

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV073019\
 Data File : VV012069.D
 Acq On : 30 Jul 2019 11:39
 Operator : SY/MD
 Sample : MDL03
 Misc : 25ML/MSVOA V/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Manual Integrations
 APPROVED

MMdadoda
 8/1/2019 3:18:17 PM

Quant Time: Jul 31 09:32:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVTR072919WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Jul 31 09:22:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	123016	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	115785	5.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	59050	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	32723	4.70	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	94.00%
7) Chloroethane-d5	1.58	69	25100	5.14	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	102.80%
11) 1,1-Dichloroethene-d2	2.13	63	51225	4.06	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	81.20%
20) 2-Butanone-d5	3.96	46	85405	54.01	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	108.02%
24) Chloroform-d	4.40	84	81460	5.42	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	108.40%
26) 1,2-Dichloroethane-d4	5.08	65	46028	5.66	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	113.20%
32) Benzene-d6	5.10	84	163703	5.61	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	112.20%
36) 1,2-Dichloropropane-d6	6.12	67	45699	5.60	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	112.00%
41) Toluene-d8	7.36	98	151857	5.36	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	107.20%
43) trans-1,3-Dichloropropene-	7.66	79	18936	5.31	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	106.20%
46) 2-Hexanone-d5	8.13	63	67865	53.81	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	107.62%
56) 1,1,2,2-Tetrachloroethane-	10.26	84	32483	5.31	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	106.20%
66) 1,2-Dichlorobenzene-d4	11.67	152	61762	5.87	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	117.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.14	85	3877	0.277	ug/L	93
3) Chloromethane	1.25	50	2085	0.260	ug/L	97
5) Vinyl chloride	1.32	62	2170	0.264	ug/L #	50
6) Bromomethane	1.54	94	1265	0.258	ug/L	86
8) Chloroethane	1.60	64	1229	0.275	ug/L	88
9) Trichlorofluoromethane	1.77	101	3963	0.282	ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	2191	0.359	ug/L #	80
12) 1,1-Dichloroethene	2.14	96	1925	0.341	ug/L #	1
13) Acetone	2.23	43	2409m	2.768	ug/L	
14) Carbon disulfide	2.32	76	4676	0.296	ug/L #	92
15) Methyl Acetate	2.46	43	465	0.260	ug/L #	60
16) Methylene chloride	2.54	84	2169	0.374	ug/L	88
17) Methyl tert-butyl Ether	2.81	73	4856	0.273	ug/L	95
18) trans-1,2-Dichloroethene	2.78	96	2163	0.266	ug/L	86
19) 1,1-Dichloroethane	3.23	63	4192	0.288	ug/L	94
21) 2-Butanone	4.06	43	5492m	3.199	ug/L	
22) cis-1,2-Dichloroethene	3.96	96	2389	0.276	ug/L	93

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 Response via : Initial Calibration

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

23) Bromochloromethane	4.30	128	933	0.245	ug/L	94
25) Chloroform	4.42	83	10482	0.574	ug/L	90
27) 1,2-Dichloroethane	5.19	62	3030	0.301	ug/L	97
29) 1,1,1-Trichloroethane	4.65	97	4081	0.285	ug/L	99
30) Cyclohexane	4.71	56	3158	0.258	ug/L	90
31) Carbon tetrachloride	4.87	117	3563	0.277	ug/L	98
33) Benzene	5.15	78	8697	0.277	ug/L	100
34) Trichloroethene	5.96	95	2637	0.294	ug/L	93
35) Methylcyclohexane	6.17	83	3591	0.256	ug/L #	81
37) 1,2-Dichloropropane	6.23	63	1913	0.263	ug/L #	86
38) Bromodichloromethane	6.56	83	2904	0.283	ug/L #	97
39) cis-1,3-Dichloropropene	7.07	75	2710	0.238	ug/L	98
40) 4-Methyl-2-pentanone	7.28	43	9968	2.429	ug/L #	87
42) Toluene	7.43	91	10146	0.290	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	2686m	0.291	ug/L	
45) 1,1,2-Trichloroethane	7.88	97	1495	0.269	ug/L	90
47) Tetrachloroethene	8.03	164	2545	0.325	ug/L #	46
48) 2-Hexanone	8.19	43	7745	2.670	ug/L #	91
49) Dibromochloromethane	8.29	129	1681	0.247	ug/L	89
50) 1,2-Dibromoethane	8.40	107	1340	0.258	ug/L #	99
51) Chlorobenzene	8.93	112	6310	0.270	ug/L	93
52) Ethylbenzene	9.05	91	10757	0.270	ug/L	96
53) m,p-xylene	9.18	106	4002	0.263	ug/L	91
54) o-xylene	9.59	106	3585	0.249	ug/L	91
55) Styrene	9.60	104	5451	0.225	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.29	83	1719	0.289	ug/L #	90
59) Bromoform	9.77	173	1081	0.303	ug/L #	92
60) Isopropylbenzene	9.97	105	9818	0.260	ug/L	98
61) 1,2,3-Trichloropropane	10.32	75	1478	0.343	ug/L	93
62) 1,3,5-Trimethylbenzene	10.58	105	7418	0.238	ug/L	94
63) 1,2,4-Trimethylbenzene	10.95	105	7913	0.256	ug/L	99
64) 1,3-Dichlorobenzene	11.22	146	5330	0.284	ug/L	97
65) 1,4-Dichlorobenzene	11.32	146	5494	0.287	ug/L #	89
67) 1,2-Dichlorobenzene	11.69	146	5111	0.299	ug/L #	86
68) 1,2-Dibromo-3-chloropropan	12.49	75	151	0.170	ug/L	92
69) 1,3,5-Trichlorobenzene	12.69	180	4089	0.263	ug/L #	95
70) 1,2,4-trichlorobenzene	13.31	180	3183	0.259	ug/L	90
71) Naphthalene	13.55	128	3958	0.232	ug/L #	89
72) 1,2,3-Trichlorobenzene	13.79	180	2807	0.257	ug/L	99

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

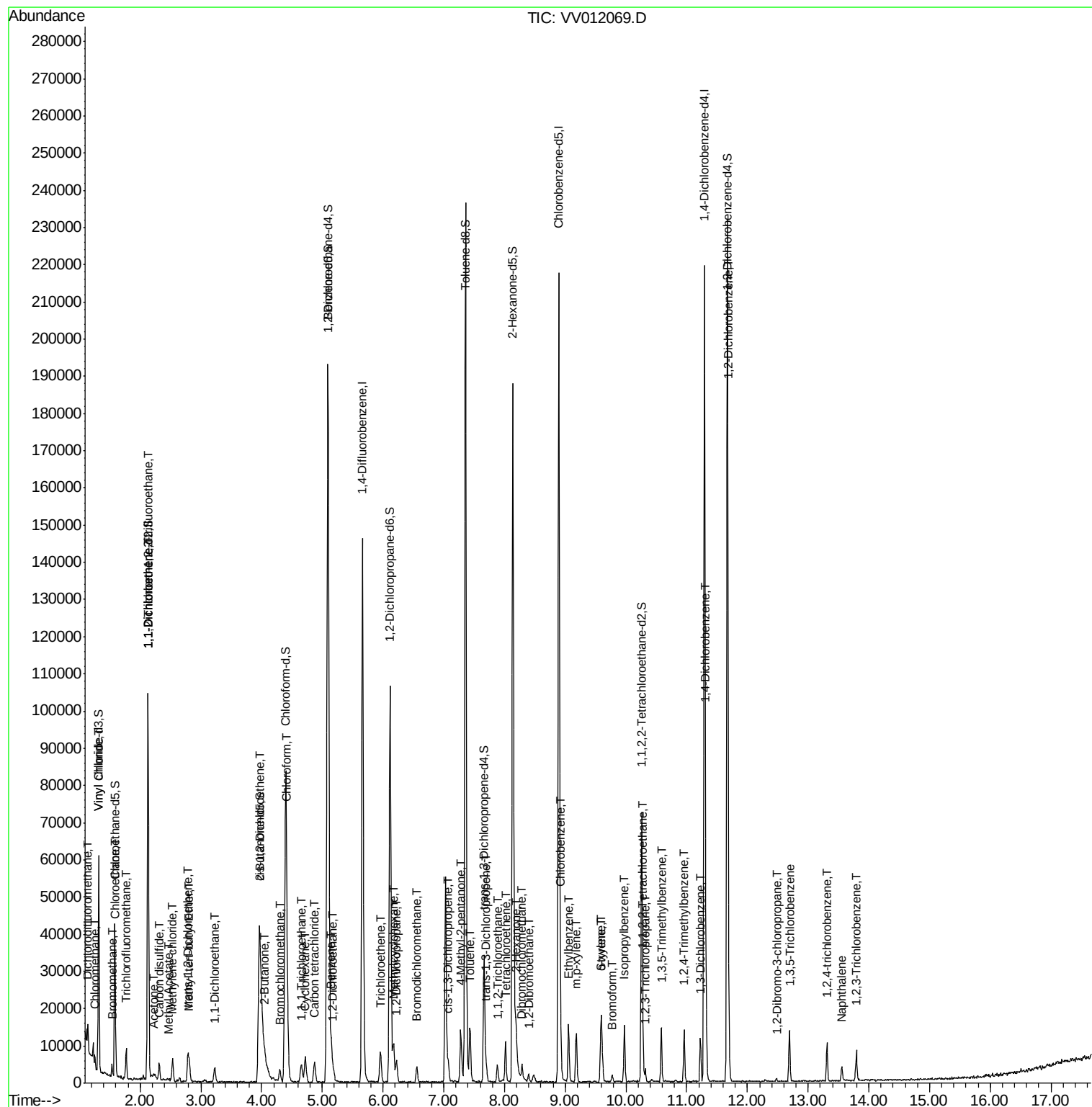
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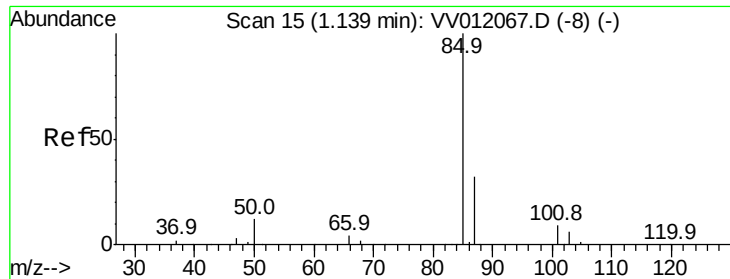
Instrument :
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#2

Dichlorodifluoromethane

Concen: 0.277 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV012069.D

Acq: 30 Jul 2019 11:39

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tot Ion: 85 Resp: 3877

Ion Ratio Lower Upper

85 100

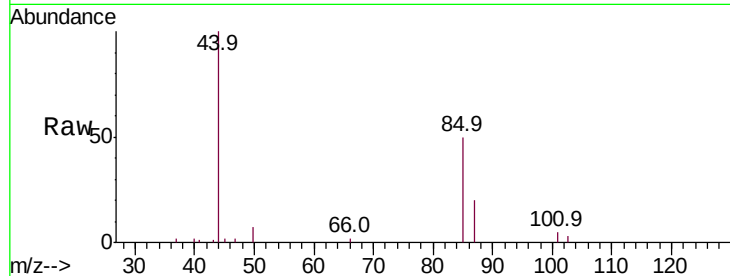
87 36.4 25.9 38.9

Manual Integrations

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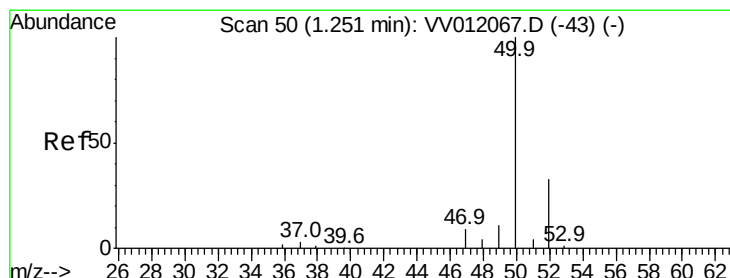
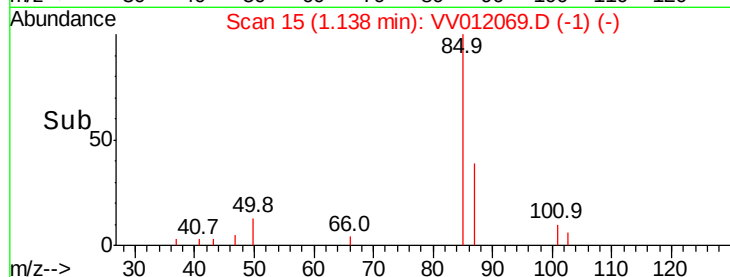
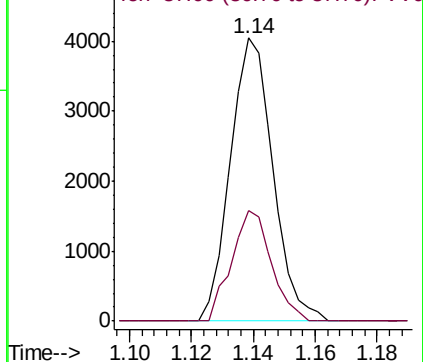
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Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 0.260 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV012069.D

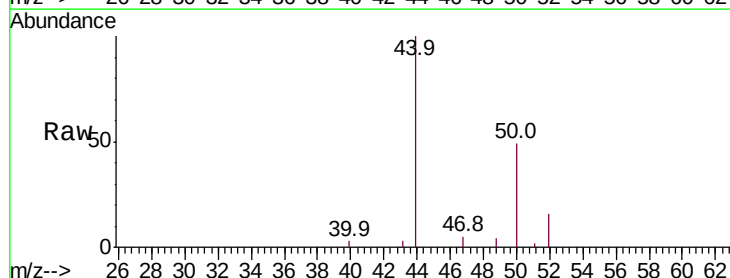
Acq: 30 Jul 2019 11:39

Tgt Ion: 50 Resp: 2085

Ion Ratio Lower Upper

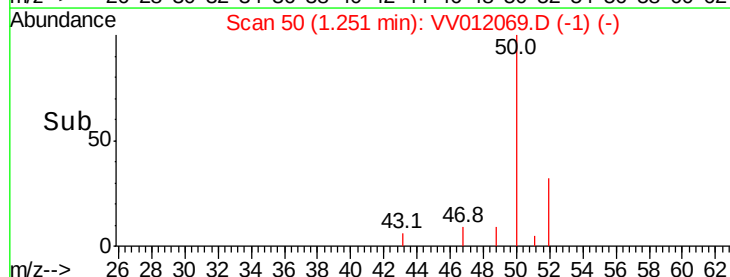
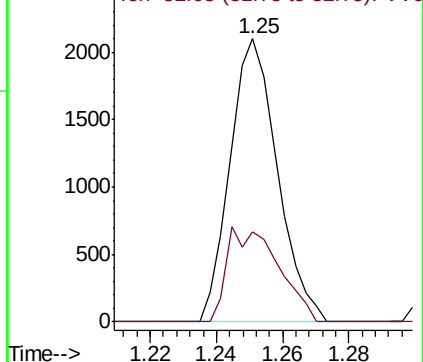
50 100

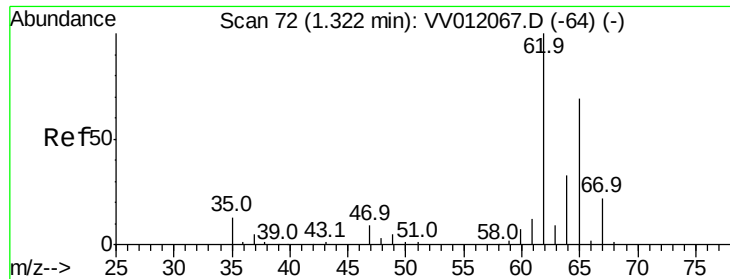
52 31.8 23.4 43.4



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0





#5

Vinyl chloride

Concen: 0.264 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV012069.D

Acq: 30 Jul 2019 11:39

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tot Ion: 62 Resp: 2170

Ion Ratio Lower Upper

62 100

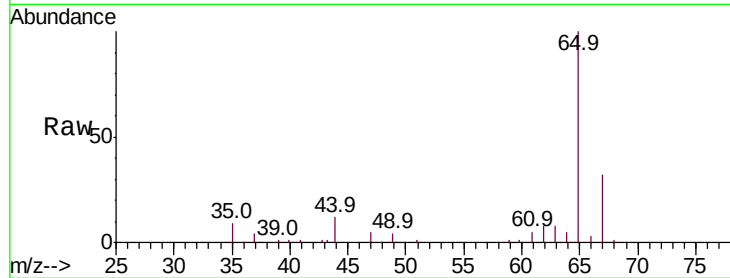
64 59.0 22.0 41.0#

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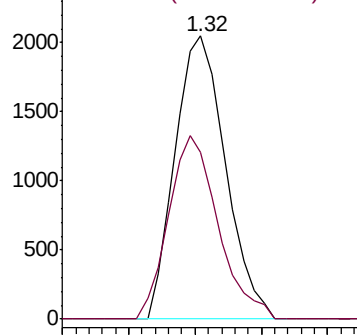
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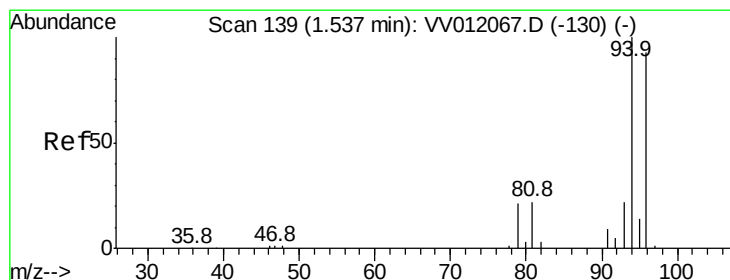
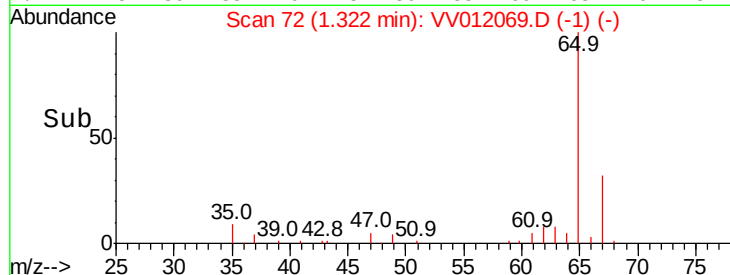


Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



Time--> 1.28 1.30 1.32 1.34 1.36



#6

Bromomethane

Concen: 0.258 ug/L

RT: 1.54 min Scan# 139

Delta R.T. -0.00 min

Lab File: VV012069.D

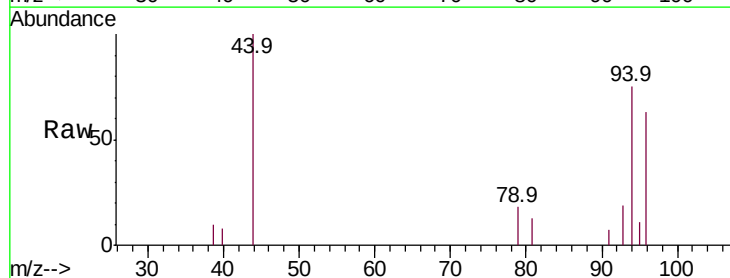
Acq: 30 Jul 2019 11:39

Tgt Ion: 94 Resp: 1265

Ion Ratio Lower Upper

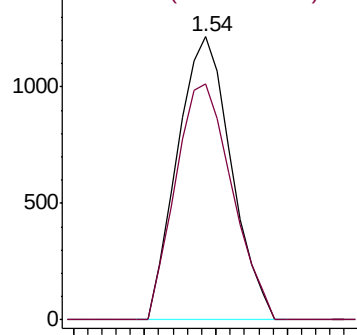
94 100

96 83.4 67.8 125.8

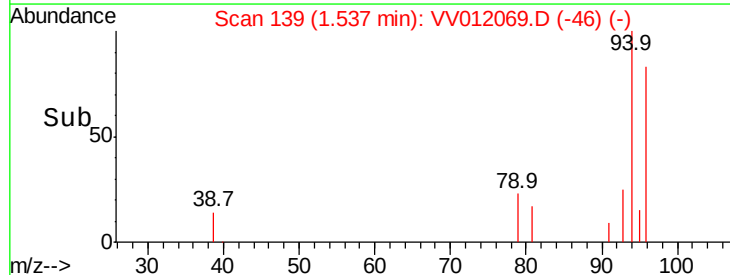


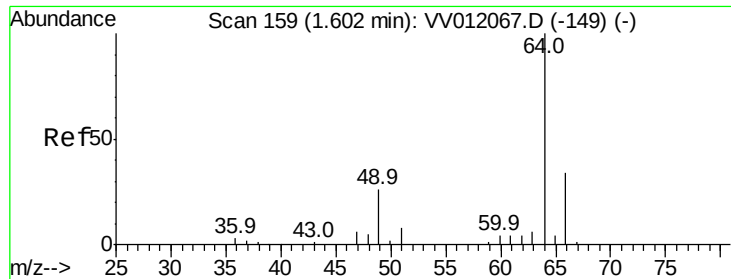
Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0



