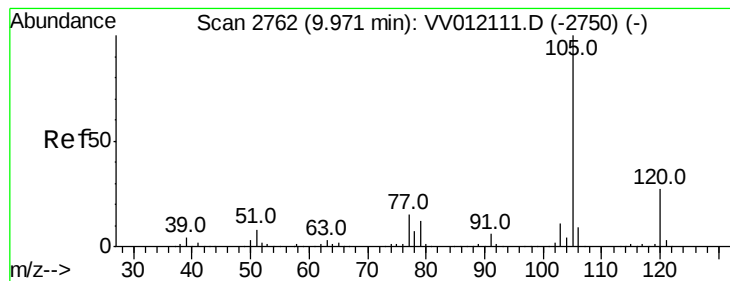
Delta R.T. -0.00 min

Lab File: VV012114.D

Acq: 06 Aug 2019 15:07

Tgt Ion:	173	Resp:	3542
Ion	Ratio	Lower	Upper
173	100		
175	48.9	38.3	57.5
254	5.0	8.9	13.3#





#60

Isopropylbenzene

Concen: 2.512 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV012114.D

Acq: 06 Aug 2019 15:07

Instrument :

MSVOA_V

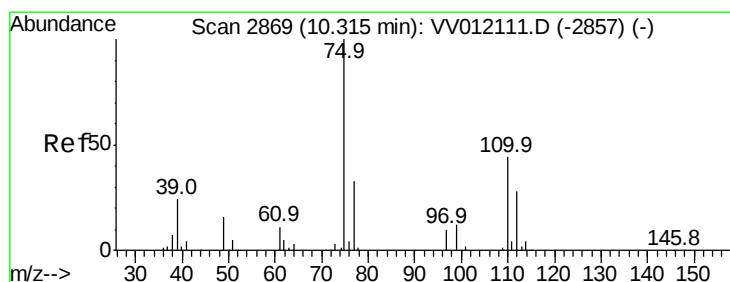
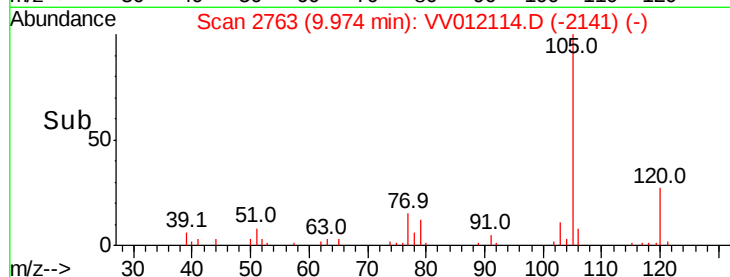
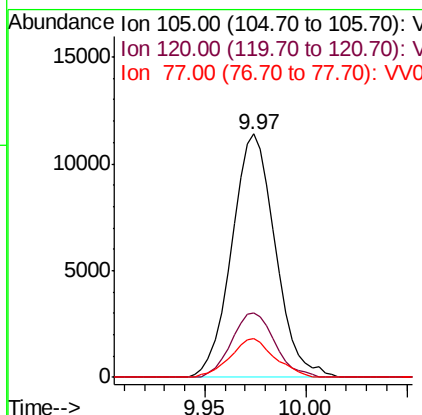
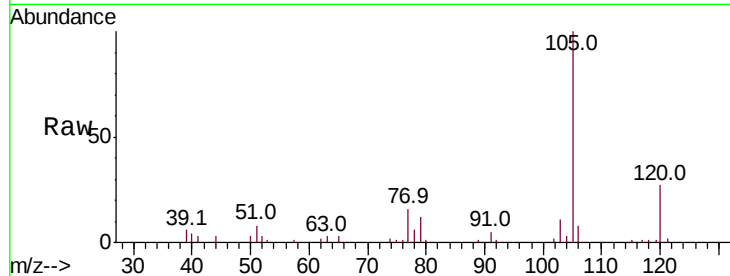
ClientSampleId :

MDL01

Tot Ion:	105	Resp:	17203
Ion Ratio	Lower	Upper	
105	100		
120	26.3	21.4	32.0
77	16.4	11.6	17.4

