

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV093019\
 Data File : VV013019.D
 Acq On : 30 Sep 2019 15:51
 Operator : SY/MD
 Sample : MDL01
 Misc : 5.00G/10ML/MSVOA V/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Manual Integrations
 APPROVED

MMDadoda
 10/9/2019 3:10:17 PM

Quant Time: Oct 02 08:45:11 2019

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SFAMVLM093019SMA.M

Quant Title : VOC Analysis

QLast Update : Mon Sep 30 15:00:00 2019

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	821847	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	803155	25.00	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.29	152	416412	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	272072	23.14	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	92.56%
7) Chloroethane-d5	1.58	69	221594	22.48	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	89.92%
11) 1,1-Dichloroethene-d2	2.13	63	372473	18.40	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	73.60%
21) 2-Butanone-d5	3.94	46	184350	44.41	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	88.82%
24) Chloroform-d	4.40	84	492779	22.26	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	89.04%
26) 1,2-Dichloroethane-d4	5.08	65	288291	22.89	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	91.56%
32) Benzene-d6	5.09	84	1039860	23.47	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	93.88%
36) 1,2-Dichloropropane-d6	6.11	67	325457	23.43	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	93.72%
41) Toluene-d8	7.36	98	958097	23.68	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	94.72%
43) trans-1,3-Dichloropropene-	7.66	79	131710	22.60	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	90.40%
47) 2-Hexanone-d5	8.13	63	128019	43.72	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	87.44%
56) 1,1,2,2-Tetrachloroethane-	10.26	84	284111	21.87	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	87.48%
66) 1,2-Dichlorobenzene-d4	11.67	152	377220	23.49	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	93.96%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	13929	1.582 ug/L	99
3) Chloromethane	1.25	50	19906	1.776 ug/L	99
5) Vinyl chloride	1.32	62	22308	1.931 ug/L #	81
6) Bromomethane	1.53	94	13491	1.818 ug/L	99
8) Chloroethane	1.60	64	14033	1.922 ug/L	96
9) Trichlorofluoromethane	1.77	101	32060	2.049 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	23174	2.311 ug/L	88
12) 1,1-Dichloroethene	2.14	96	21843	2.319 ug/L #	1
13) Acetone	2.20	43	20646	4.719 ug/L	96
14) Carbon disulfide	2.32	76	54810	1.896 ug/L	99
15) Methyl Acetate	2.46	43	11857	1.756 ug/L	99
16) Methylene chloride	2.53	84	38870	2.888 ug/L	98
17) trans-1,2-Dichloroethene	2.79	96	21986	1.980 ug/L	97
18) Methyl tert-butyl Ether	2.80	73	52999	1.898 ug/L	98
19) 1,1-Dichloroethane	3.23	63	41466	2.035 ug/L	99
20) cis-1,2-Dichloroethene	3.96	96	23937	1.938 ug/L	90
22) 2-Butanone	4.03	43	18501m	3.858 ug/L	