Time--> 1.50 1.52 1.54 1.56





#8

Chloroethane

Concen: 0.275 ug/L

RT: 1.60 min Scan# 158

Delta R.T. -0.00 min

Lab File: VV012069.D

Acq: 30 Jul 2019 11:39

Instrument :

MSVOA_V

ClientSampled :

MDL03

Tot Ion: 64 Resp: 1229

Ion Ratio Lower Upper

64 100

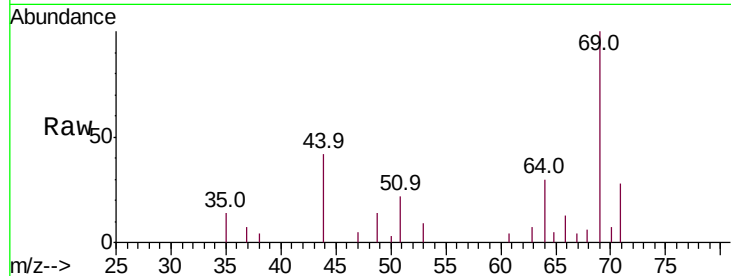
66 37.5 21.7 40.3

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Abundance Ion 64.10 (63.80 to 64.80): VV012067.D (-149) (-)

Ion 66.05 (65.75 to 66.75): VV012069.D (-66) (-)

1.60

1000

800

600

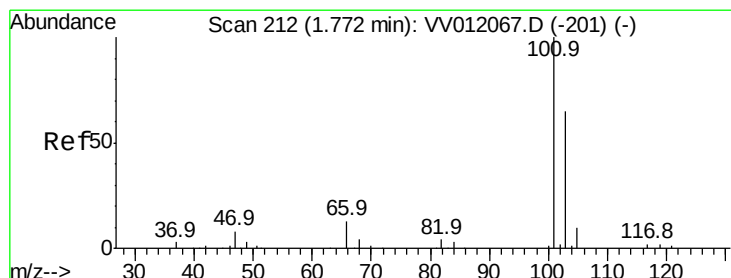
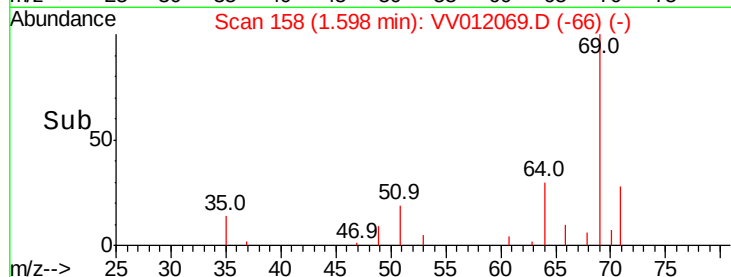
400

200

0

1.56 1.58 1.60 1.62 1.64

Time-->



#9

Trichlorofluoromethane

Concen: 0.282 ug/L

RT: 1.77 min Scan# 212

Delta R.T. -0.00 min

Lab File: VV012069.D

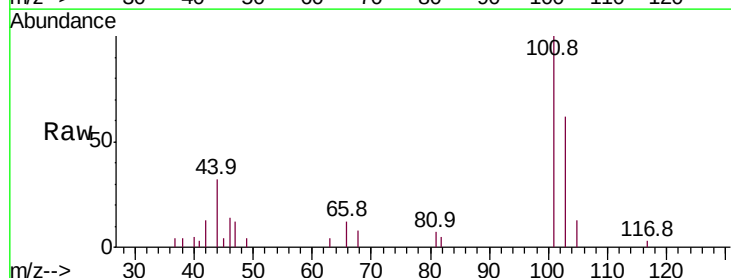
Acq: 30 Jul 2019 11:39

Tgt Ion: 101 Resp: 3963

Ion Ratio Lower Upper

101 100

103 63.2 52.6 79.0



Abundance Ion 101.00 (100.70 to 101.70): VV012067.D (-201) (-)

Ion 103.00 (102.70 to 103.70): VV012069.D (-119) (-)

1.77

3000

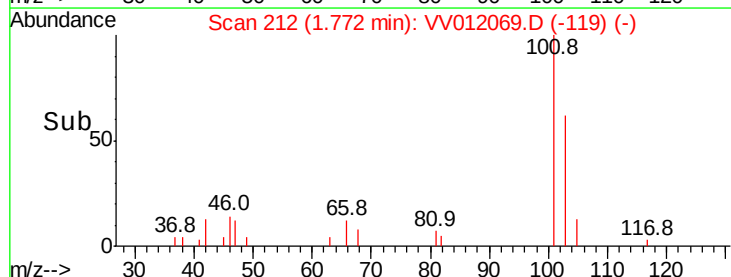
2000

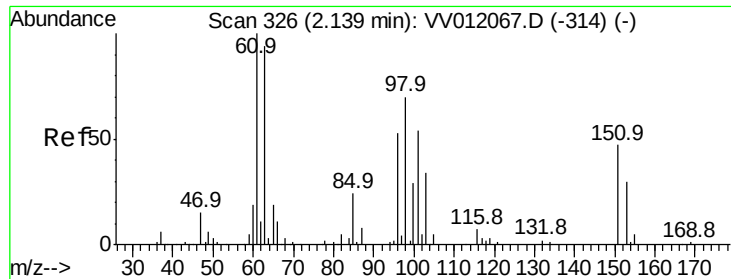
1000

0

1.75 1.77 1.79

Time-->





#10

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

Concen: 0.359 ug/L

RT: 2.14 min Scan# 326

Delta R.T. -0.00 min

Lab File: VV012069.D

Acq: 30 Jul 2019 11:39

Instrument :

MSVOA_V

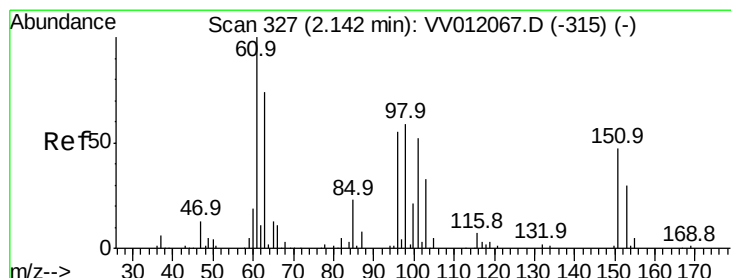
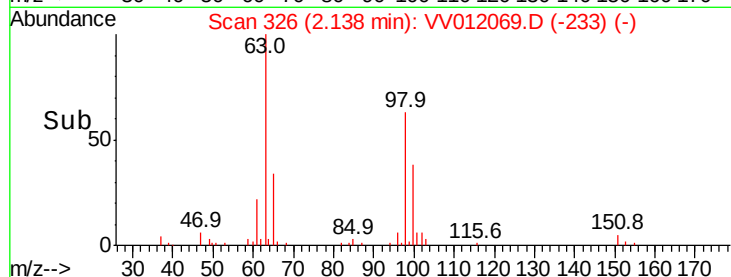
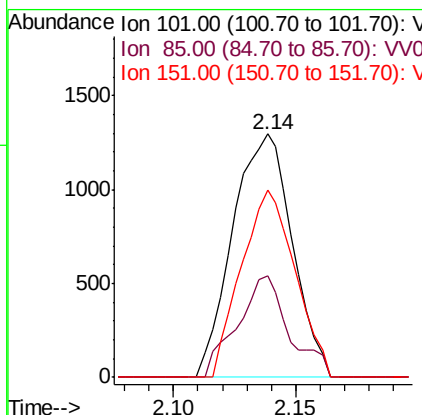
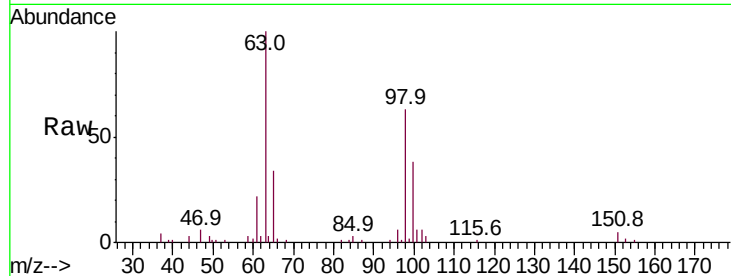
ClientSampleId :

MDL03

Tot Ion:	101	Resp:	2191
Ion Ratio	Lower	Upper	
101	100		
85	36.1	37.8	56.8#
151	69.6	71.4	107.2#

Manual Integrations
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#12

1,1-Dichloroethene

Concen: 0.341 ug/L

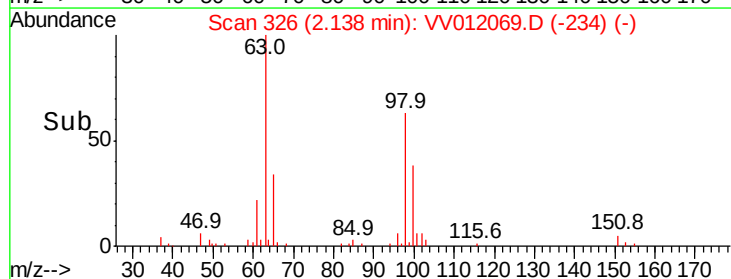
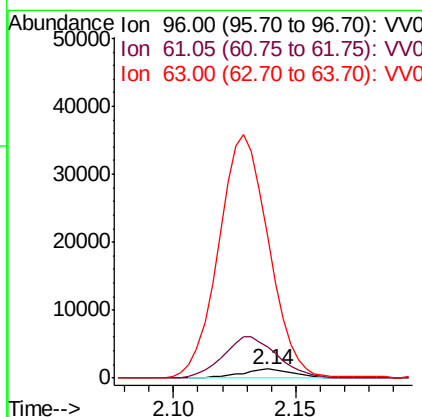
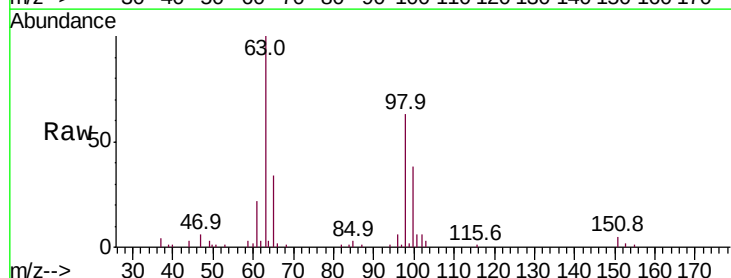
RT: 2.14 min Scan# 326

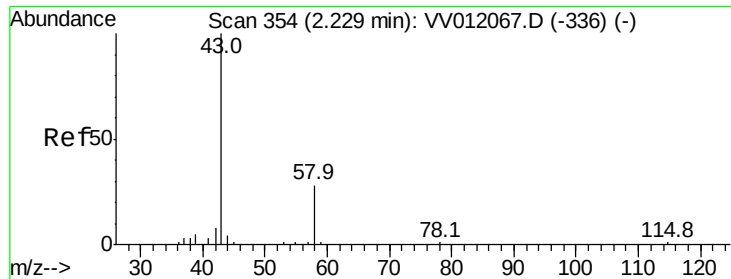
Delta R.T. -0.00 min

Lab File: VV012069.D

Acq: 30 Jul 2019 11:39

Tgt Ion:	96	Resp:	1925
Ion Ratio	Lower	Upper	
96	100		
61	349.0	127.8	237.4#
63	1603.7	92.7	172.3#





#13

Acetone

Concen: 2.768 ug/L m

RT: 2.23 min Scan# 353

Delta R.T. -0.00 min

Lab File: VV012069.D

Acq: 30 Jul 2019 11:39

Instrument :

MSVOA_V

ClientSampled :

MDL03

Tot Ion: 43 Resp: 2409

Ion Ratio Lower Upper

43 100

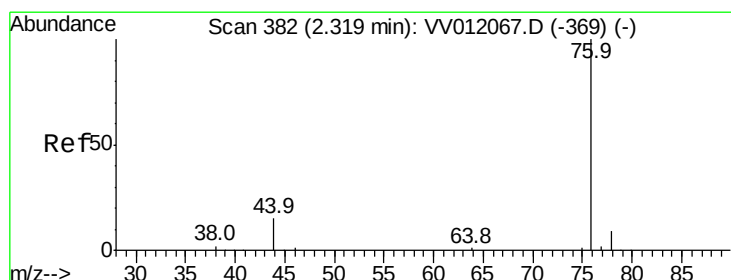
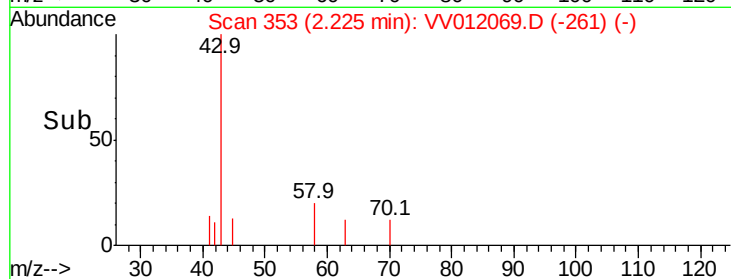
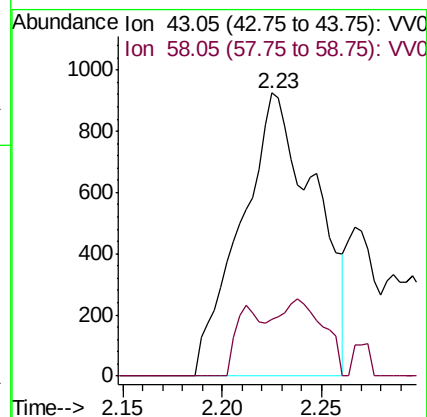
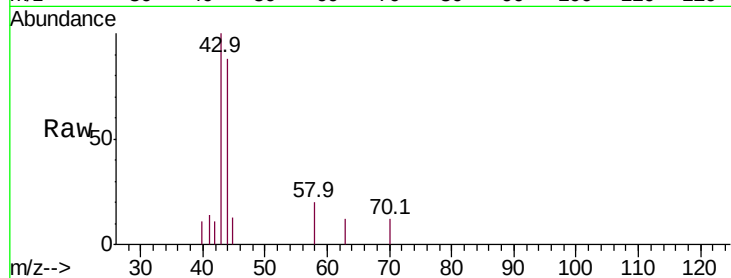
58 17.2 0.0 51.6

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#14

Carbon disulfide

Concen: 0.296 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VV012069.D

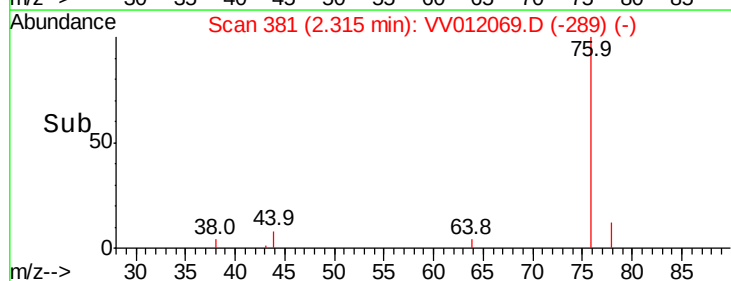
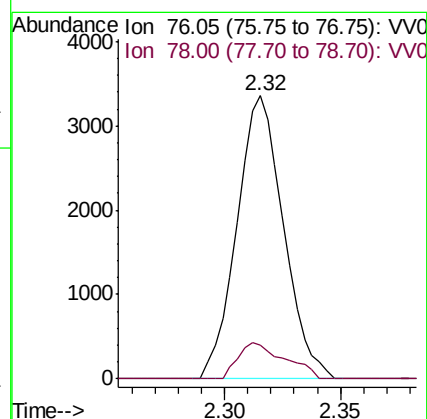
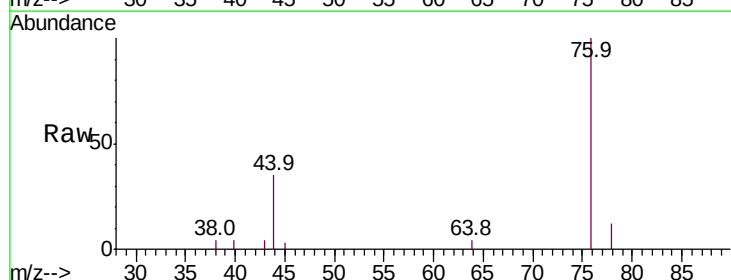
Acq: 30 Jul 2019 11:39

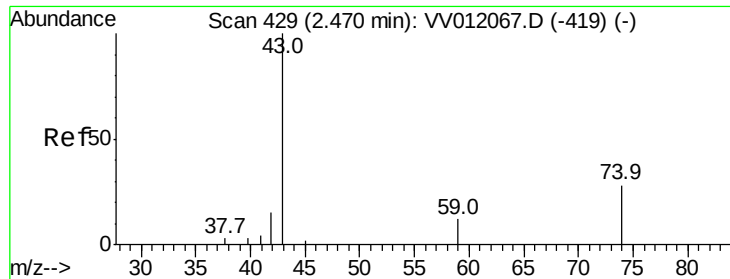
Tgt Ion: 76 Resp: 4676

Ion Ratio Lower Upper

76 100

78 12.0 7.2 10.8#





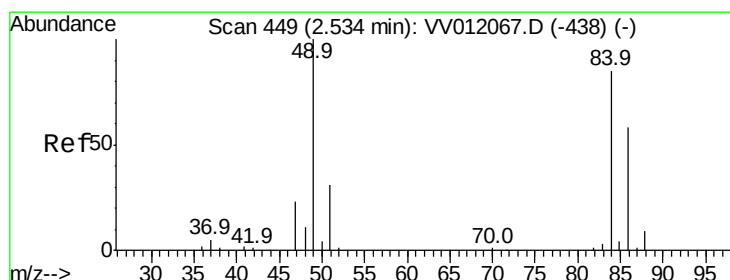
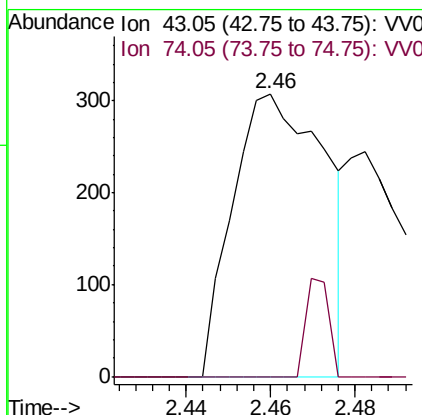
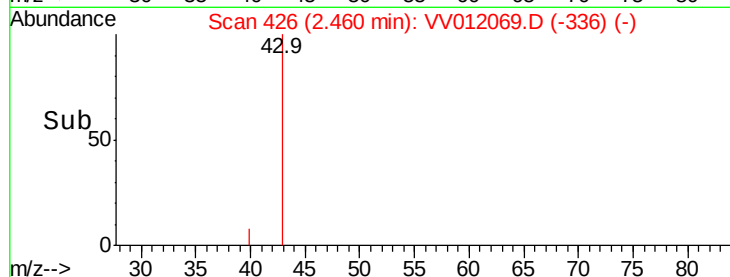
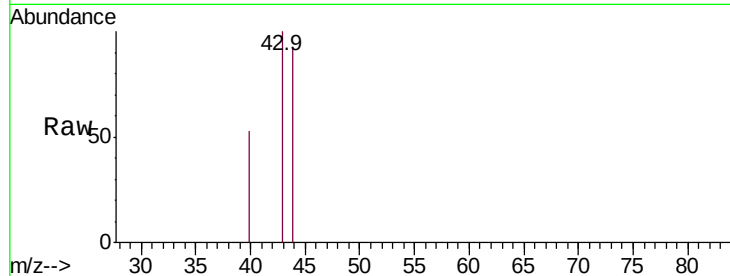
#15
Methvl Acetate
Concen: 0.260 ug/L
RT: 2.46 min Scan# 426
Delta R.T. -0.01 min
Lab File: VV012069.D
Acq: 30 Jul 2019 11:39

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tot Ion: 43 Resp: 465
Ion Ratio Lower Upper
43 100
74 8.6 24.4 36.6#