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#61

1,2,3-Trichloropropane

Concen: 2.657 ug/L

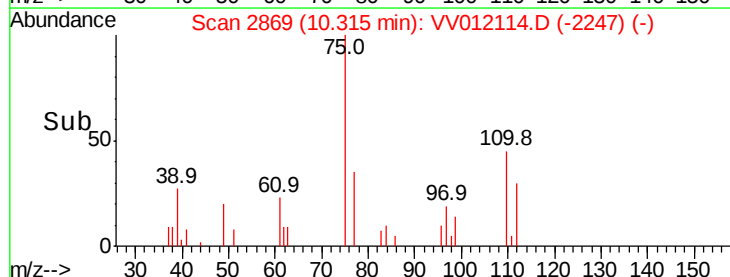
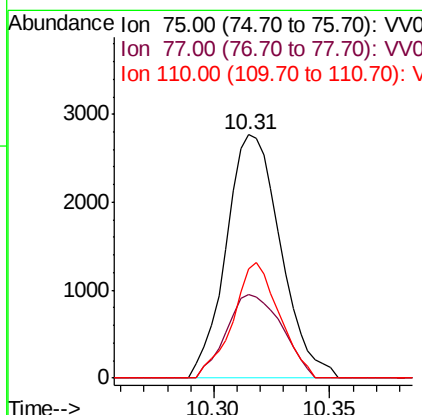
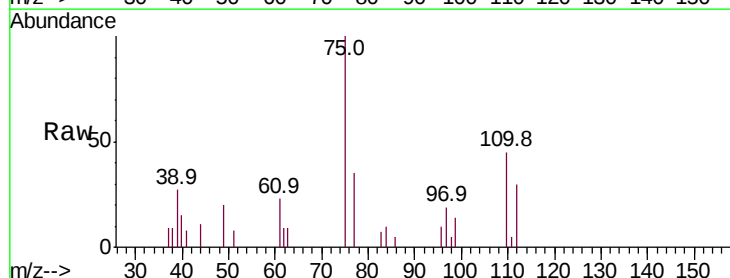
RT: 10.31 min Scan# 2869

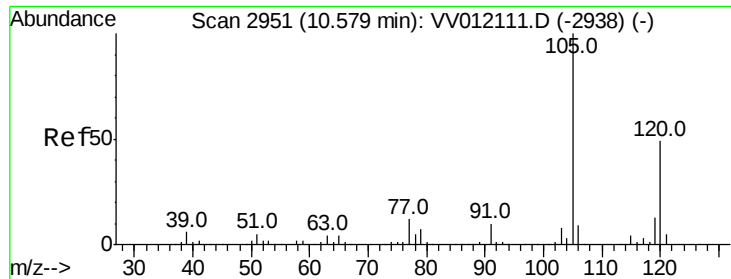
Delta R.T. -0.00 min

Lab File: VV012114.D

Acq: 06 Aug 2019 15:07

Tgt Ion:	75	Resp:	4515
Ion Ratio	Lower	Upper	
75	100		
77	34.9	25.7	38.5
110	40.3	34.2	51.4





#62

1,3,5-Trimethylbenzene

Concen: 2.474 ug/L

RT: 10.58 min Scan# 2952

Delta R.T. -0.00 min

Lab File: VV012114.D

Acq: 06 Aug 2019 15:07

Instrument :

MSVOA_V

ClientSampled :