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 QLast Update : Mon Sep 30 15:00:00 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.30	128	11444	1.890	ug/L	97
25) Chloroform	4.42	83	48695	2.292	ug/L	98
27) 1,2-Dichloroethane	5.18	62	29647	2.030	ug/L	99
29) Cyclohexane	4.72	56	34299	1.940	ug/L	95
30) 1,1,1-Trichloroethane	4.65	97	32699	1.993	ug/L	98
31) Carbon tetrachloride	4.87	117	29375	1.989	ug/L	99
33) Benzene	5.14	78	94456	2.057	ug/L	100
34) Trichloroethene	5.96	95	25593	2.057	ug/L	94
35) Methylcyclohexane	6.17	83	36329	1.861	ug/L	98
37) 1,2-Dichloropropane	6.22	63	23970	2.034	ug/L #	97
38) Bromodichloromethane	6.55	83	30249	1.967	ug/L	97
39) cis-1,3-Dichloropropene	7.07	75	33167	1.870	ug/L	99
40) 4-Methyl-2-pentanone	7.27	43	35464	3.766	ug/L	98
42) Toluene	7.43	91	102984	2.109	ug/L	96
44) trans-1,3-Dichloropropene	7.69	75	27890m	1.915	ug/L	
45) 1,1,2-Trichloroethane	7.88	97	19985	2.000	ug/L	97
46) Tetrachloroethene	8.02	164	21556	2.094	ug/L	96
48) 2-Hexanone	8.19	43	26866	3.919	ug/L #	94
49) Dibromochloromethane	8.29	129	21803	1.913	ug/L	100
50) 1,2-Dibromoethane	8.39	107	18134	1.839	ug/L	90
51) Chlorobenzene	8.92	112	66619	2.011	ug/L	97
52) Ethylbenzene	9.05	91	101202	1.886	ug/L	97
53) m,p-Xylene	9.18	106	37397	1.824	ug/L	92
54) o-Xylene	9.59	106	35140	1.791	ug/L	91
55) Styrene	9.60	104	57236	1.666	ug/L	96
57) 1,1,2,2-Tetrachloroethane	10.28	83	24720	2.028	ug/L	98
59) Bromoform	9.77	173	13180	1.848	ug/L	97
60) Isopropylbenzene	9.97	105	89838	1.790	ug/L	99
61) 1,2,3-Trichloropropane	10.32	75	19288	2.035	ug/L	97
62) 1,3,5-Trimethylbenzene	10.58	105	68310	1.689	ug/L	100
63) 1,2,4-Trimethylbenzene	10.95	105	67127	1.653	ug/L	100
64) 1,3-Dichlorobenzene	11.22	146	53054	2.014	ug/L	99
65) 1,4-Dichlorobenzene	11.31	146	57903	2.093	ug/L	100
67) 1,2-Dichlorobenzene	11.68	146	52570	2.090	ug/L	94
68) 1,2-Dibromo-3-chloropropan	12.47	75	3760	1.829	ug/L	96
69) 1,3,5-Trichlorobenzene	12.69	180	43035	2.029	ug/L	100
70) 1,2,4-trichlorobenzene	13.31	180	34489	1.881	ug/L	99
71) Naphthalene	13.55	128	57218	1.602	ug/L	99
72) 1,2,3-Trichlorobenzene	13.79	180	34463	1.948	ug/L	97

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

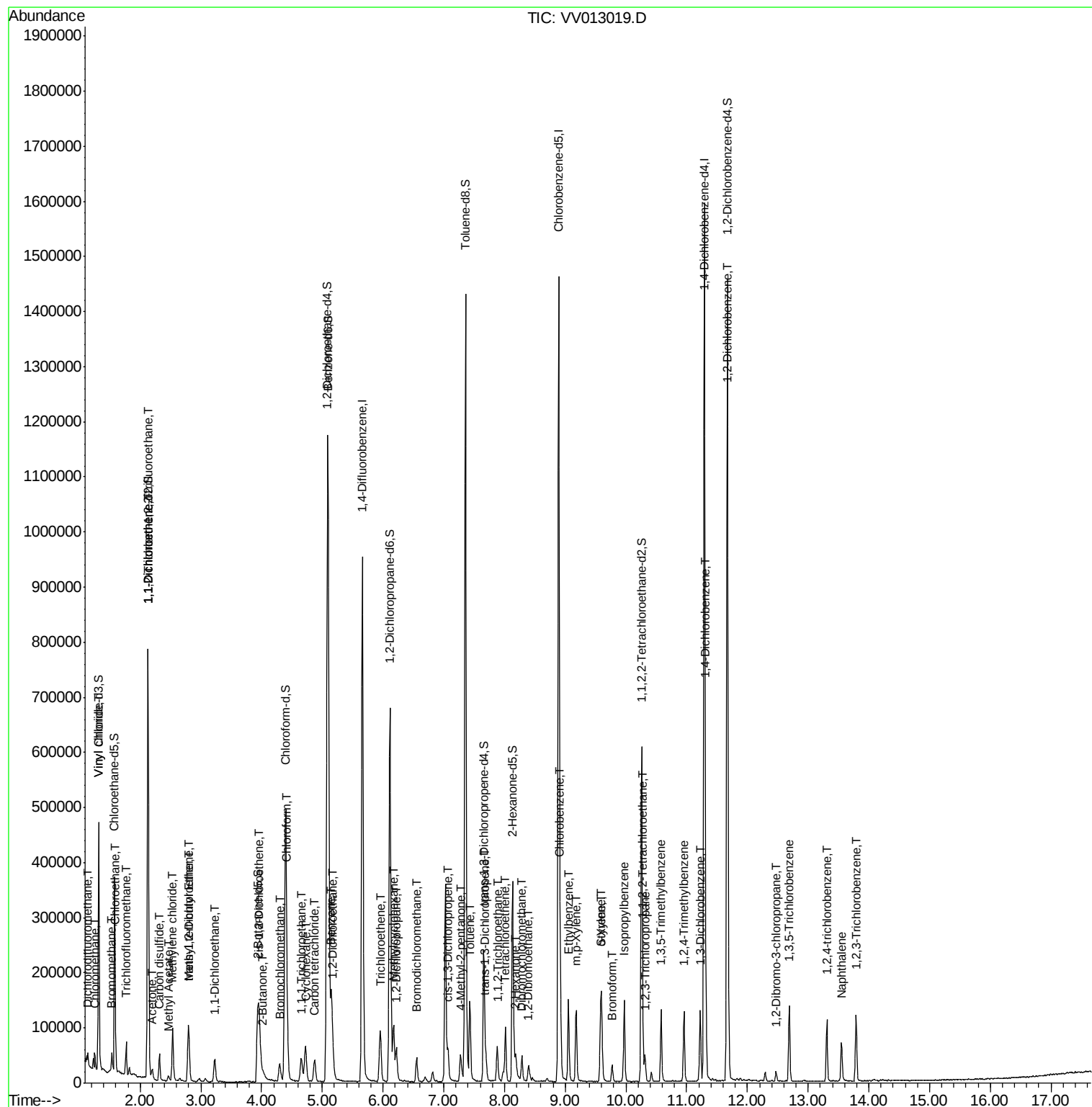
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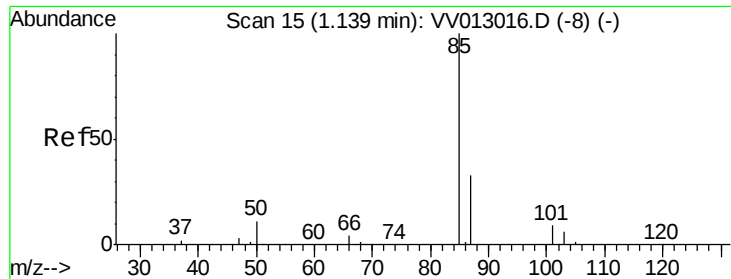
Instrument :
MSVOA_V
ClientSampleId :
MDL01