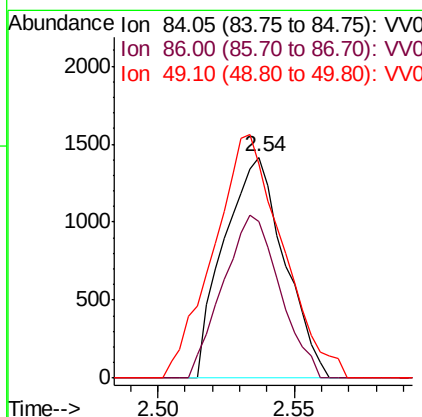
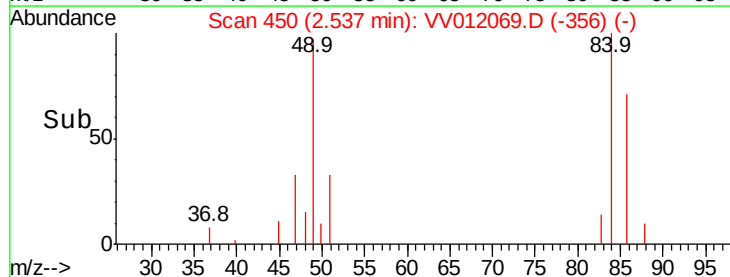
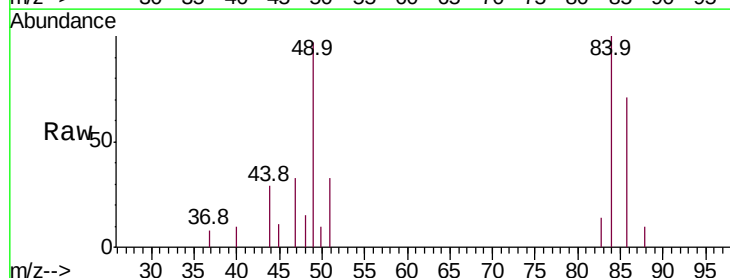
Manual Integrations
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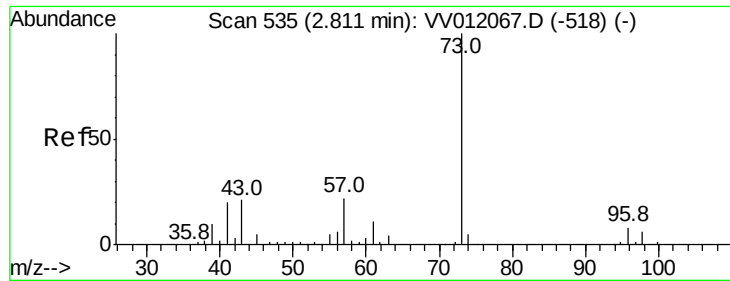
MMdadoda
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#16
Methylene chloride
Concen: 0.374 ug/L
RT: 2.54 min Scan# 450
Delta R.T. 0.00 min
Lab File: VV012069.D
Acq: 30 Jul 2019 11:39

Tgt Ion: 84 Resp: 2169
Ion Ratio Lower Upper
84 100
86 71.1 44.9 83.3
49 97.0 78.6 146.0





#17

Methyl tert-butyl Ether

Concen: 0.273 ug/L

RT: 2.81 min Scan# 535

Delta R.T. -0.00 min

Lab File: VV012069.D

Acq: 30 Jul 2019 11:39

Instrument :
MSVOA_V

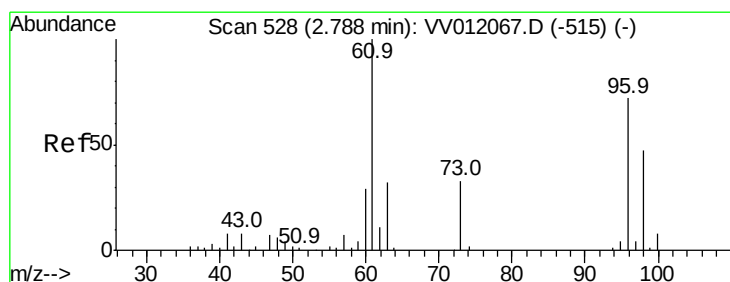
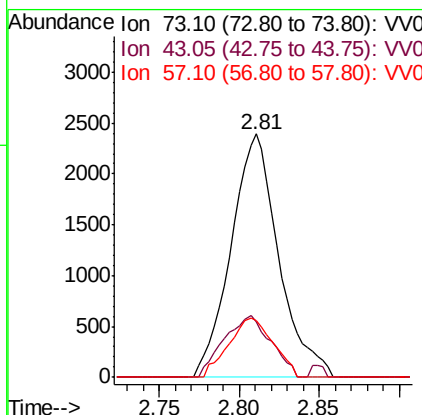
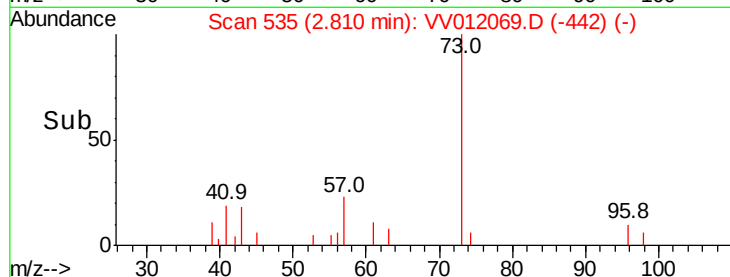
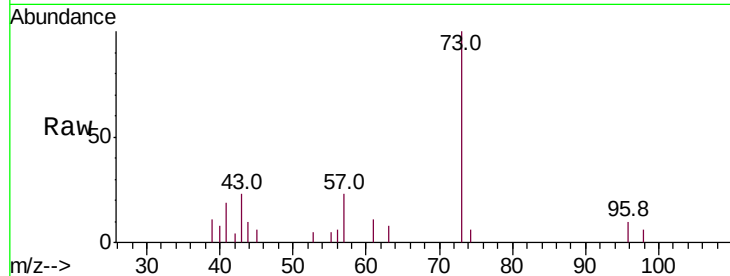
ClientSampled :
MDL03

Tot Ion: 73 Resp: 4856

Ion	Ratio	Lower	Upper
73	100		
43	25.0	17.6	26.4
57	22.7	17.0	25.6

Manual Integrations
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MMDadoda
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#18

trans-1,2-Dichloroethene

Concen: 0.266 ug/L

RT: 2.78 min Scan# 527

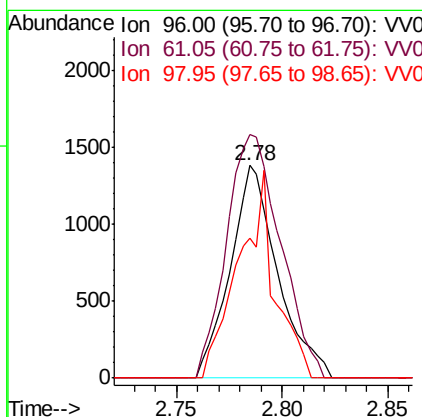
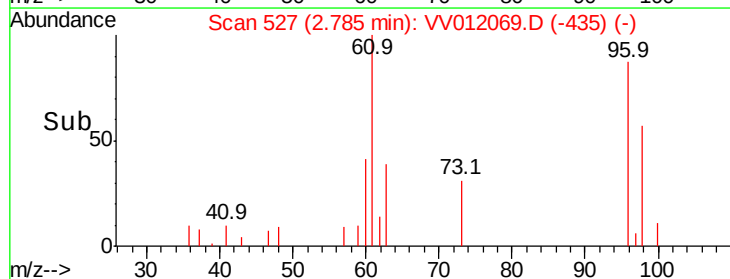
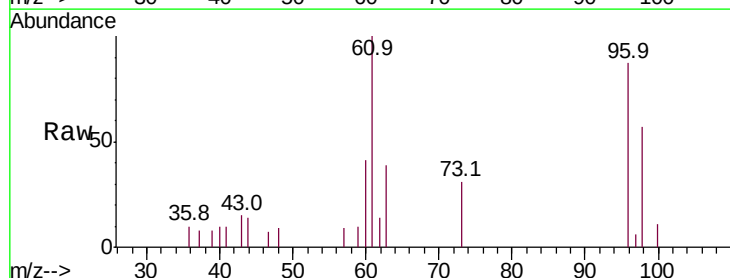
Delta R.T. -0.00 min

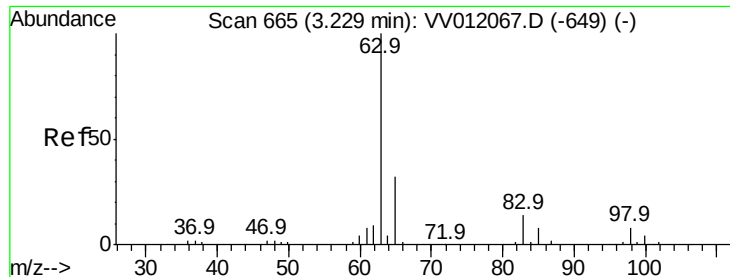
Lab File: VV012069.D

Acq: 30 Jul 2019 11:39

Tgt Ion: 96 Resp: 2163

Ion	Ratio	Lower	Upper
96	100		
61	114.4	97.2	180.6
98	65.7	45.0	83.6





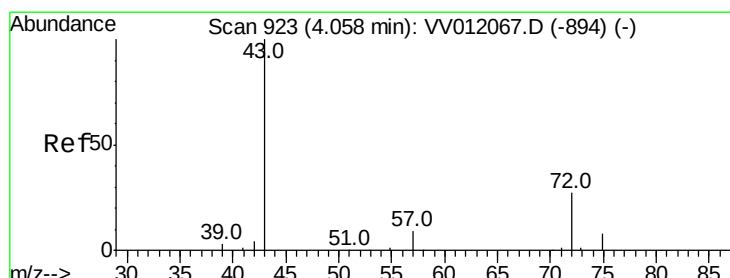
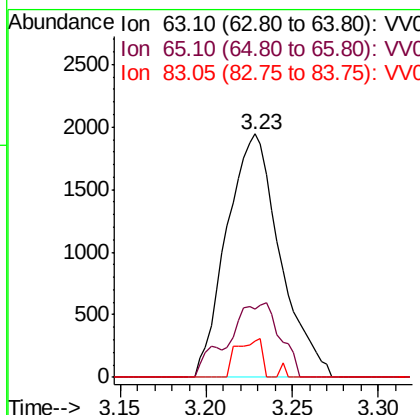
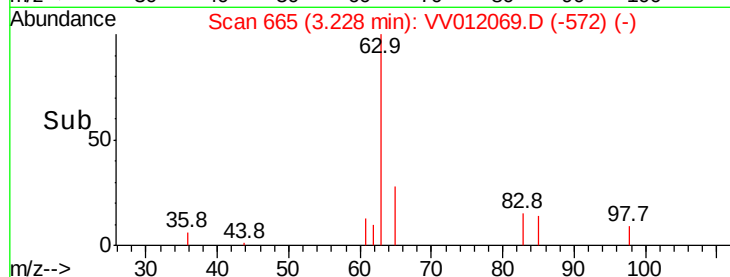
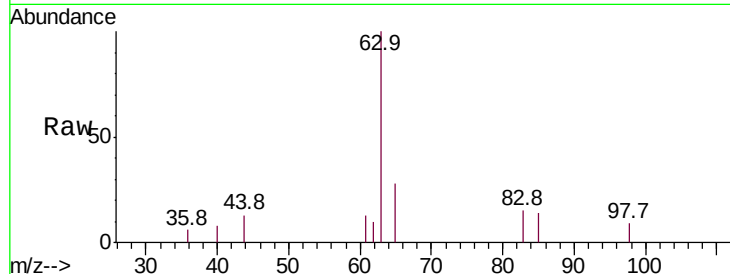
#19
 1,1-Dichloroethane
 Concen: 0.288 ug/L
 RT: 3.23 min Scan# 665
 Delta R.T. -0.00 min
 Lab File: VV012069.D
 Acq: 30 Jul 2019 11:39

Instrument :
 MSVOA_V
 ClientSampled :
 MDL03

Tot Ion:	63	Resp:	4192
Ion	Ratio	Lower	Upper
63	100		
65	28.3	23.0	42.6
83	14.9	9.7	17.9

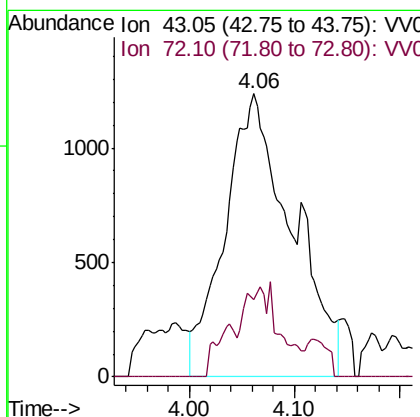
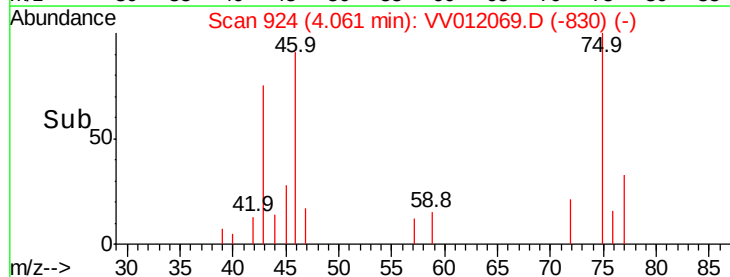
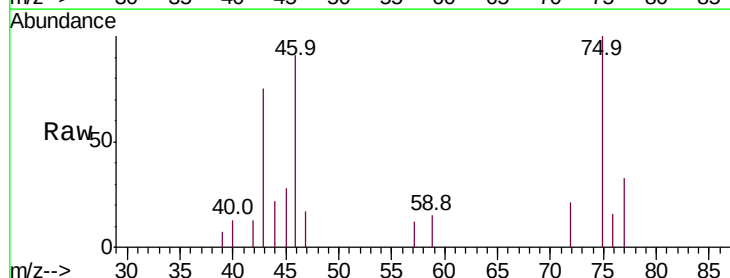
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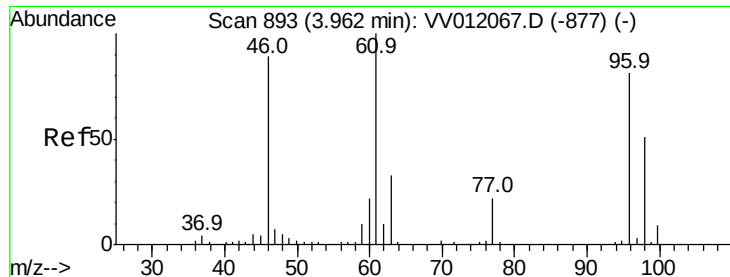
MMDadoda
 8/1/2019 3:18:17 PM



#21
 2-Butanone
 Concen: 3.199 ug/L m
 RT: 4.06 min Scan# 924
 Delta R.T. 0.00 min
 Lab File: VV012069.D
 Acq: 30 Jul 2019 11:39

Tgt Ion:	43	Resp:	5492
Ion	Ratio	Lower	Upper
43	100		
72	17.2	13.4	40.2





#22

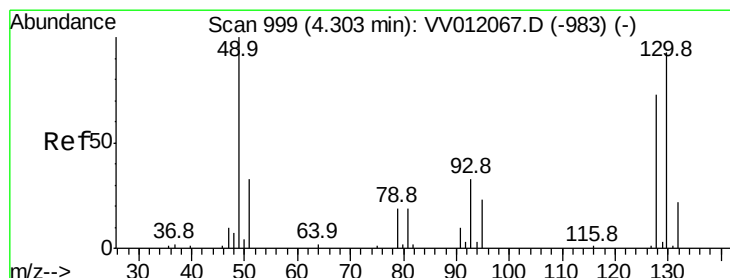
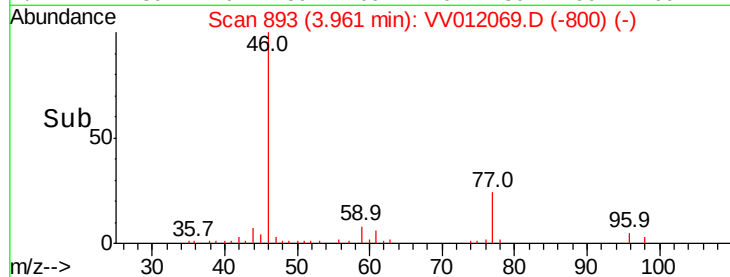
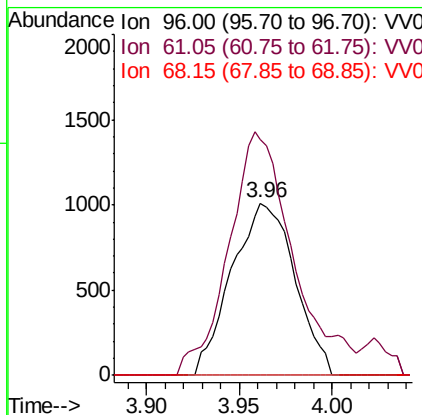
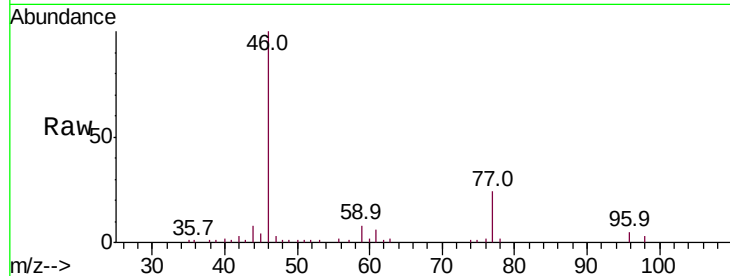
cis-1,2-Dichloroethene
Concen: 0.276 ug/L
RT: 3.96 min Scan# 893
Delta R.T. -0.00 min
Lab File: VV012069.D
Acq: 30 Jul 2019 11:39

Instrument :
MSVOA_V
ClientSampled :
MDL03

Tot Ion	Ratio	Lower	Upper
96	100		
61	136.6	90.0	167.2
68	0.0	0.0	0.0

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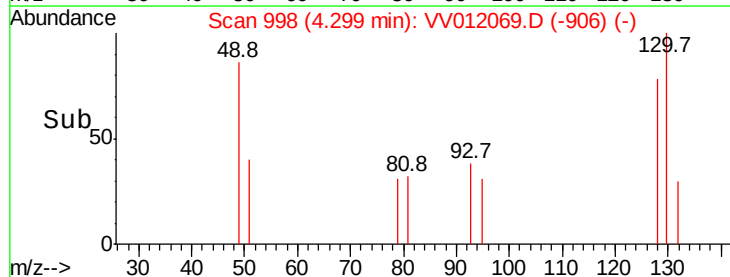
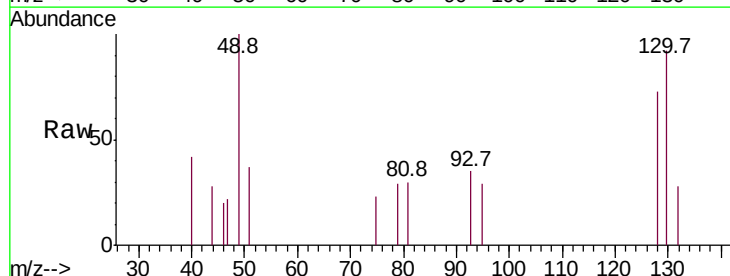
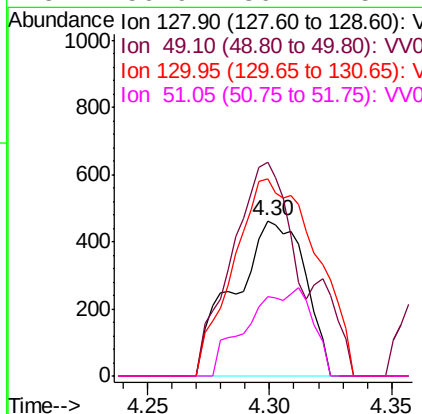
MMdadoda
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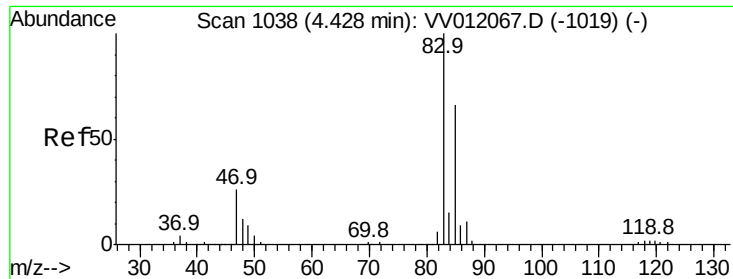


#23

Bromochloromethane
Concen: 0.245 ug/L
RT: 4.30 min Scan# 998
Delta R.T. -0.00 min
Lab File: VV012069.D
Acq: 30 Jul 2019 11:39

Tgt Ion	Ratio	Lower	Upper
128	100		
49	137.9	105.1	195.1
130	127.5	88.9	165.1
51	50.9	36.2	54.2





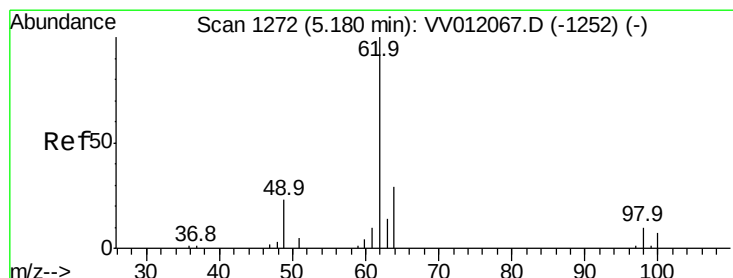
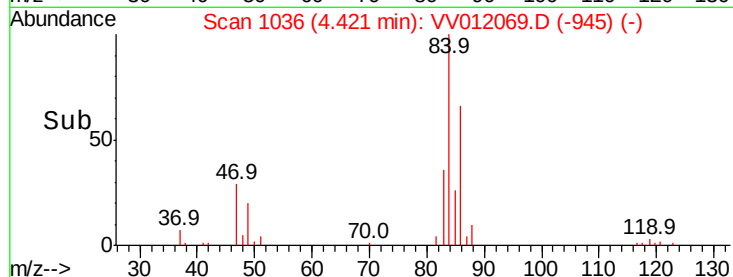
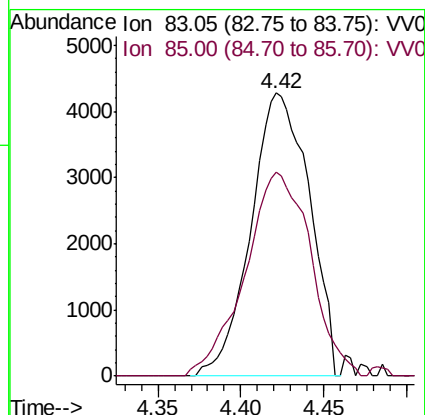
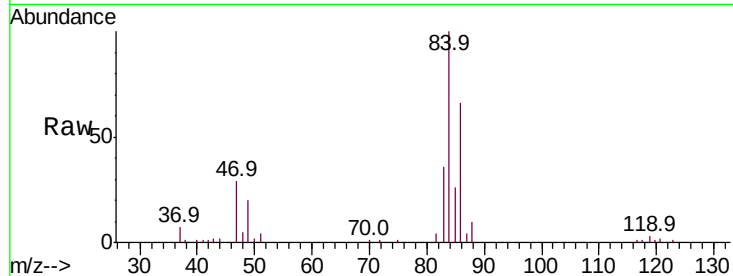
#25
Chloroform
Concen: 0.574 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. -0.01 min
Lab File: VV012069.D
Acq: 30 Jul 2019 11:39