MDL01

Tot Ion:105 Resp: 14651

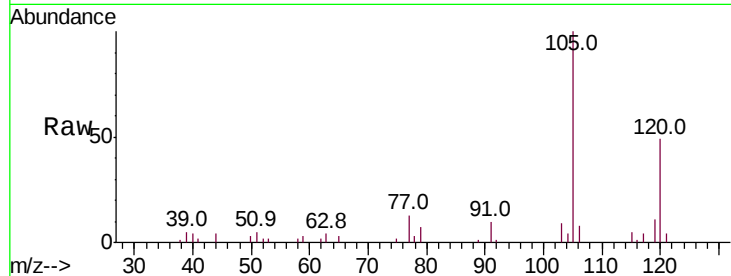
Ion Ratio Lower Upper

105 100

120 48.2 39.2 58.8

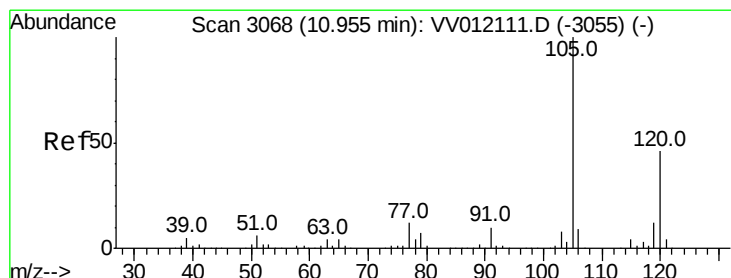
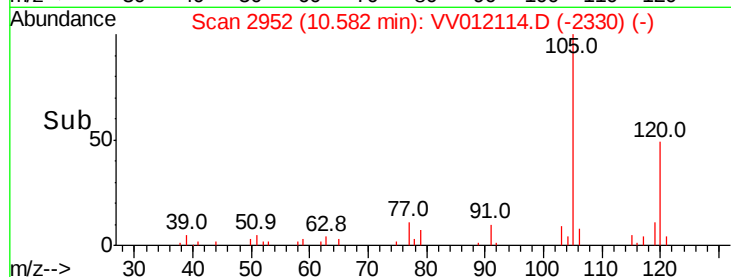
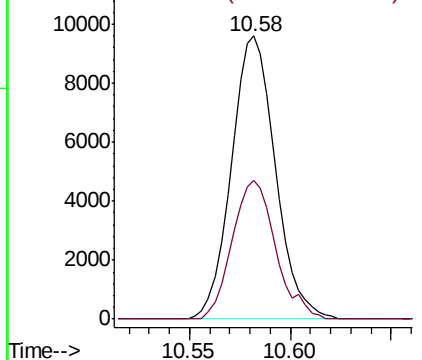
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 2.325 ug/L

RT: 10.96 min Scan# 3069

Delta R.T. 0.00 min

Lab File: VV012114.D

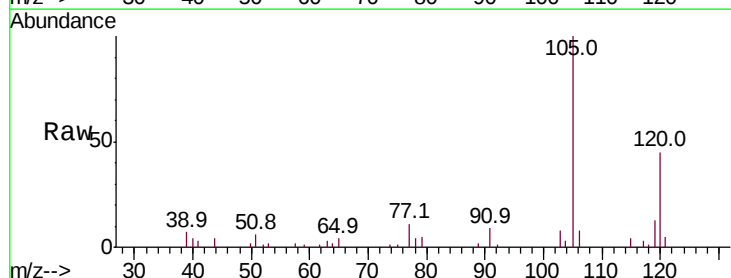
Acq: 06 Aug 2019 15:07

Tgt Ion:105 Resp: 13590

Ion Ratio Lower Upper

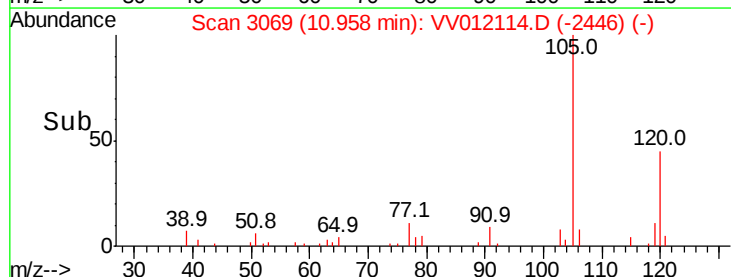
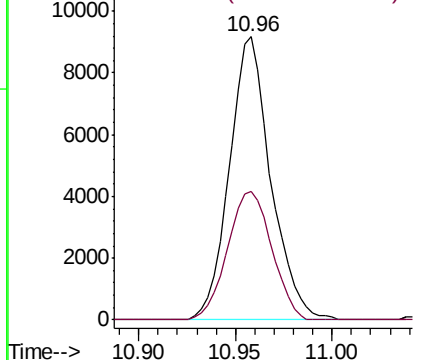
105 100

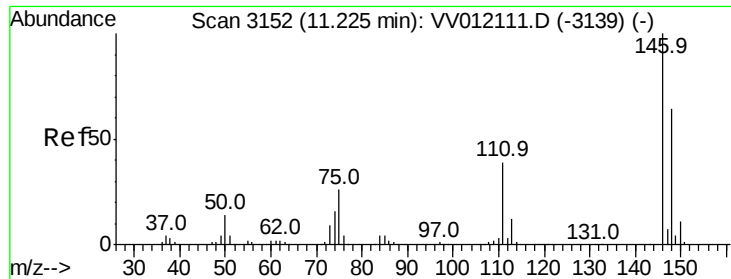
120 48.6 36.7 55.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





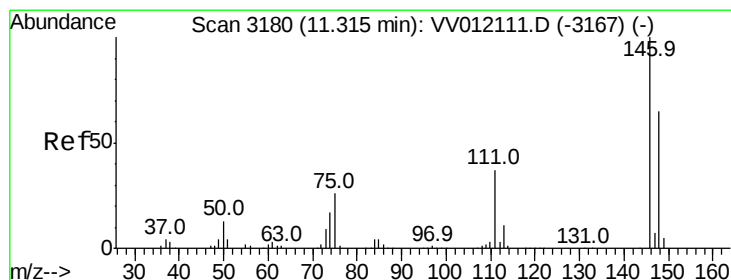
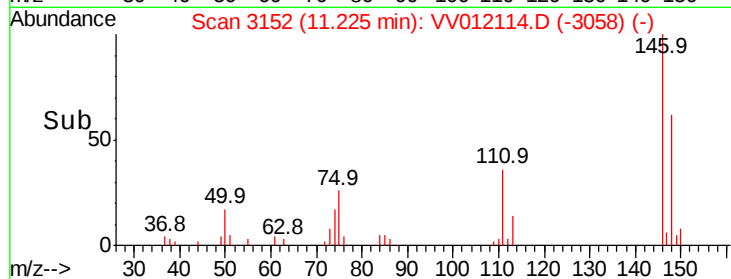
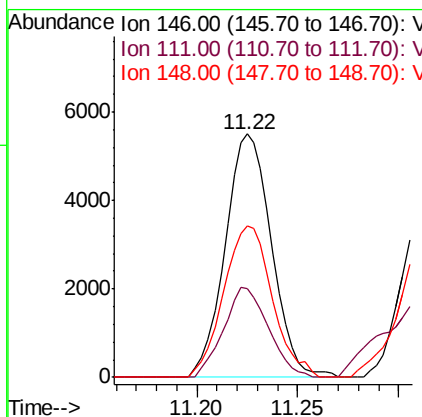
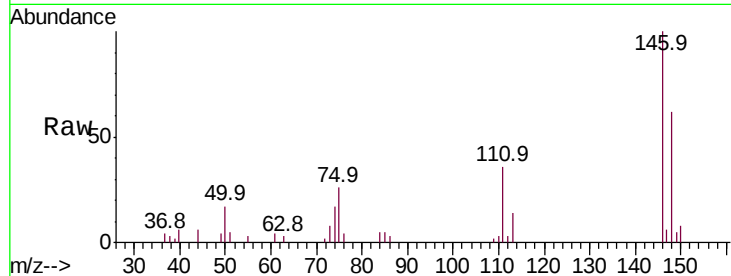
#64
 1,3-Dichlorobenzene
 Concen: 2.549 ug/L
 RT: 11.22 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV012114.D
 Acq: 06 Aug 2019 15:07

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.3	26.8	49.8
148	62.4	44.6	82.8