Instrument :
MSVOA_V
ClientSampled :
MDL03

Tot Ion: 83 Resp: 10482
Ion Ratio Lower Upper
83 100
85 72.1 45.2 84.0

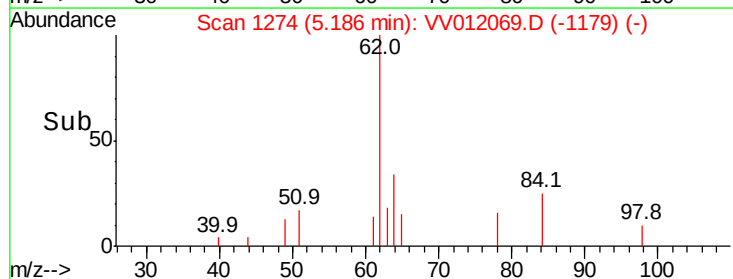
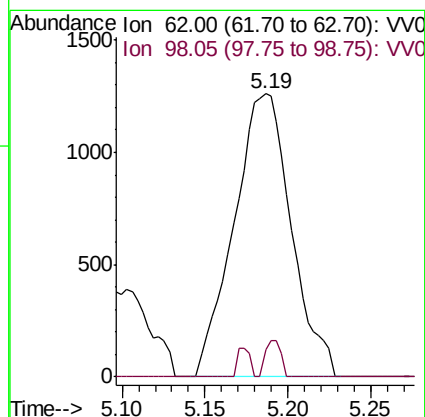
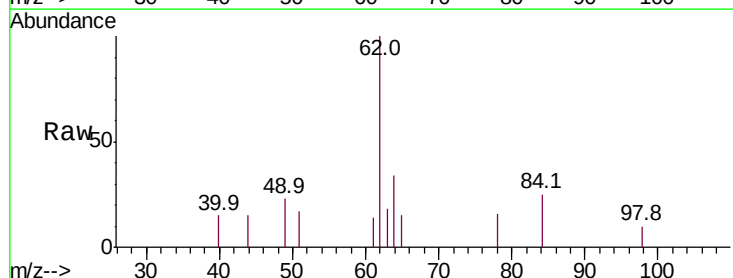
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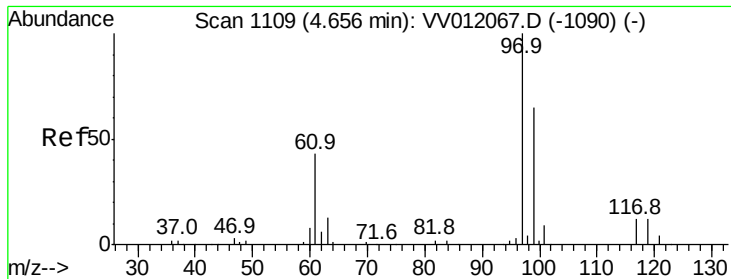
MMdadoda
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#27
1,2-Dichloroethane
Concen: 0.301 ug/L
RT: 5.19 min Scan# 1274
Delta R.T. 0.01 min
Lab File: VV012069.D
Acq: 30 Jul 2019 11:39

Tgt Ion: 62 Resp: 3030
Ion Ratio Lower Upper
62 100
98 9.8 7.0 10.6





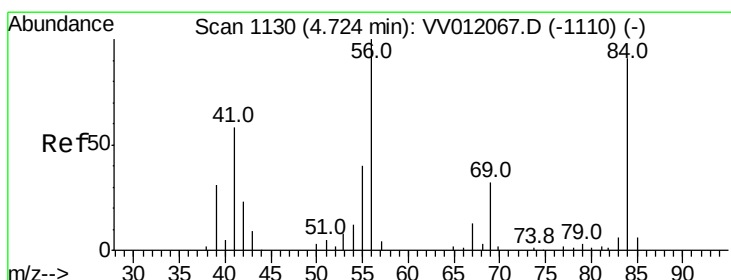
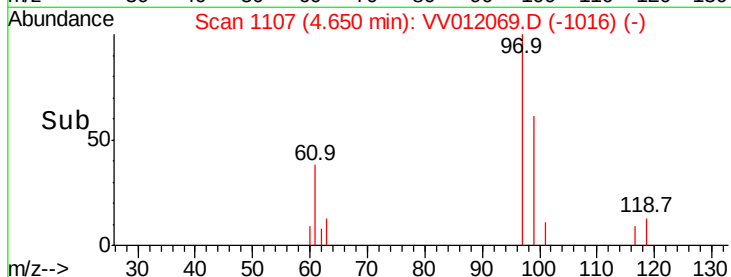
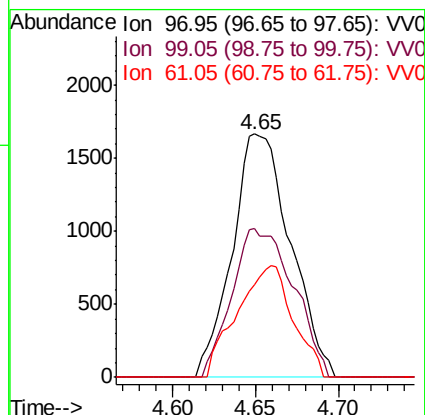
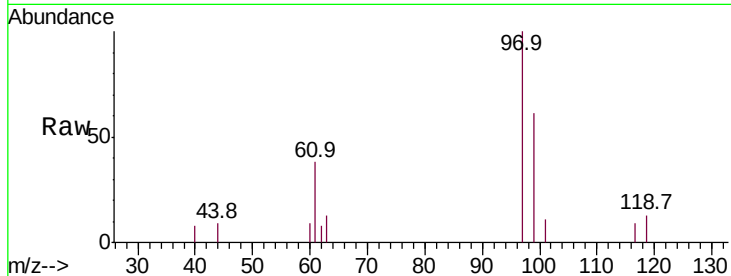
#29
1,1,1-Trichloroethane
Concen: 0.285 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. -0.01 min
Lab File: VV012069.D
Acq: 30 Jul 2019 11:39

Instrument :
MSVOA_V
ClientSampled :
MDL03

Tot Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.8	77.8
61	44.1	34.5	51.7

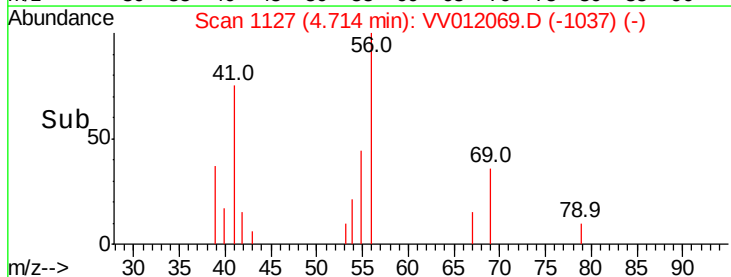
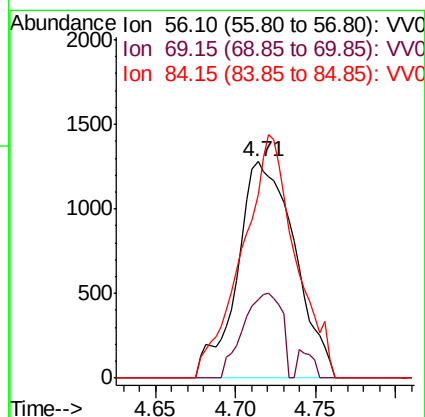
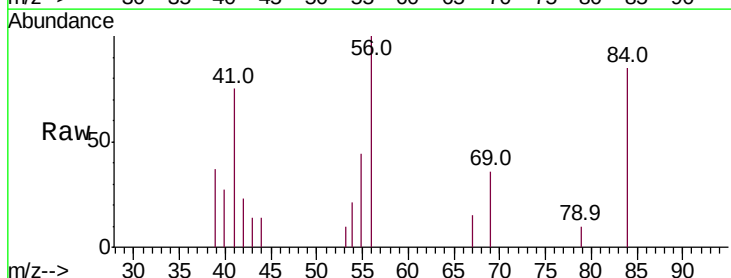
Manual Integrations
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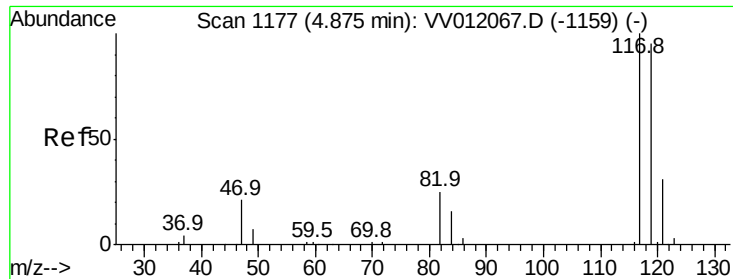
MMdadoda
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#30
Cyclohexane
Concen: 0.258 ug/L
RT: 4.71 min Scan# 1127
Delta R.T. -0.01 min
Lab File: VV012069.D
Acq: 30 Jul 2019 11:39

Tgt Ion	Ratio	Lower	Upper
56	100		
69	26.1	24.8	37.2
84	104.0	75.4	113.2





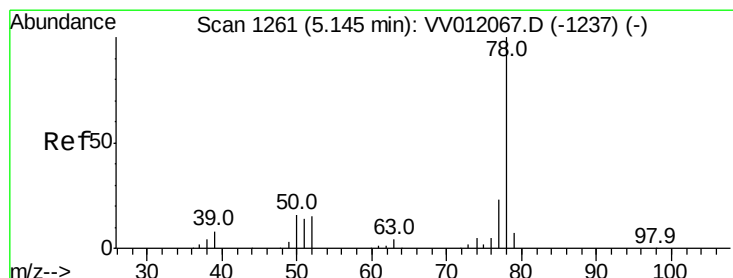
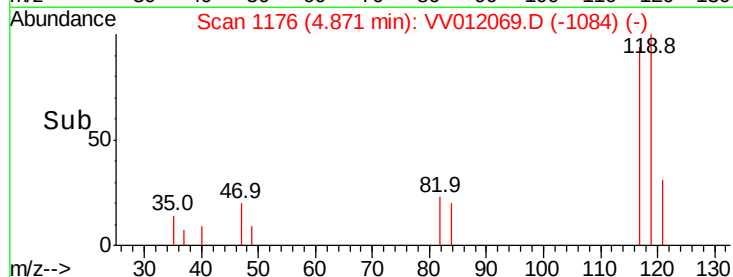
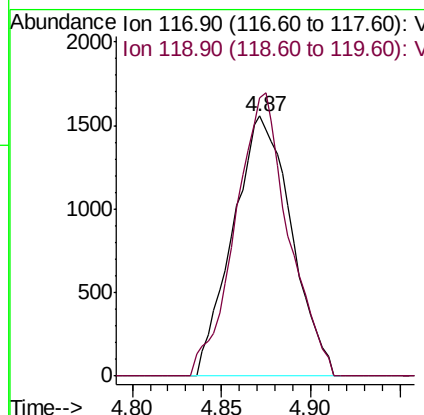
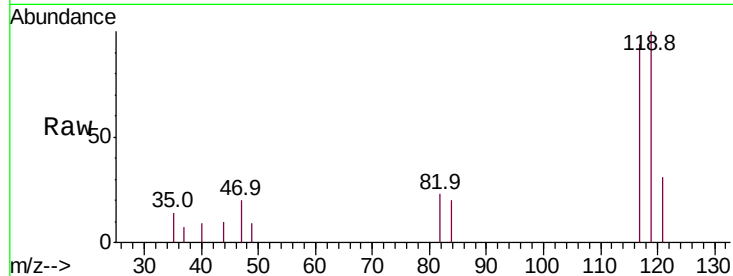
#31
Carbon tetrachloride
Concen: 0.277 ug/L
RT: 4.87 min Scan# 1176
Delta R.T. -0.00 min
Lab File: VV012069.D
Acq: 30 Jul 2019 11:39

Instrument :
MSVOA_V
ClientSampleId :
MDL03

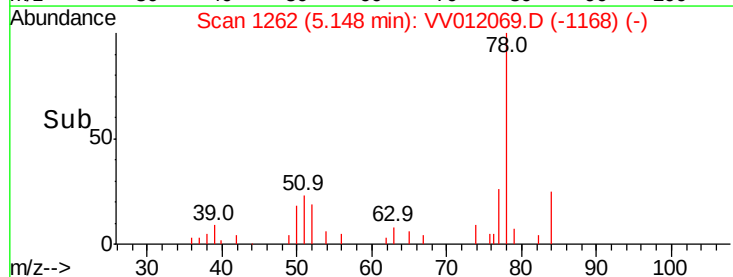
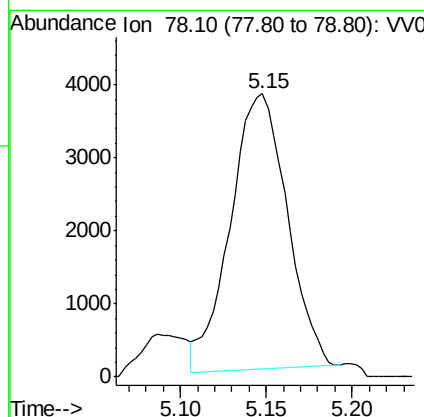
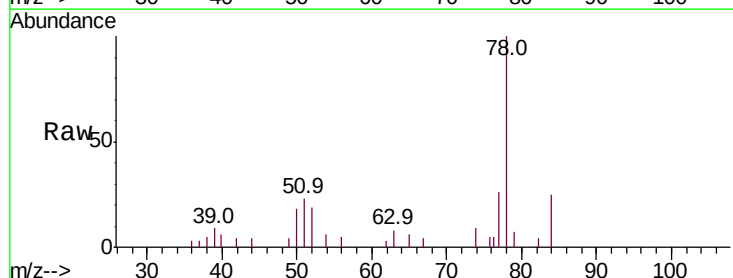
Tot Ion:117 Resp: 3563
Ion Ratio Lower Upper
117 100
119 98.7 77.7 116.5

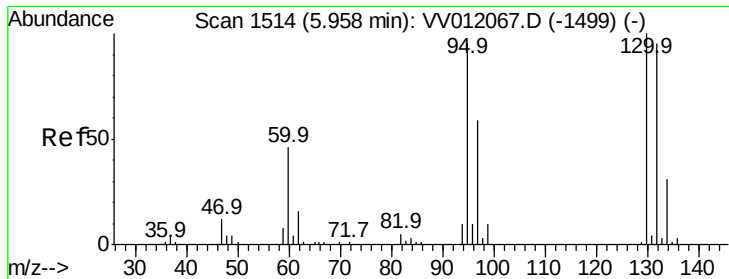
Manual Integrations
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#33
Benzene
Concen: 0.277 ug/L
RT: 5.15 min Scan# 1262
Delta R.T. 0.00 min
Lab File: VV012069.D
Acq: 30 Jul 2019 11:39
Tgt Ion: 78 Resp: 8697





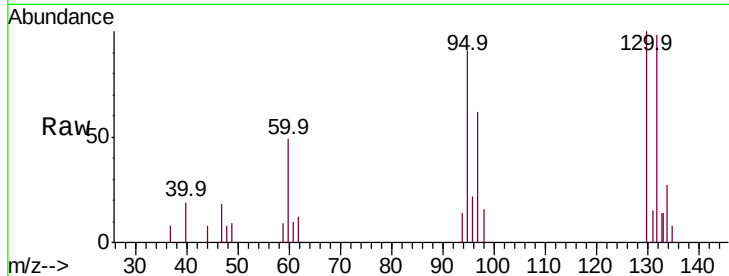
#34
 Trichloroethene
 Concen: 0.294 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. -0.00 min
 Lab File: VV012069.D
 Acq: 30 Jul 2019 11:39

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

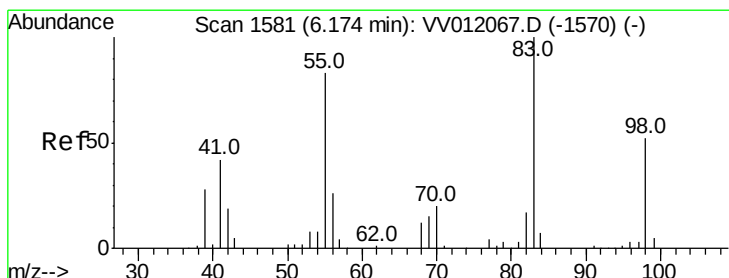
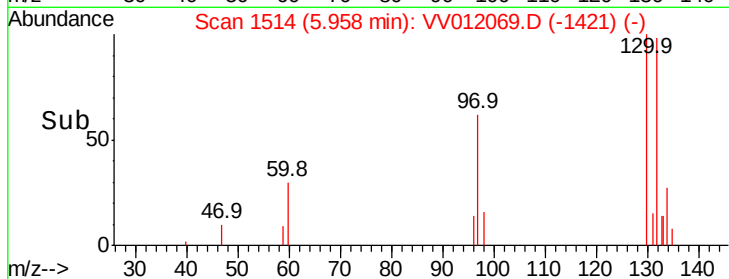
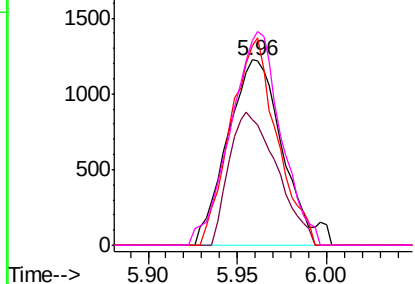
Tot Ion: 95 Resp: 2637
 Ion Ratio Lower Upper
 95 100
 97 68.0 42.8 79.6
 132 108.2 70.8 131.6
 130 110.4 72.3 134.3

Manual Integrations
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MMdadoda
 8/1/2019 3:18:17 PM



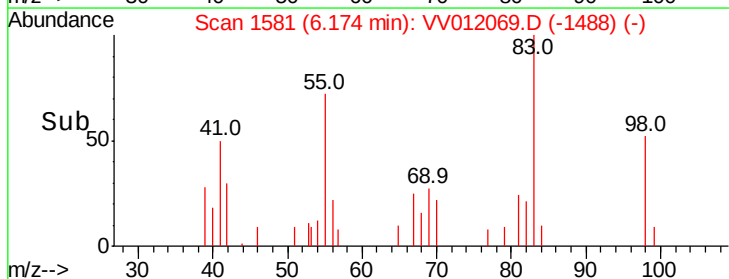
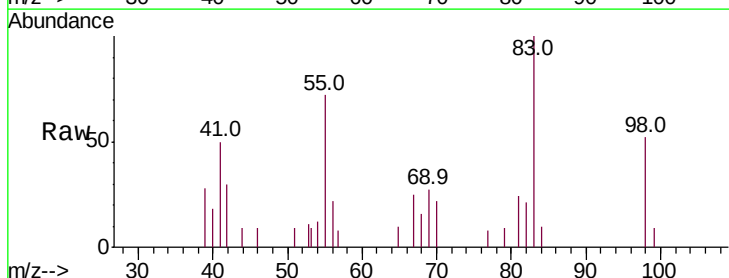
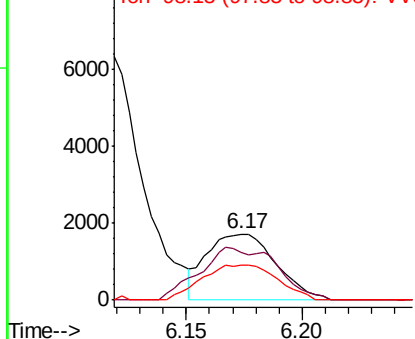
Abundance Ion 95.00 (94.70 to 95.70): VV012069.D (-1499) (-)
 Ion 96.95 (96.65 to 97.65): VV012069.D (-1499) (-)
 Ion 131.95 (131.65 to 132.65): VV012069.D (-1499) (-)
 Ion 129.95 (129.65 to 130.65): VV012069.D (-1499) (-)