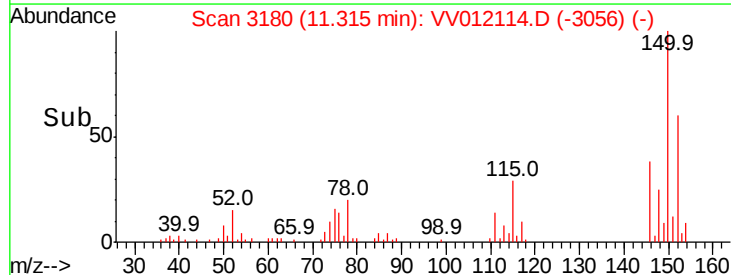
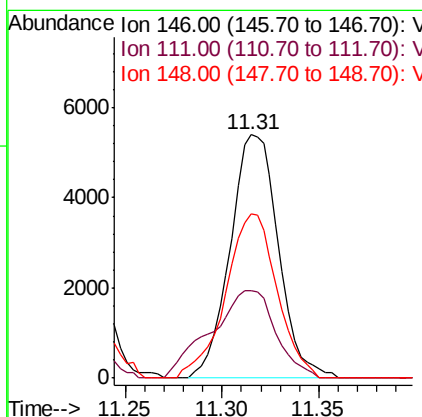
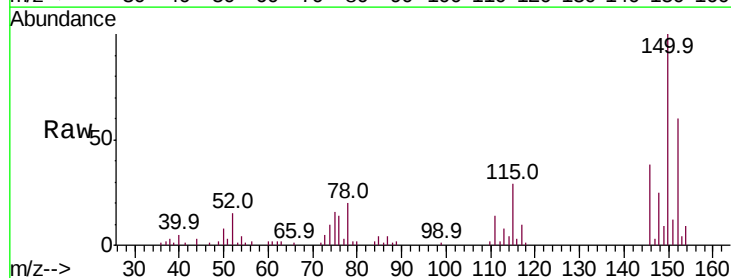
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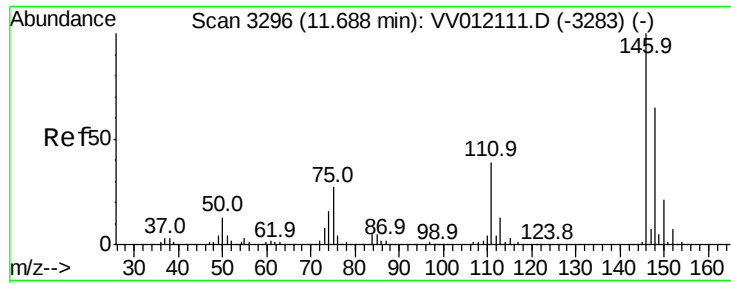
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#65
 1,4-Dichlorobenzene
 Concen: 2.678 ug/L
 RT: 11.31 min Scan# 3180
 Delta R.T. -0.00 min
 Lab File: VV012114.D
 Acq: 06 Aug 2019 15:07

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.0	25.8	47.8
148	67.3	45.2	84.0





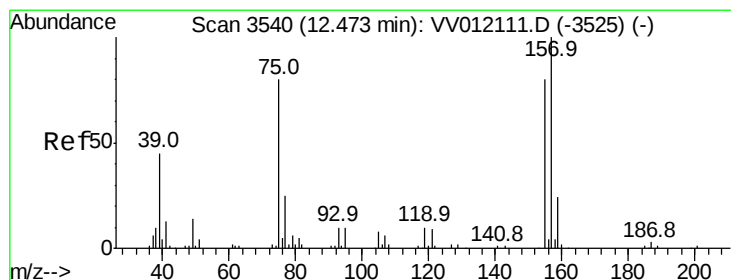
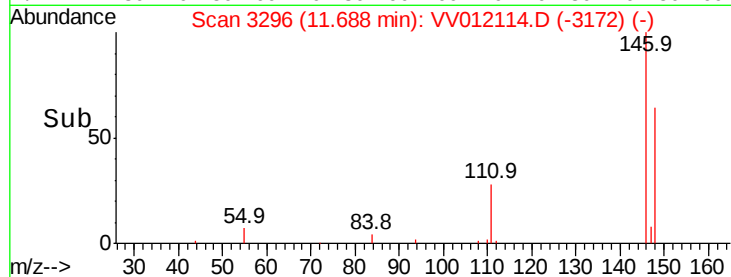
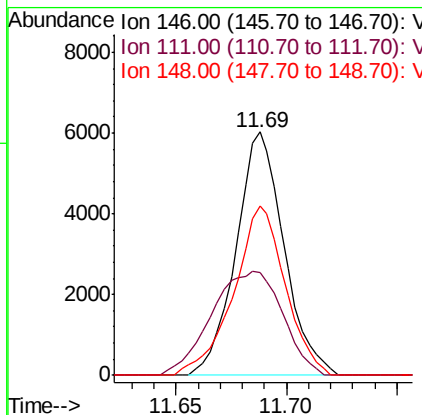
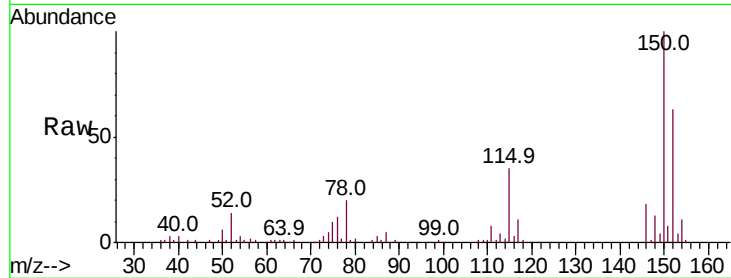
#67
 1,2-Dichlorobenzene
 Concen: 2.591 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. -0.00 min
 Lab File: VV012114.D
 Acq: 06 Aug 2019 15:07

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.3	32.2	48.2
148	69.8	53.2	79.8

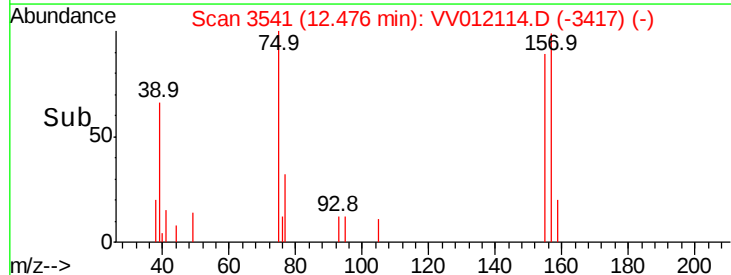
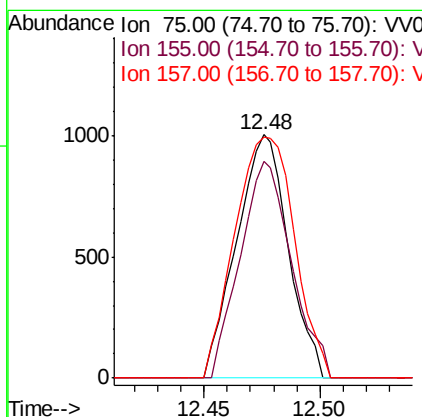
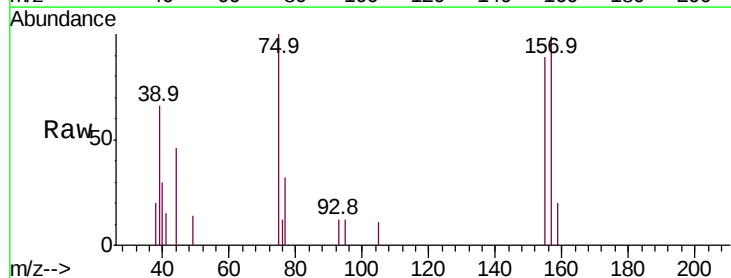
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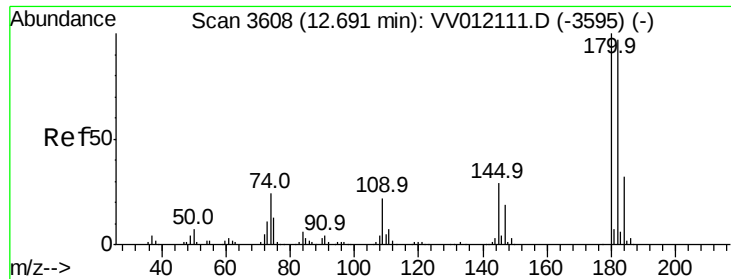
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.775 ug/L
 RT: 12.48 min Scan# 3541
 Delta R.T. -0.00 min
 Lab File: VV012114.D
 Acq: 06 Aug 2019 15:07

Tgt Ion	Ratio	Lower	Upper
75	100		
155	89.2	81.2	121.8
157	98.9	102.3	153.5#





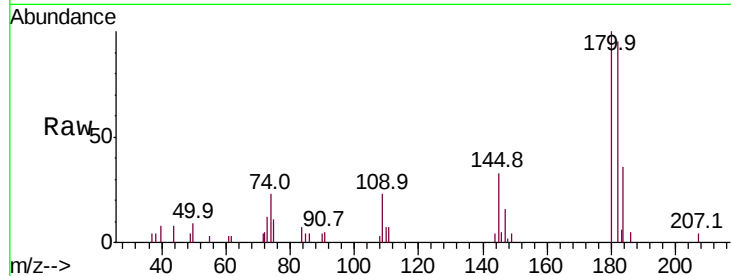
#69
 1,3,5-Trichlorobenzene
 Concen: 2.368 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. -0.00 min
 Lab File: VV012114.D
 Acq: 06 Aug 2019 15:07