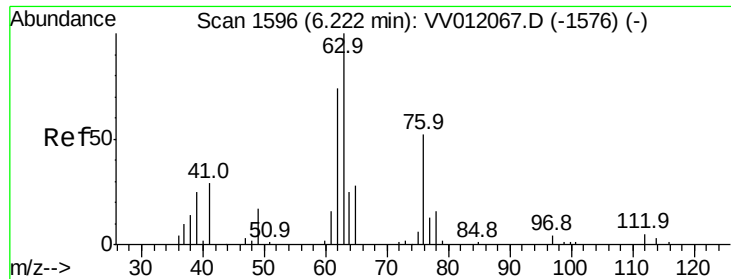


#35
 Methylcyclohexane
 Concen: 0.256 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. -0.00 min
 Lab File: VV012069.D
 Acq: 30 Jul 2019 11:39

Tgt Ion: 83 Resp: 3591
 Ion Ratio Lower Upper
 83 100
 55 54.9 60.1 90.1#
 98 57.8 40.2 60.4

Abundance Ion 83.15 (82.85 to 83.85): VV012069.D (-1488) (-)
 Ion 55.10 (54.80 to 55.80): VV012069.D (-1488) (-)
 Ion 98.15 (97.85 to 98.85): VV012069.D (-1488) (-)





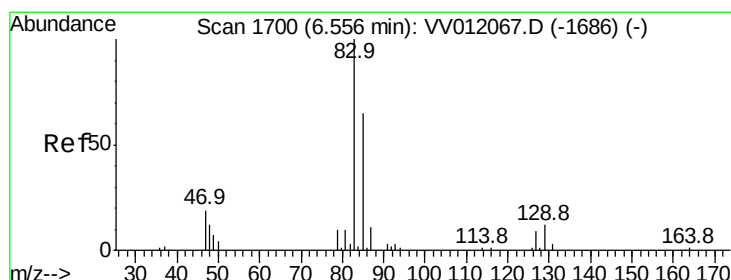
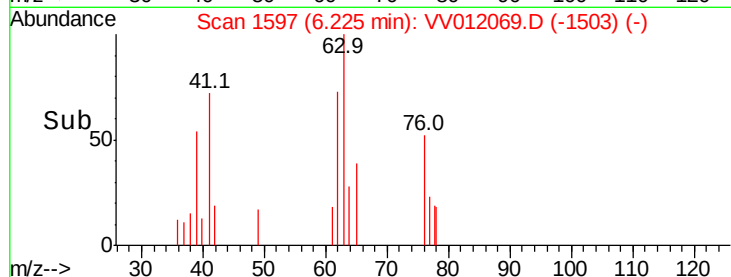
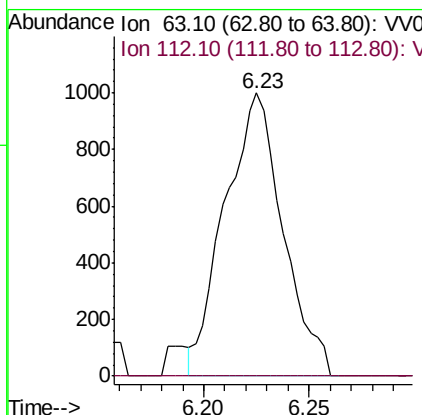
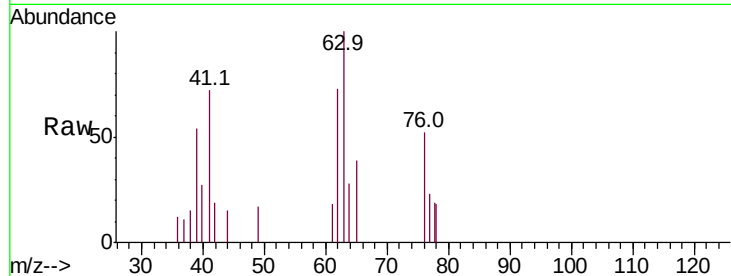
#37
1,2-Dichloropropane
Concen: 0.263 ug/L
RT: 6.23 min Scan# 1597
Delta R.T. 0.00 min
Lab File: VV012069.D
Acq: 30 Jul 2019 11:39

Instrument :
MSVOA_V
ClientSampled :
MDL03

Tot Ion: 63 Resp: 1913
Ion Ratio Lower Upper
63 100
112 0.0 3.8 5.6#

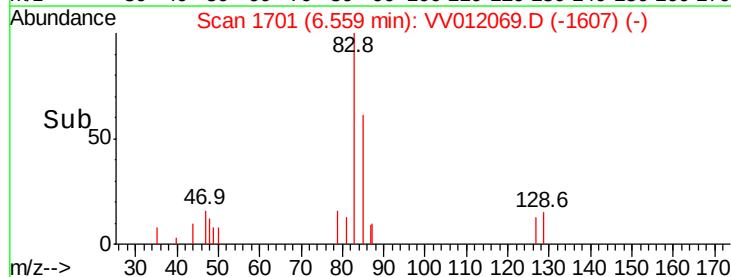
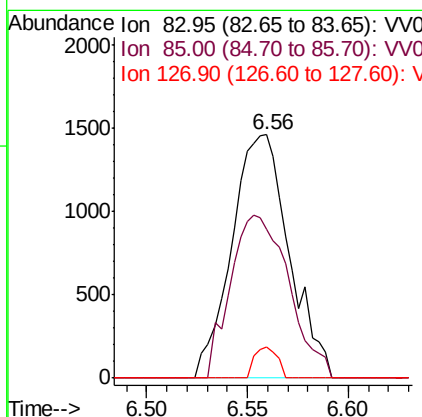
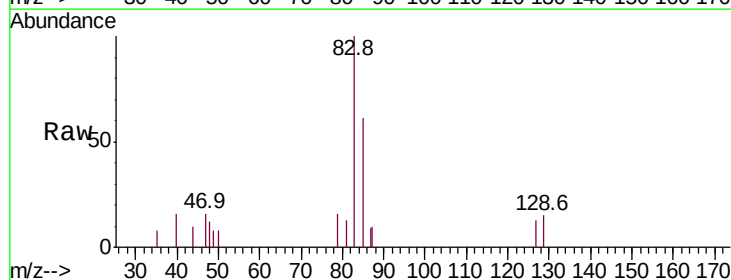
Manual Integrations
APPROVED

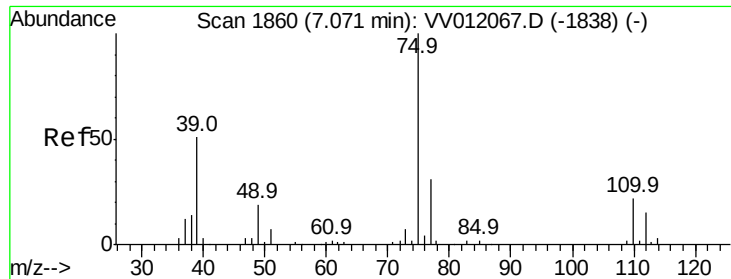
MMdadoda
8/1/2019 3:18:17 PM



#38
Bromodichloromethane
Concen: 0.283 ug/L
RT: 6.56 min Scan# 1701
Delta R.T. 0.00 min
Lab File: VV012069.D
Acq: 30 Jul 2019 11:39

Tgt Ion: 83 Resp: 2904
Ion Ratio Lower Upper
83 100
85 61.1 43.9 81.5
127 12.6 6.9 10.3#





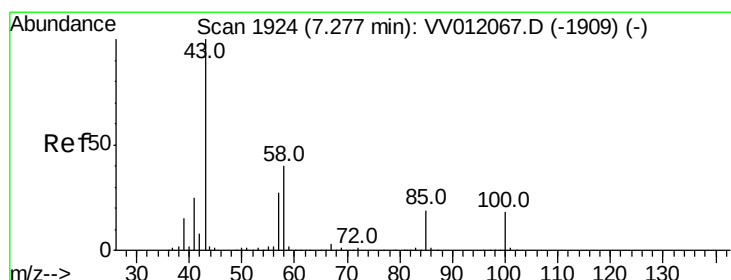
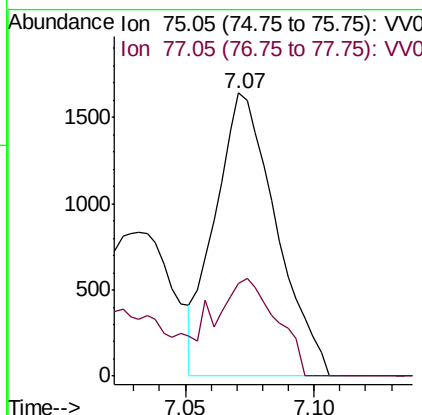
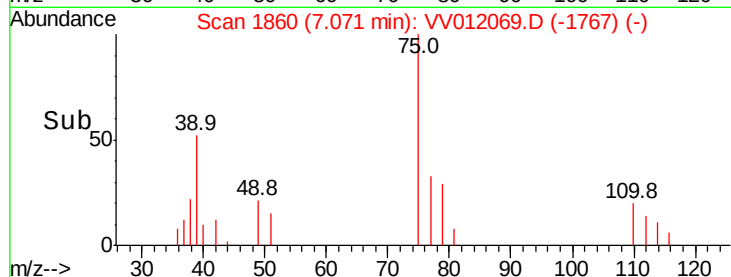
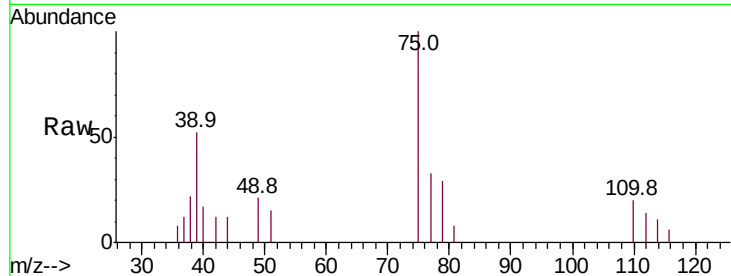
#39
 cis-1,3-Dichloropropene
 Concen: 0.238 ug/L
 RT: 7.07 min Scan# 1860
 Delta R.T. -0.00 min
 Lab File: VV012069.D
 Acq: 30 Jul 2019 11:39

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Tot Ion: 75 Resp: 2710
 Ion Ratio Lower Upper
 75 100
 77 32.9 22.4 41.6

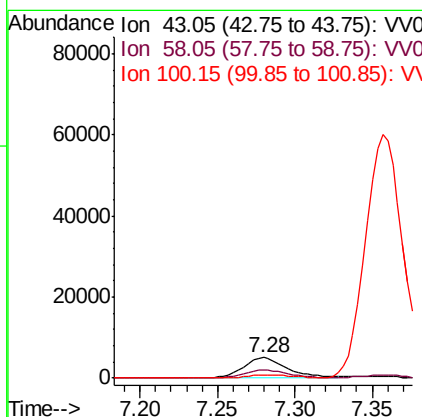
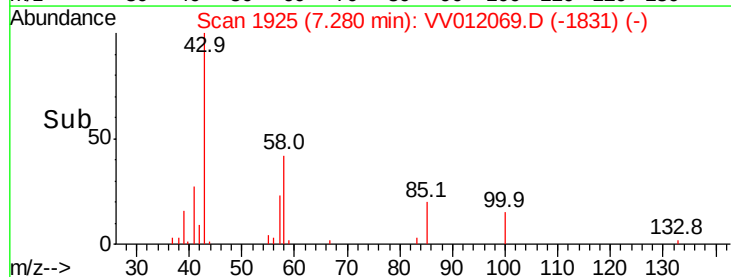
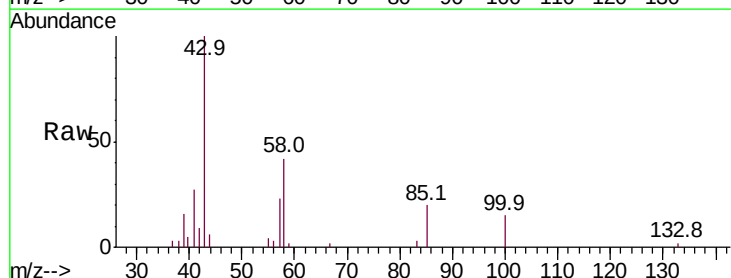
Manual Integrations
 APPROVED

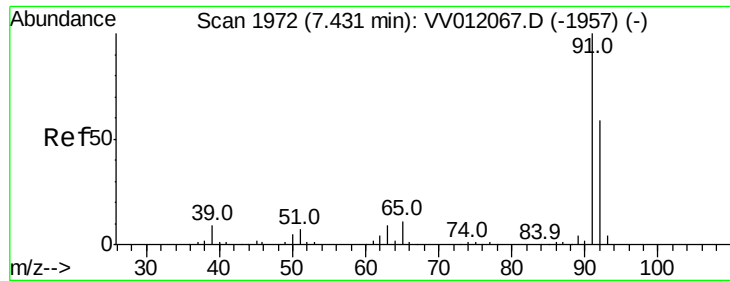
MMdadoda
 8/1/2019 3:18:17 PM



#40
 4-Methyl-2-pentanone
 Concen: 2.429 ug/L
 RT: 7.28 min Scan# 1925
 Delta R.T. 0.00 min
 Lab File: VV012069.D
 Acq: 30 Jul 2019 11:39

Tgt Ion: 43 Resp: 9968
 Ion Ratio Lower Upper
 43 100
 58 40.6 31.9 47.9
 100 0.0 14.0 21.0#





#42

Toluene

Concen: 0.290 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV012069.D

Acq: 30 Jul 2019 11:39

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tot Ion: 91 Resp: 10146

Ion Ratio Lower Upper

91 100

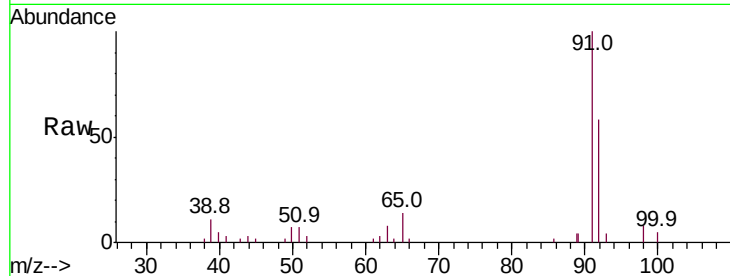
92 58.2 41.3 76.7

Manual Integrations

APPROVED

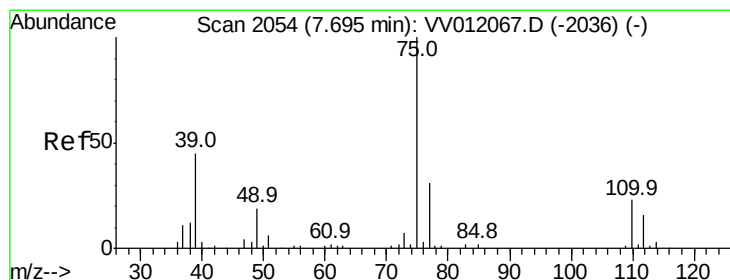
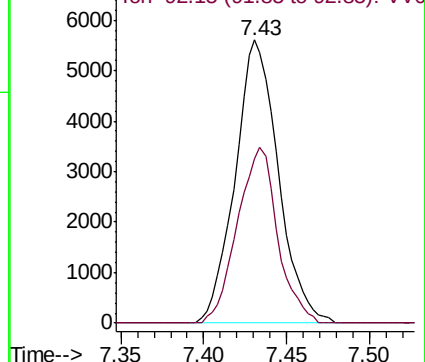
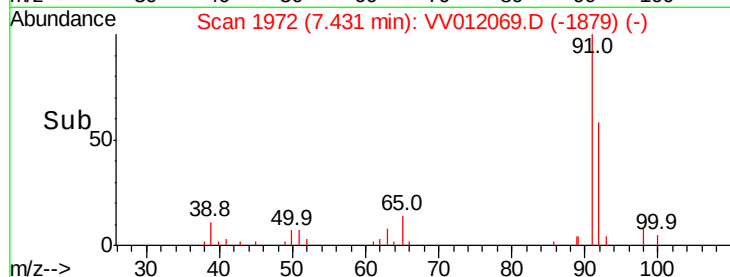
MMdadoda

8/1/2019 3:18:17 PM



Abundance Ion 91.15 (90.85 to 91.85): VV012069.D (-1879) (-)

Ion 92.15 (91.85 to 92.85): VV012069.D (-1879) (-)



#44

trans-1,3-Dichloropropene

Concen: 0.291 ug/L m

RT: 7.69 min Scan# 2054

Delta R.T. -0.00 min

Lab File: VV012069.D

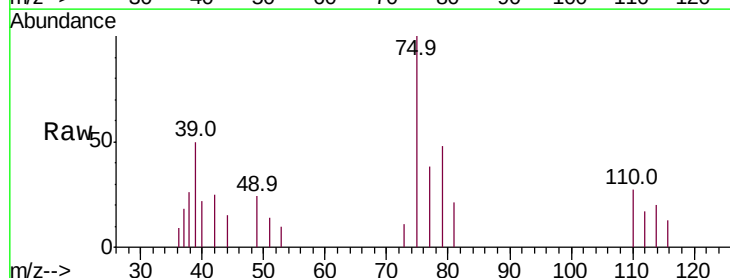
Acq: 30 Jul 2019 11:39

Tgt Ion: 75 Resp: 2686

Ion Ratio Lower Upper

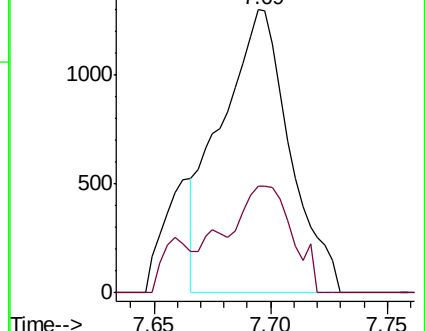
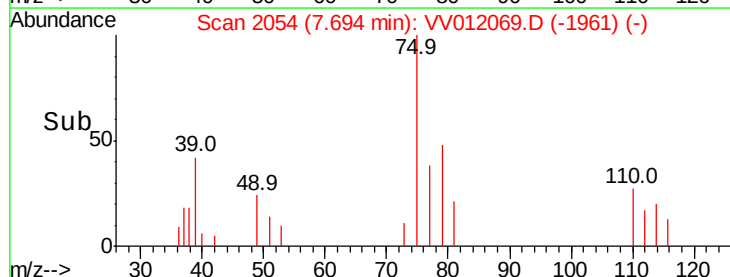
75 100

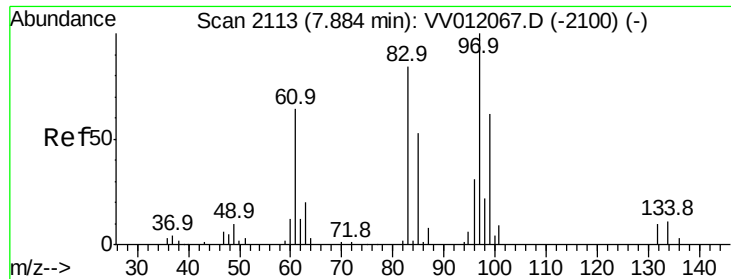
77 37.6 21.6 40.0



Abundance Ion 75.05 (74.75 to 75.75): VV012069.D (-1961) (-)

Ion 77.05 (76.75 to 77.75): VV012069.D (-1961) (-)





#45

1,1,2-Trichloroethane

Concen: 0.269 ug/L

RT: 7.88 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VV012069.D

Acq: 30 Jul 2019 11:39

Instrument :

MSVOA_V

ClientSampled :

MDL03

Tot Ion: 97 Resp: 1495

Ion Ratio Lower Upper

97 100

99 48.3 42.0 78.0

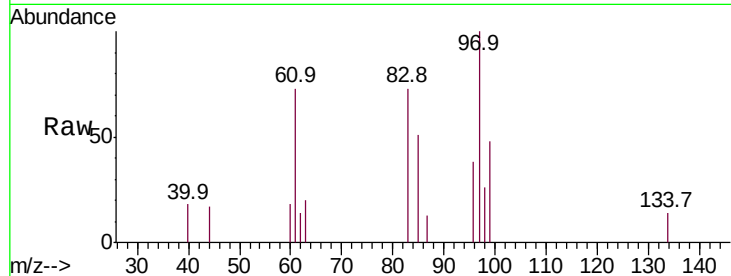
83 72.7 57.6 107.0

85 50.6 34.6 64.2

Manual Integrations
APPROVED

MMdadoda

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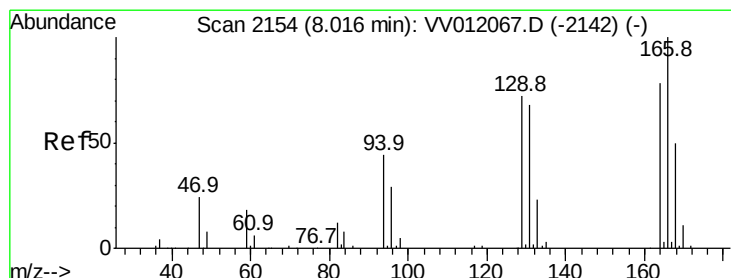
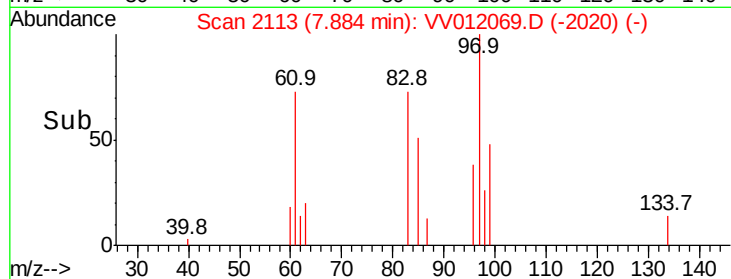
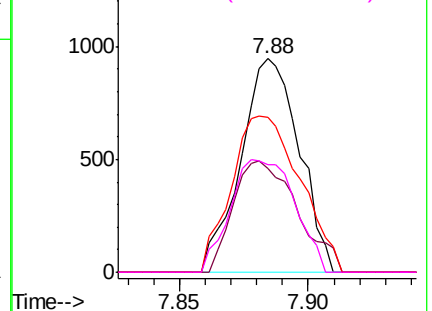
Abundance

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: 0.325 ug/L

RT: 8.03 min Scan# 2158

Delta R.T. 0.01 min

Lab File: VV012069.D

Acq: 30 Jul 2019 11:39

Tgt Ion: 164 Resp: 2545

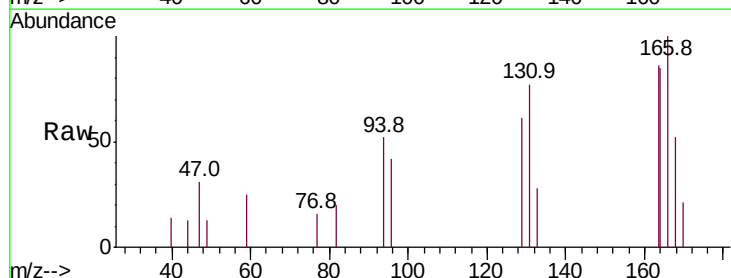
Ion Ratio Lower Upper

164 100

129 35.8 61.9 114.9#

131 45.2 59.4 110.4#

166 58.5 89.6 166.4#



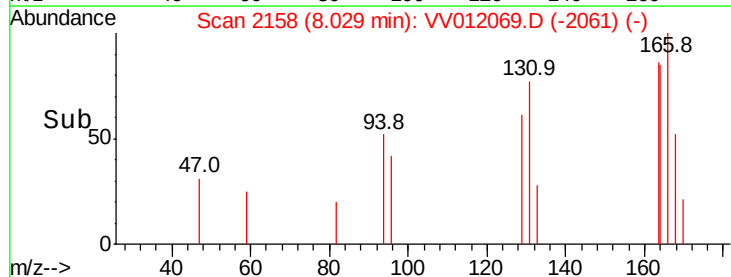
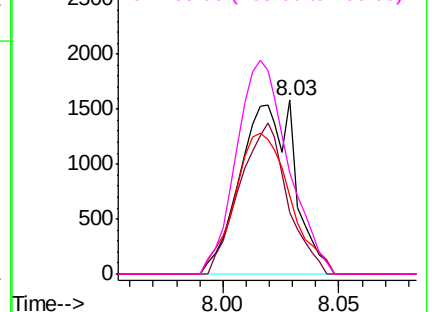
Abundance

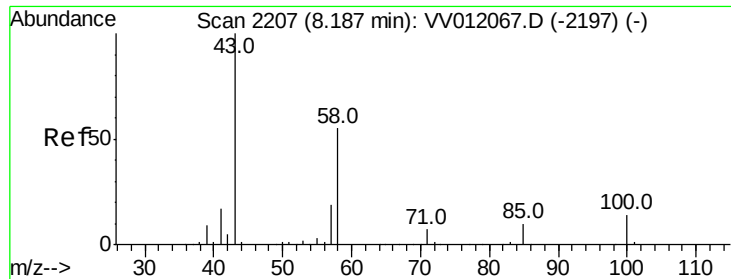
Ion 163.90 (163.60 to 164.60): V

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





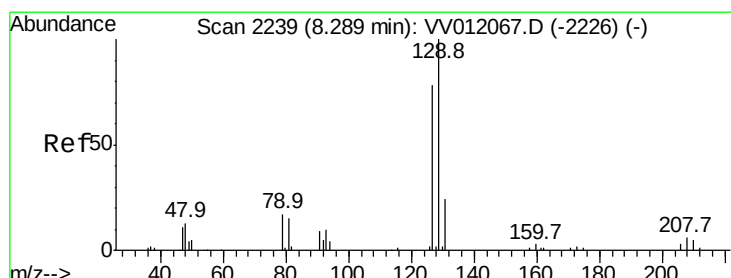
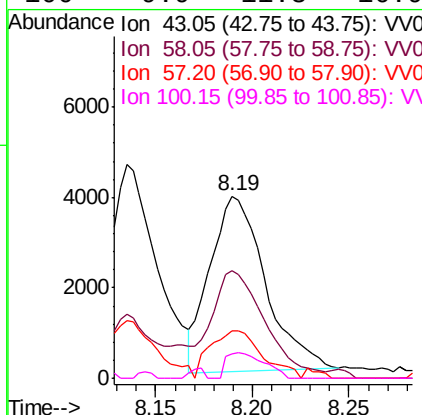
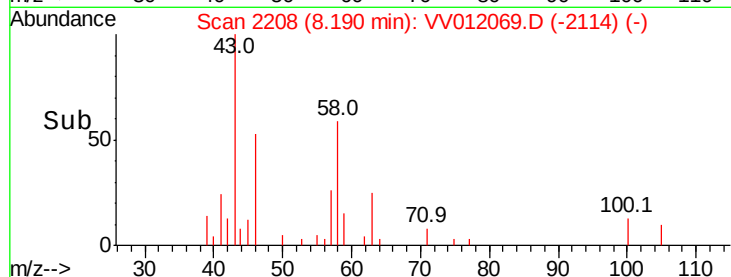
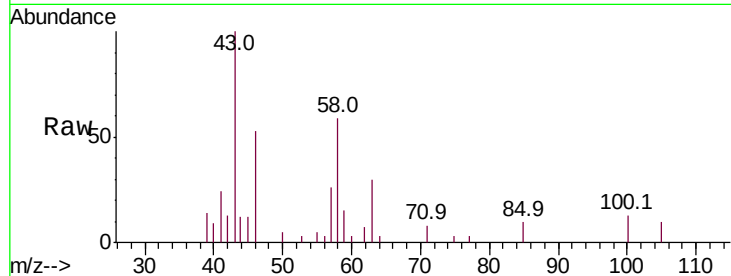
#48
2-Hexanone
Concen: 2.670 ug/L
RT: 8.19 min Scan# 2208
Delta R.T. 0.00 min
Lab File: VV012069.D
Acq: 30 Jul 2019 11:39

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tot Ion: 43 Resp: 7745
Ion Ratio Lower Upper
43 100
58 60.5 44.1 66.1
57 25.2 16.1 24.1#
100 9.9 11.3 16.9#

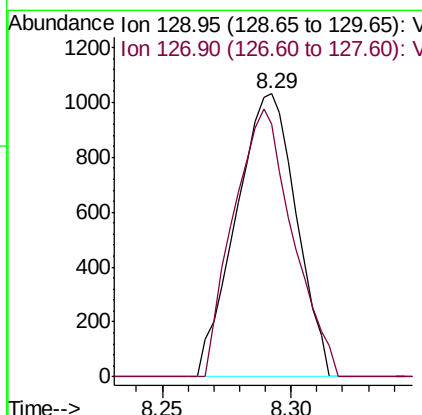
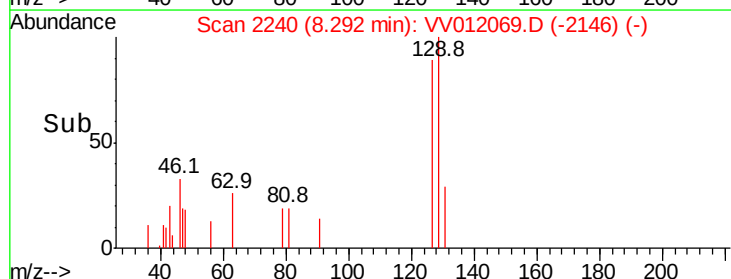
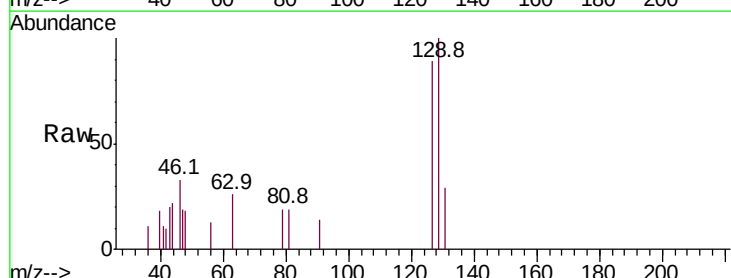
Manual Integrations
APPROVED

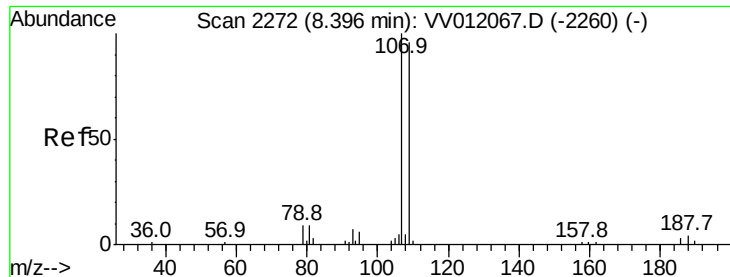
MMdadoda
8/1/2019 3:18:17 PM



#49
Dibromochloromethane
Concen: 0.247 ug/L
RT: 8.29 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VV012069.D
Acq: 30 Jul 2019 11:39

Tgt Ion: 129 Resp: 1681
Ion Ratio Lower Upper
129 100
127 89.1 55.4 102.8





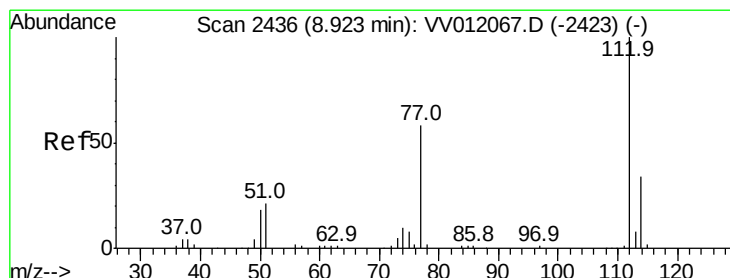
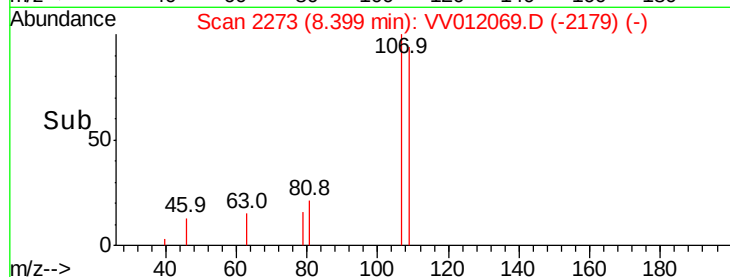
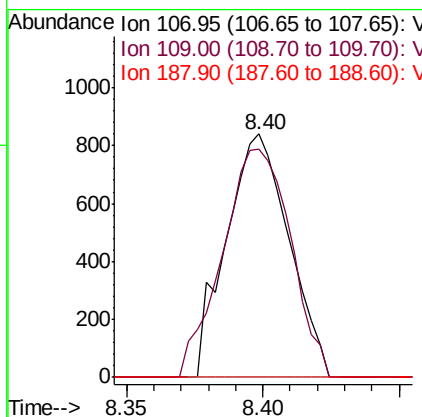
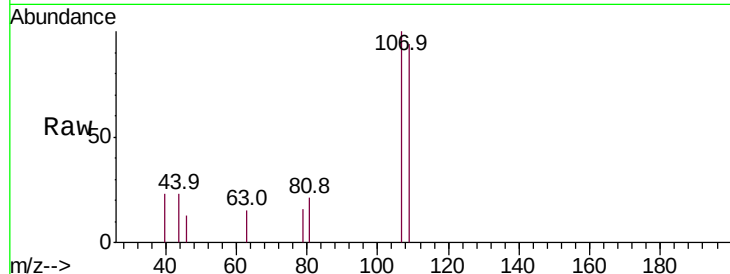
#50
1,2-Dibromoethane
Concen: 0.258 ug/L
RT: 8.40 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VV012069.D
Acq: 30 Jul 2019 11:39

Instrument :
MSVOA_V
ClientSampled :
MDL03

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.9	66.3	123.1
188	0.0	3.4	5.0#

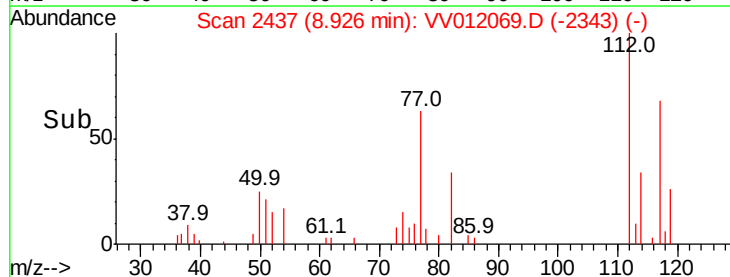
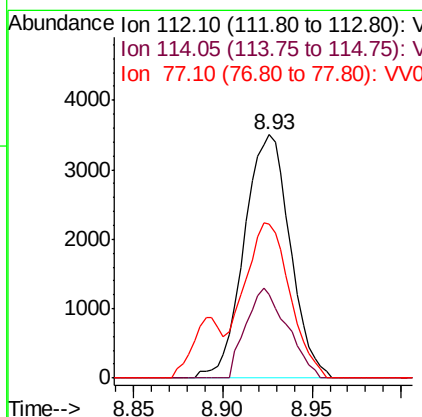
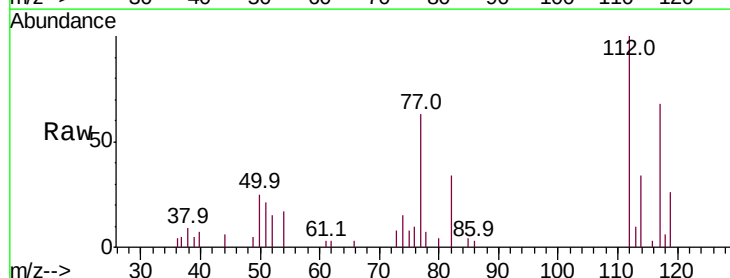
Manual Integrations
APPROVED

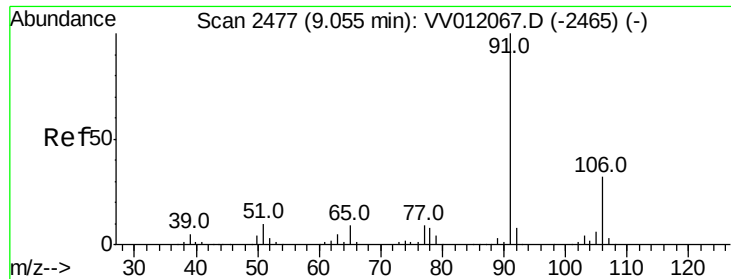
MMDadoda
8/1/2019 3:18:17 PM



#51
Chlorobenzene
Concen: 0.270 ug/L
RT: 8.93 min Scan# 2437
Delta R.T. 0.00 min
Lab File: VV012069.D
Acq: 30 Jul 2019 11:39

Tgt Ion	Ratio	Lower	Upper
112	100		
114	34.4	22.1	41.1
77	63.3	45.9	68.9





#52

Ethylbenzene

Concen: 0.270 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV012069.D

Acq: 30 Jul 2019 11:39

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tot Ion: 91 Resp: 10757

Ion Ratio Lower Upper

91 100

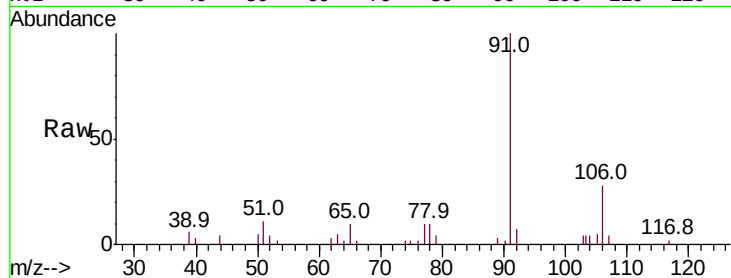
106 28.4 21.6 40.2

Manual Integrations

APPROVED

MMdadoda

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Abundance Ion 91.15 (90.85 to 91.85): VV012067.D (-2465) (-)

Ion 106.15 (105.85 to 106.85): VV012067.D (-2465) (-)

9.05

6000

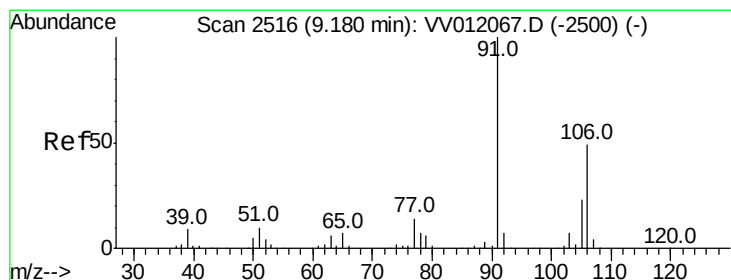
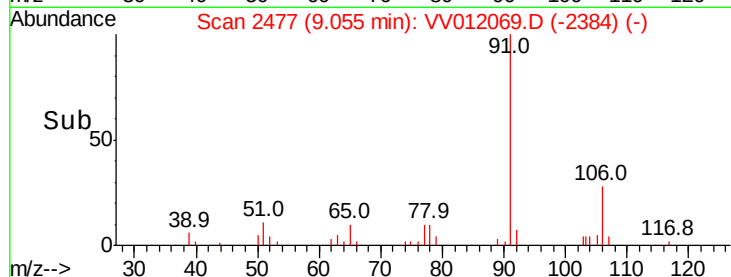
4000

2000

0

9.00 9.05 9.10

Time-->



#53

m,p-xylene

Concen: 0.263 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV012069.D

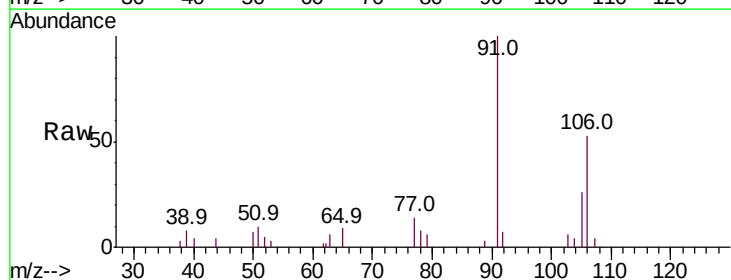
Acq: 30 Jul 2019 11:39

Tgt Ion: 106 Resp: 4002

Ion Ratio Lower Upper

106 100

91 189.0 141.6 263.0



Abundance Ion 106.15 (105.85 to 106.85): VV012067.D (-2500) (-)

Ion 91.15 (90.85 to 91.85): VV012067.D (-2500) (-)

9.18

5000

4000

3000

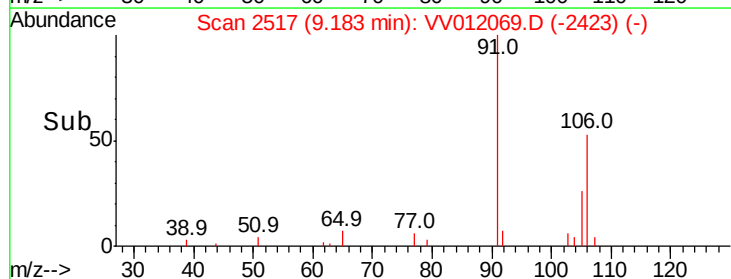
2000

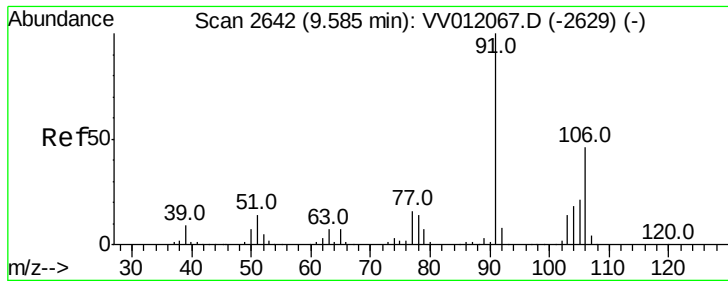
1000

0

9.15 9.20

Time-->





#54

o-xylene

Concen: 0.249 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV012069.D

Acq: 30 Jul 2019 11:39

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tot Ion:106 Resp: 3585

Ion Ratio Lower Upper

106 100

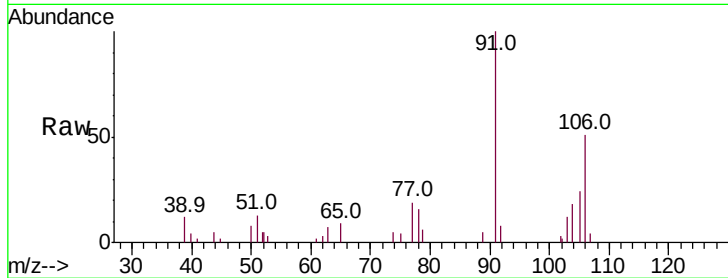
91 195.2 146.8 272.6

Manual Integrations

APPROVED

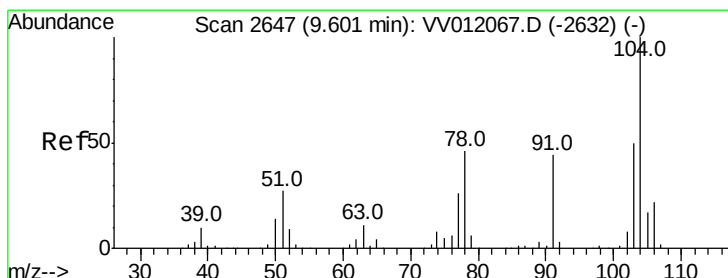
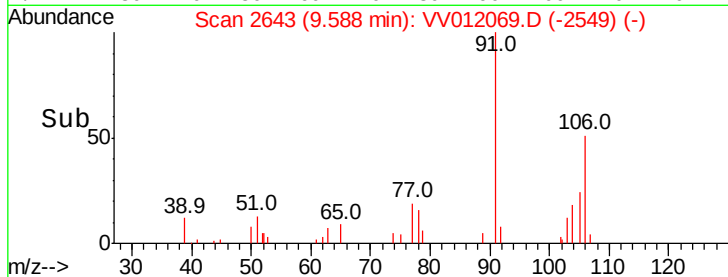
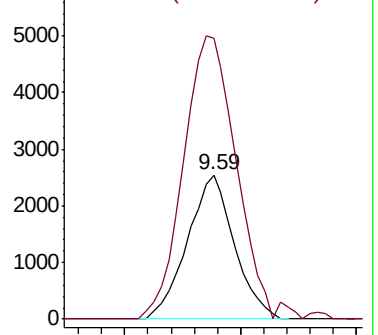
MMdadoda