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	6635		
182	100.3	76.5	114.7	
184	32.5	24.6	36.8	
145	32.7	22.5	33.7	

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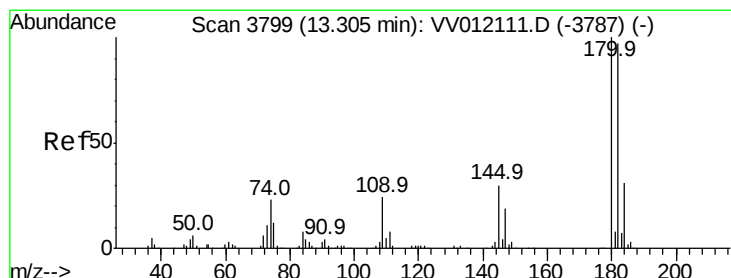
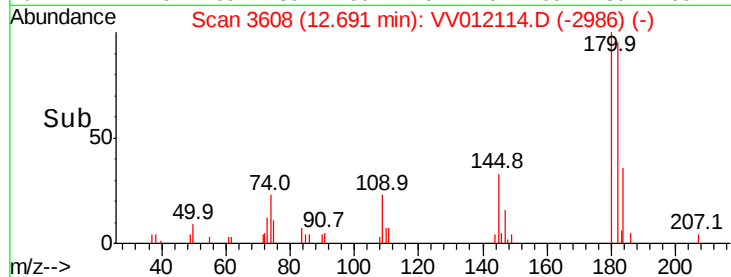
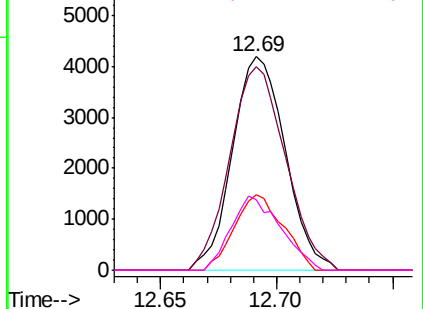
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#70
 1,2,4-trichlorobenzene
 Concen: 2.143 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.01 min
 Lab File: VV012114.D
 Acq: 06 Aug 2019 15:07

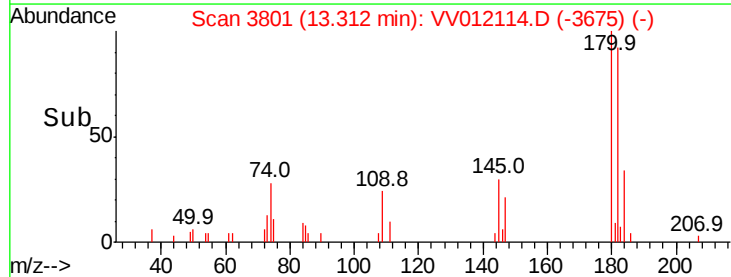
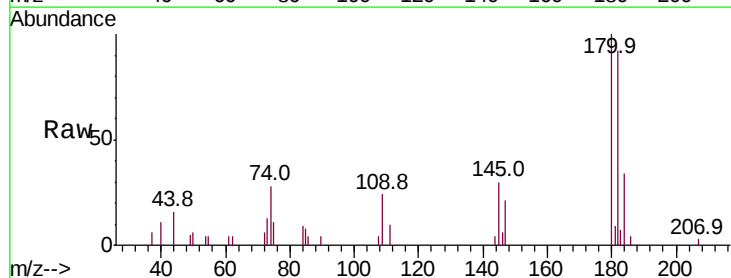
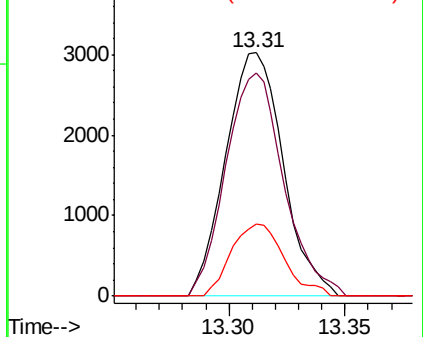
Tgt Ion	Ratio	Resp	Lower	Upper
180	100	5205		
182	92.2	76.5	114.7	
145	27.1	23.3	34.9	

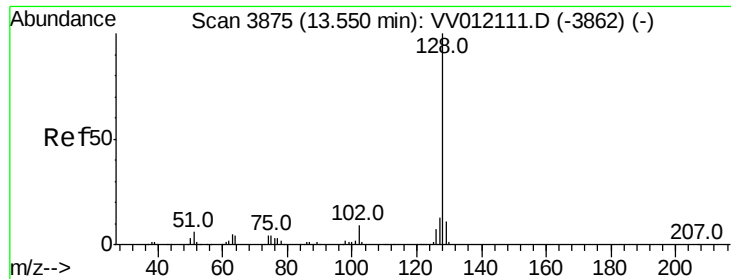
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





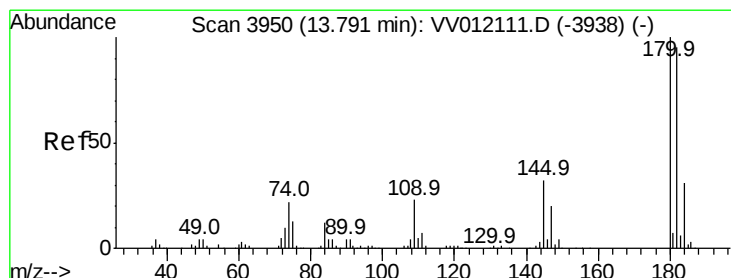
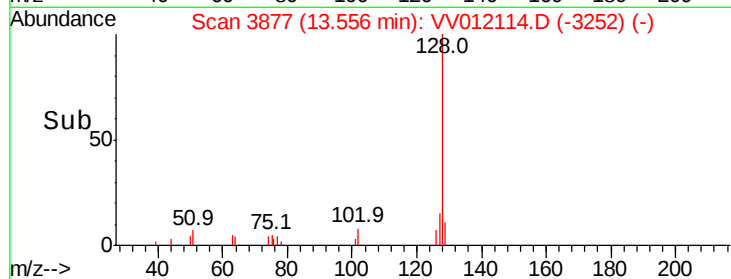
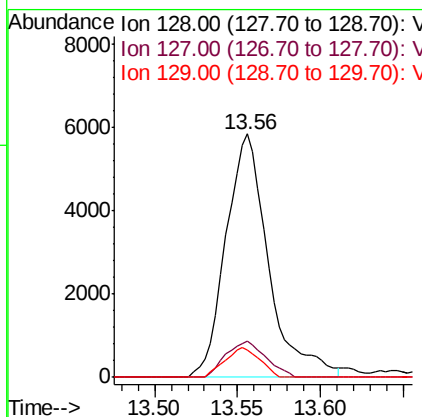
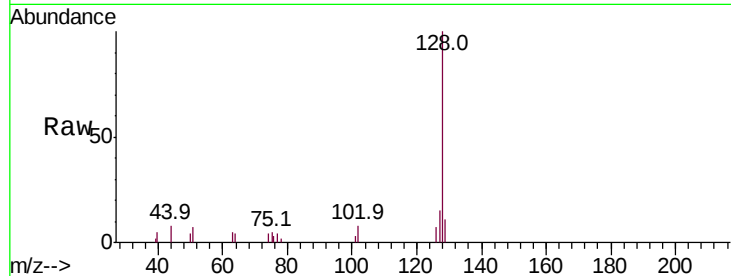
#71
Naphthalene
Concen: 1.702 ug/L
RT: 13.56 min Scan# 3877
Delta R.T. 0.01 min
Lab File: VV012114.D
Acq: 06 Aug 2019 15:07

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tot Ion	Ratio	Lower	Upper
128	100		
127	14.0	10.6	15.8
129	9.9	8.6	12.8

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#72
1,2,3-Trichlorobenzene
Concen: 2.049 ug/L
RT: 13.79 min Scan# 3951
Delta R.T. 0.00 min
Lab File: VV012114.D
Acq: 06 Aug 2019 15:07

Tgt Ion	Ratio	Lower	Upper
180	100		
182	91.5	77.2	115.8
145	31.1	24.6	36.8