8/1/2019 3:18:17 PM



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 0.225 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. -0.00 min

Lab File: VV012069.D

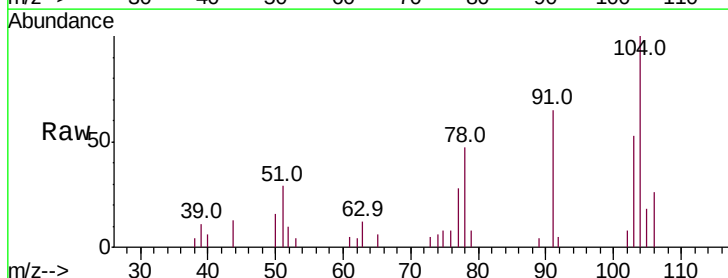
Acq: 30 Jul 2019 11:39

Tgt Ion:104 Resp: 5451

Ion Ratio Lower Upper

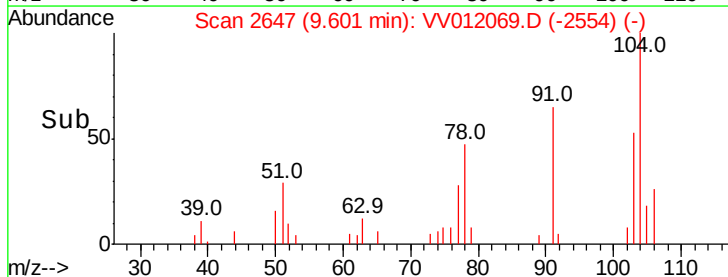
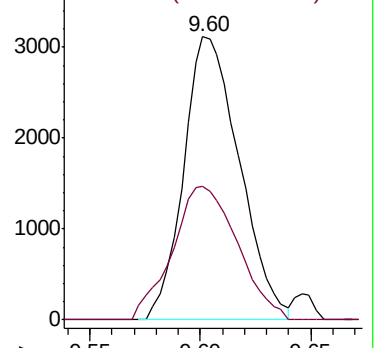
104 100

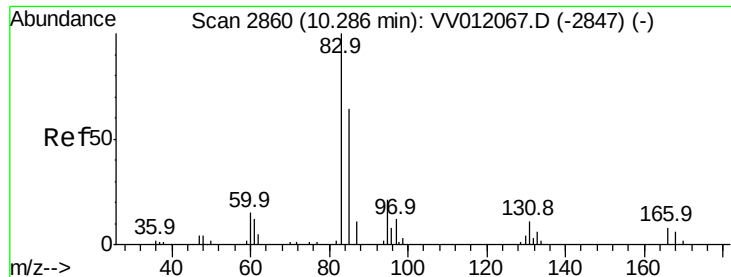
78 47.2 33.3 61.9



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#57

1,1,2,2-Tetrachloroethane

Concen: 0.289 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV012069.D

Acq: 30 Jul 2019 11:39

Instrument :

MSVOA_V

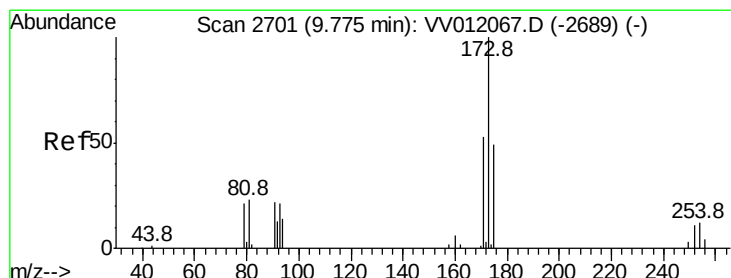
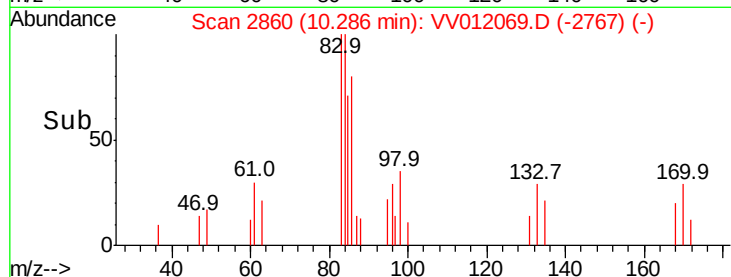
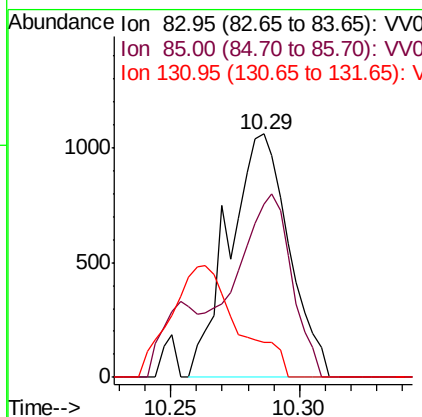
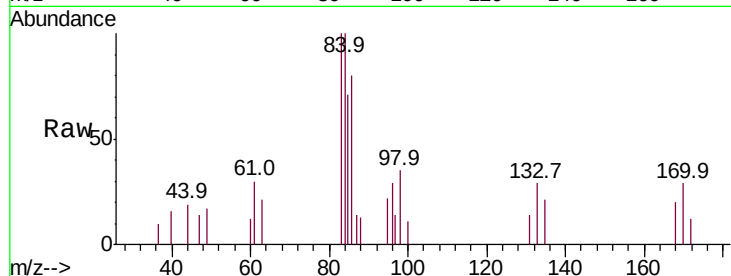
ClientSampled :

MDL03

Tot Ion:	83	Resp:	1719
Ion	Ratio	Lower	Upper
83	100		
85	71.0	44.0	81.6
131	14.1	8.3	12.5#

Manual Integrations
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#59

Bromoform

Concen: 0.303 ug/L

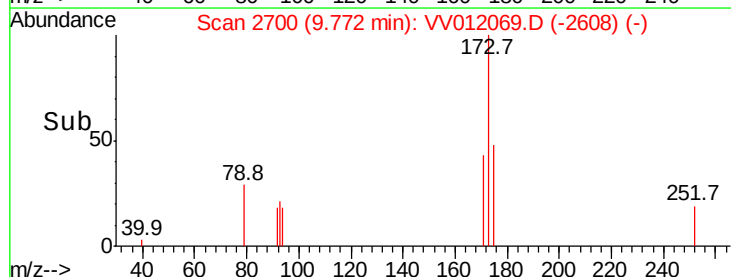
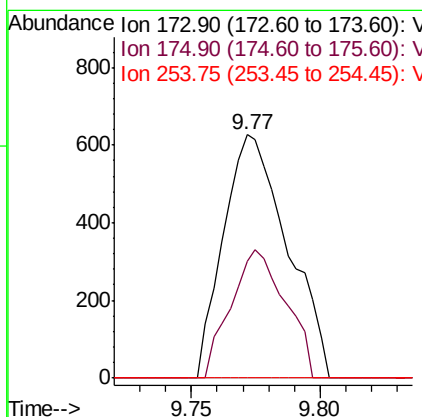
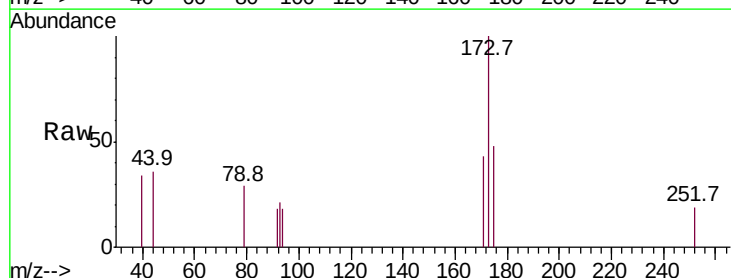
RT: 9.77 min Scan# 2700

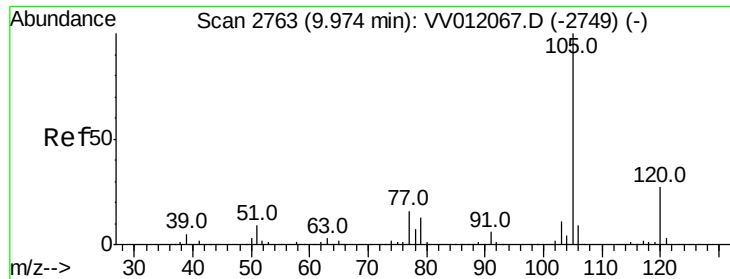
Delta R.T. -0.00 min

Lab File: VV012069.D

Acq: 30 Jul 2019 11:39

Tgt Ion:	173	Resp:	1081
Ion	Ratio	Lower	Upper
173	100		
175	45.2	38.3	57.5
254	0.0	8.6	13.0#





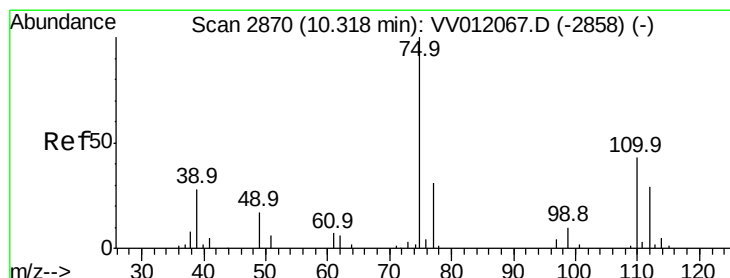
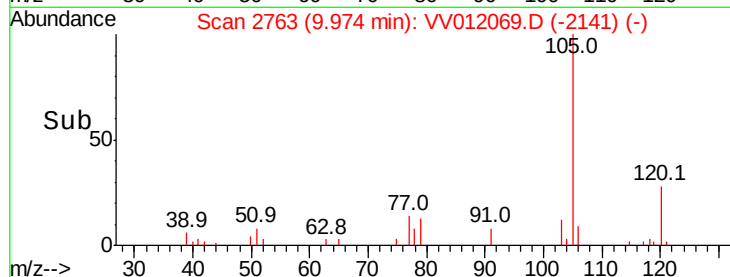
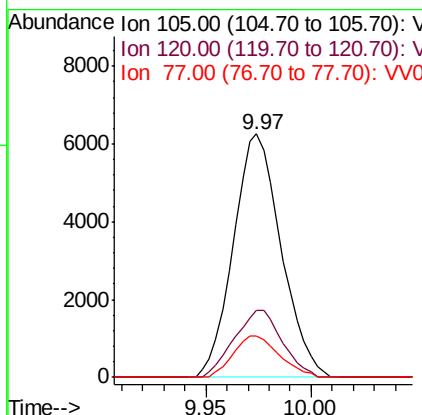
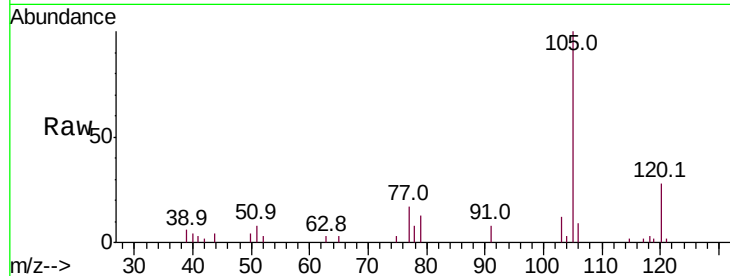
#60
Isopropylbenzene
Concen: 0.260 ug/L
RT: 9.97 min Scan# 2763
Delta R.T. -0.00 min
Lab File: VV012069.D
Acq: 30 Jul 2019 11:39

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
105	100		
120	27.5	21.5	32.3
77	16.4	12.3	18.5

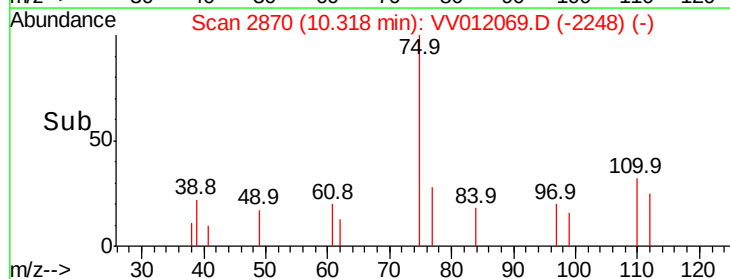
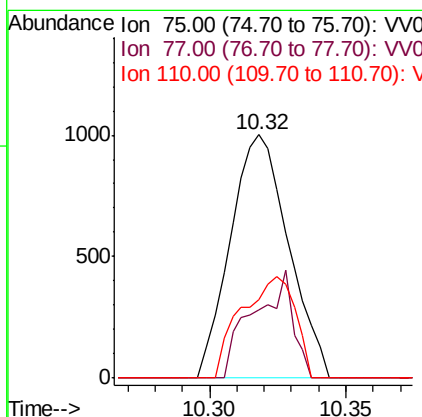
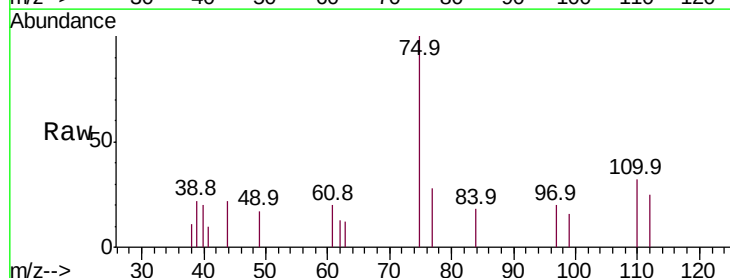
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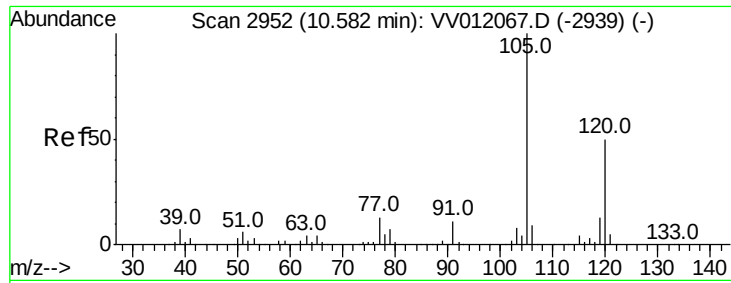
MMDadoda
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#61
1,2,3-Trichloropropane
Concen: 0.343 ug/L
RT: 10.32 min Scan# 2870
Delta R.T. -0.00 min
Lab File: VV012069.D
Acq: 30 Jul 2019 11:39

Tgt Ion	Ratio	Lower	Upper
75	100		
77	30.0	26.8	40.2
110	38.8	35.0	52.6





#62

1,3,5-Trimethylbenzene

Concen: 0.238 ug/L

RT: 10.58 min Scan# 2952

Delta R.T. -0.00 min

Lab File: VV012069.D

Acq: 30 Jul 2019 11:39

Instrument :

MSVOA_V

ClientSampled :

MDL03

Tot Ion:105 Resp: 7418

Ion Ratio Lower Upper

105 100

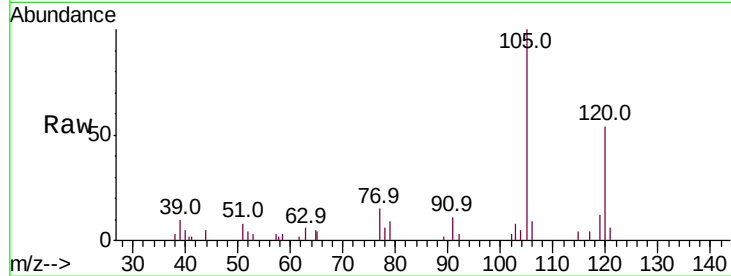
120 54.5 40.1 60.1

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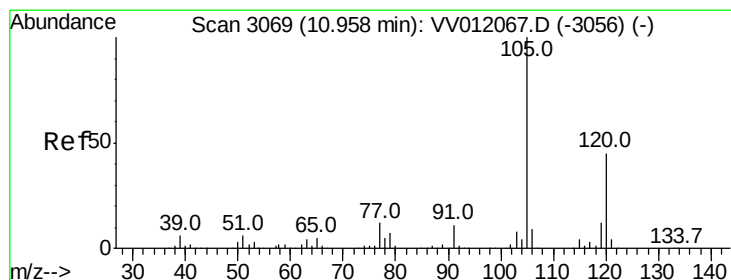
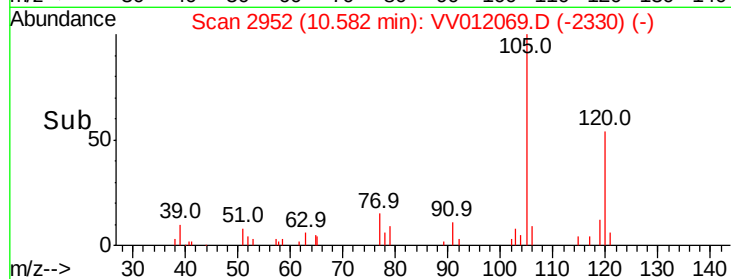
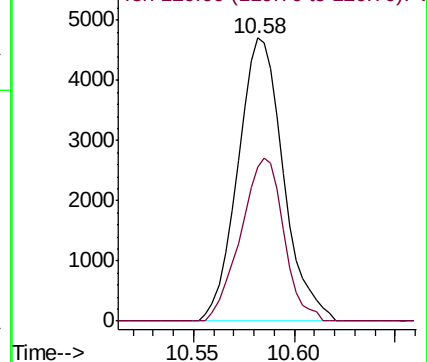
MMdadoda

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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: 0.256 ug/L

RT: 10.95 min Scan# 3068

Delta R.T. -0.00 min

Lab File: VV012069.D

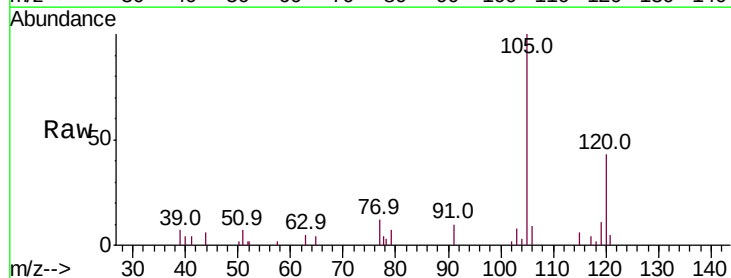
Acq: 30 Jul 2019 11:39

Tgt Ion:105 Resp: 7913

Ion Ratio Lower Upper

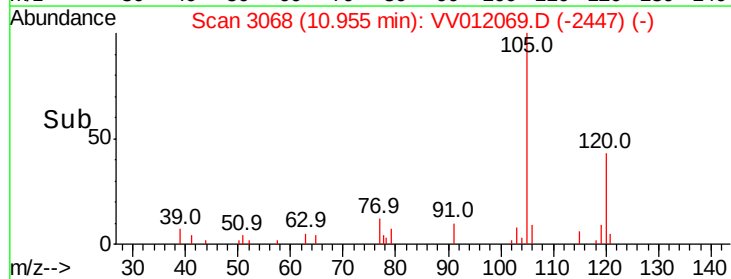
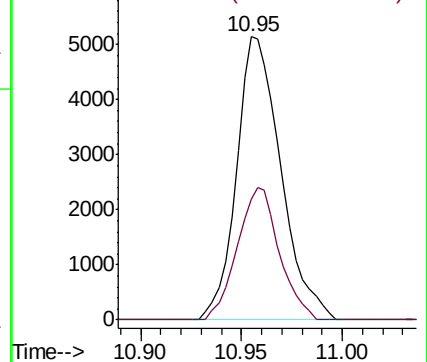
105 100

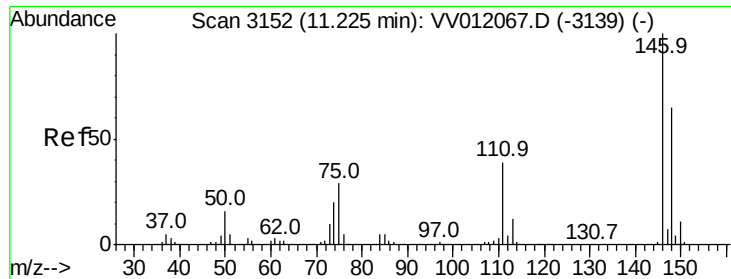
120 44.2 35.8 53.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#64

1,3-Dichlorobenzene

Concen: 0.284 ug/L

RT: 11.22 min Scan# 3152

Delta R.T. -0.00 min

Lab File: VV012069.D

Acq: 30 Jul 2019 11:39

Instrument :

MSVOA_V

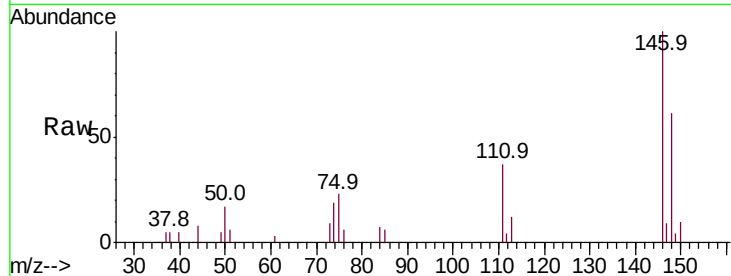
ClientSampled :

MDL03

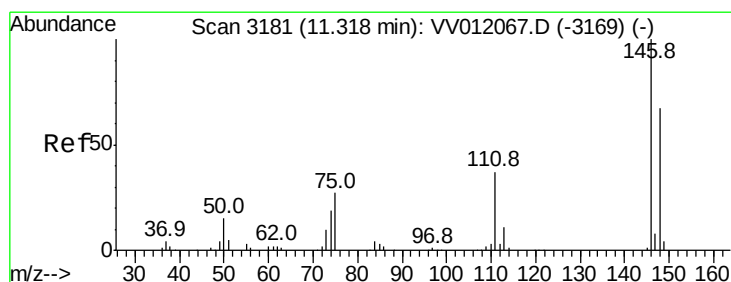
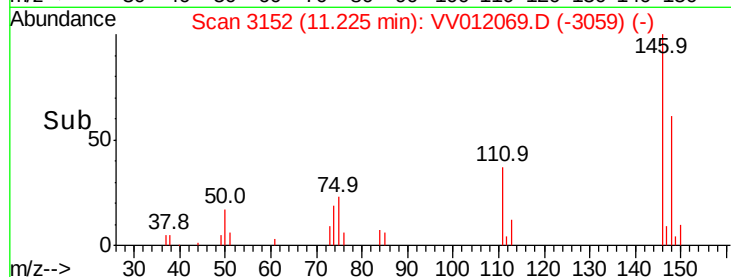
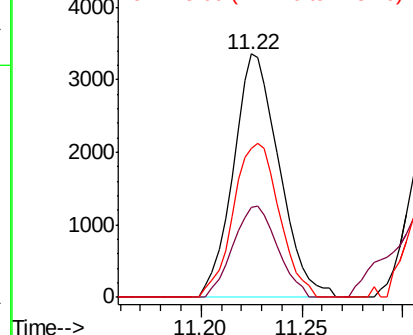
Tot Ion:	146	Resp:	5330
Ion	Ratio	Lower	Upper
146	100		
111	37.1	27.2	50.6
148	65.7	44.5	82.7

Manual Integrations
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Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



#65

1,4-Dichlorobenzene

Concen: 0.287 ug/L

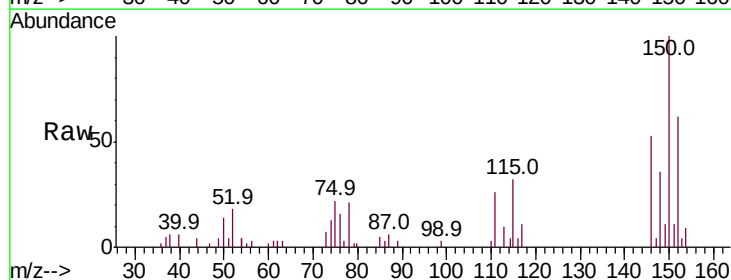
RT: 11.32 min Scan# 3181

Delta R.T. -0.00 min

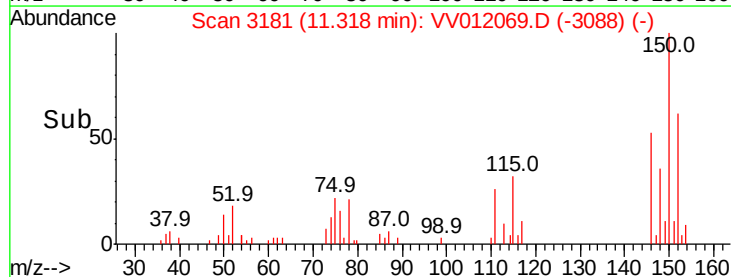
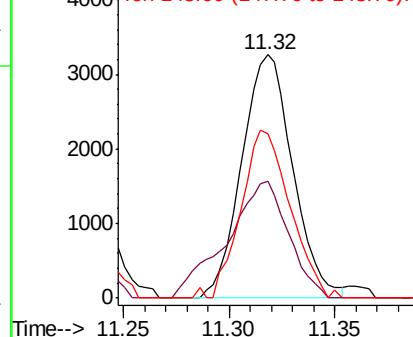
Lab File: VV012069.D

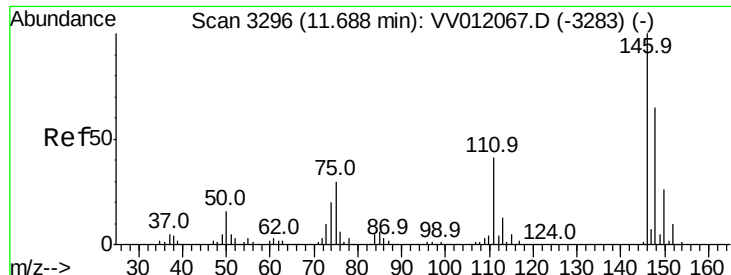
Acq: 30 Jul 2019 11:39

Tgt Ion:	146	Resp:	5494
Ion	Ratio	Lower	Upper
146	100		
111	48.1	25.8	48.0#
148	67.2	43.8	81.3



Abundance Ion 145.95 (145.65 to 146.65): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V





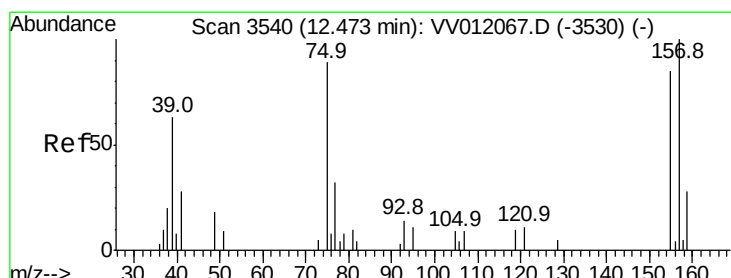
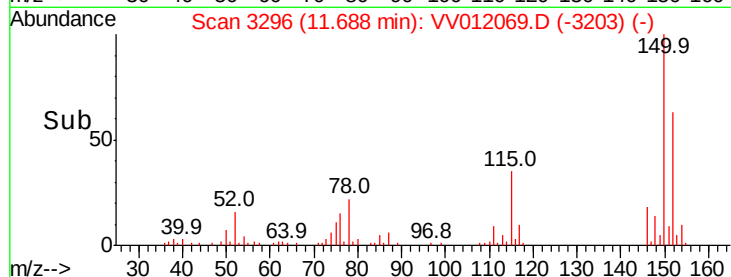
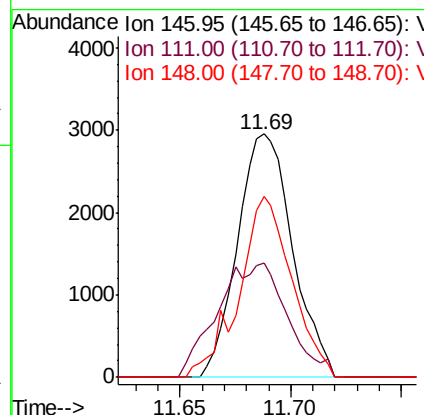
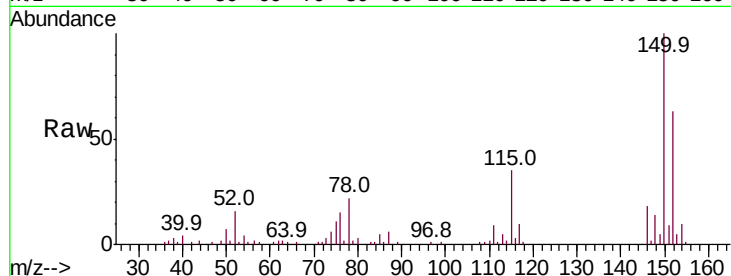
#67
 1,2-Dichlorobenzene
 Concen: 0.299 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. -0.00 min
 Lab File: VV012069.D
 Acq: 30 Jul 2019 11:39

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.9	32.4	48.6
148	74.3	49.4	74.0#

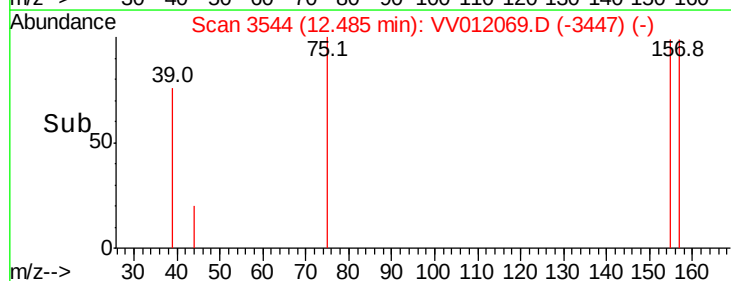
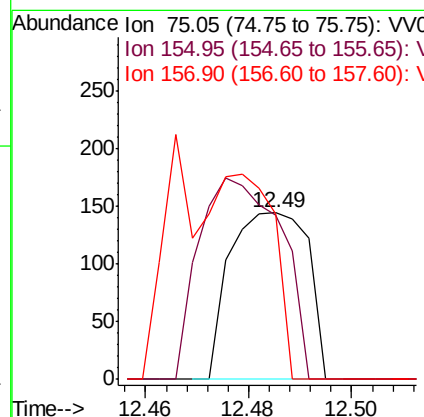
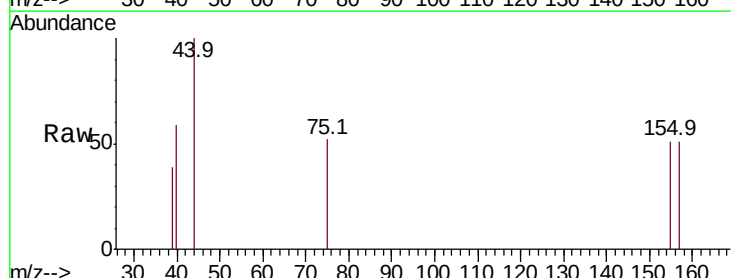
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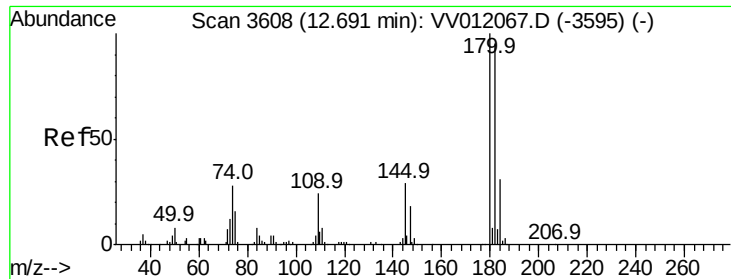
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 0.170 ug/L
 RT: 12.49 min Scan# 3544
 Delta R.T. 0.01 min
 Lab File: VV012069.D
 Acq: 30 Jul 2019 11:39

Tgt Ion	Ratio	Lower	Upper
75	100		
155	98.6	75.0	112.6
157	99.3	87.8	131.6





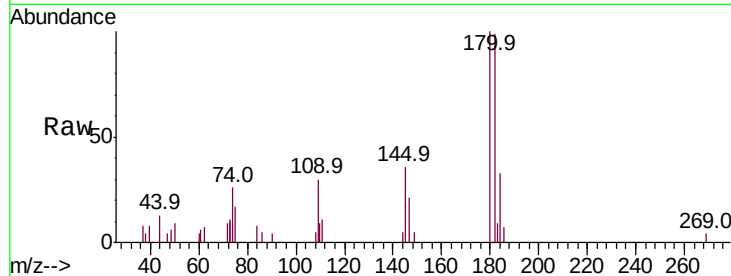
#69
 1,3,5-Trichlorobenzene
 Concen: 0.263 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV012069.D
 Acq: 30 Jul 2019 11:39

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.9	77.1	115.7
184	34.1	24.6	36.8
145	36.0	22.8	34.2

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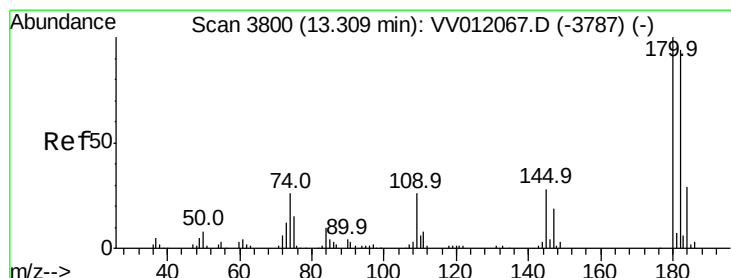
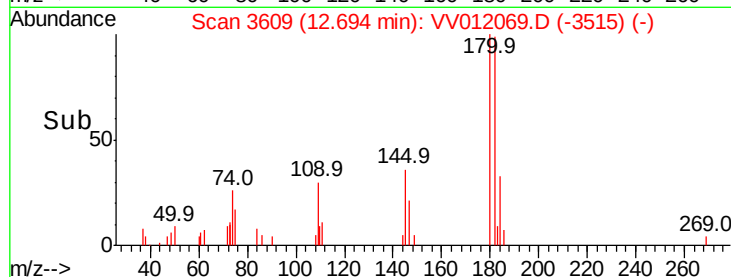
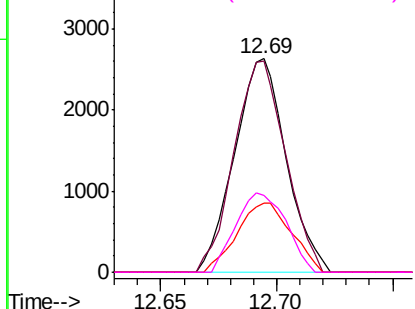
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

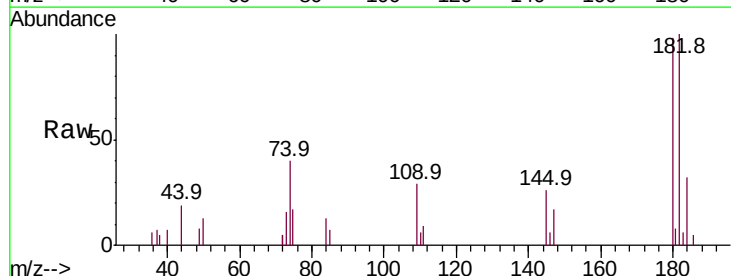
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#70
 1,2,4-trichlorobenzene
 Concen: 0.259 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV012069.D
 Acq: 30 Jul 2019 11:39

Tgt Ion	Ratio	Lower	Upper
180	100		
182	107.4	76.1	114.1
145	29.9	24.3	36.5

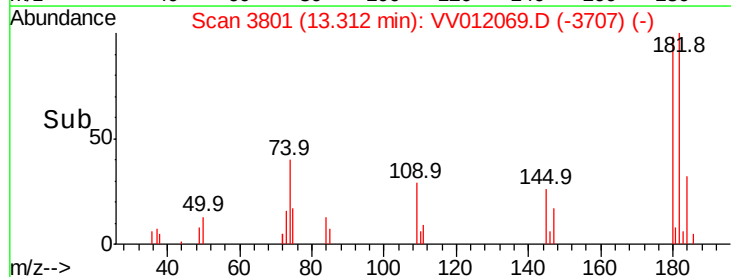
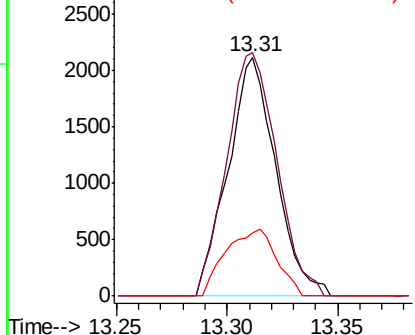


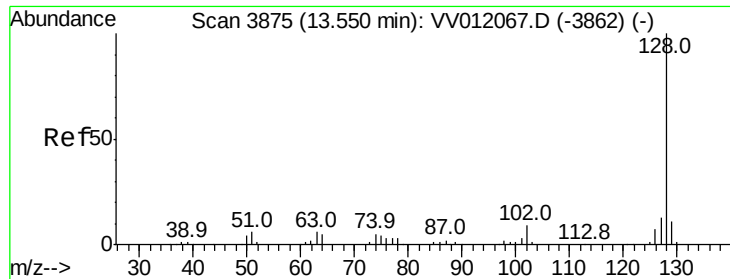
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





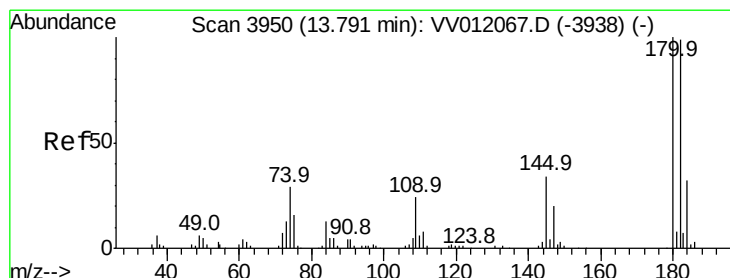
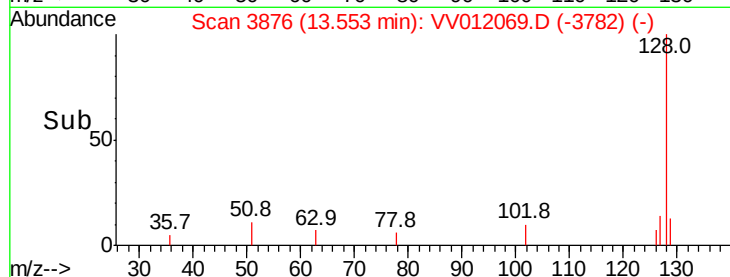
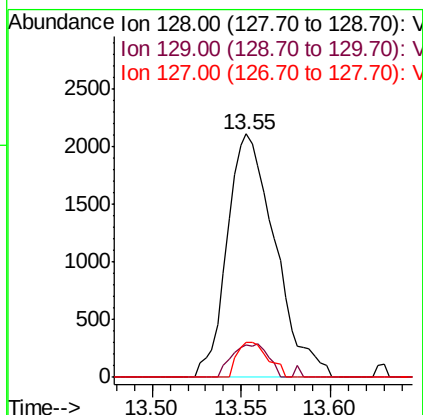
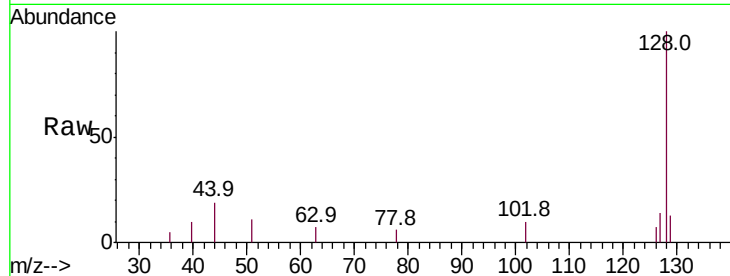
#71
Naphthalene
Concen: 0.232 ug/L
RT: 13.55 min Scan# 3876
Delta R.T. 0.00 min
Lab File: VV012069.D
Acq: 30 Jul 2019 11:39

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
128	100		
129	6.3	9.1	13.7#
127	9.3	10.4	15.6#

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#72
1,2,3-Trichlorobenzene
Concen: 0.257 ug/L
RT: 13.79 min Scan# 3951
Delta R.T. 0.00 min
Lab File: VV012069.D
Acq: 30 Jul 2019 11:39

Tgt Ion	Ratio	Lower	Upper
180	100		
182	99.3	78.5	117.7
145	32.7	25.8	38.8