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#2

Dichlorodifluoromethane

Concen: 1.582 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 15:51

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion: 85 Resp: 13929

Ion Ratio Lower Upper

85 100

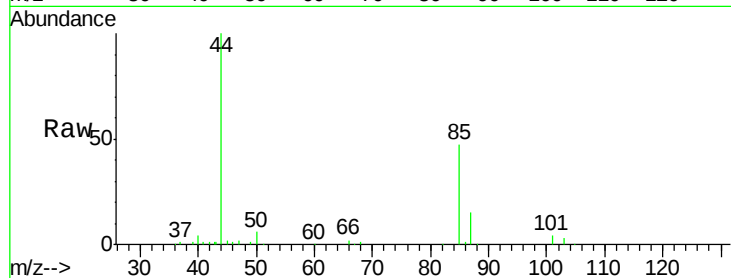
87 31.7 25.7 38.5

Manual Integrations

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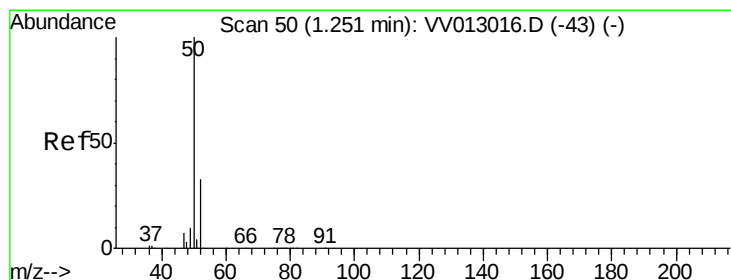
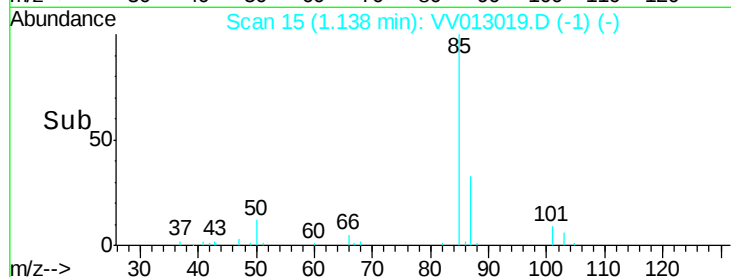
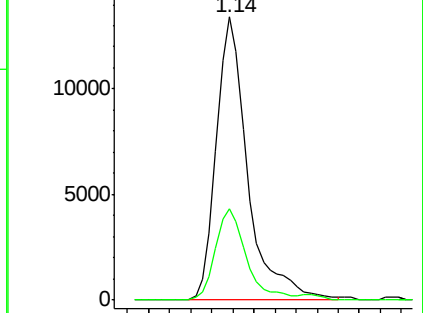
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Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 1.776 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV013019.D

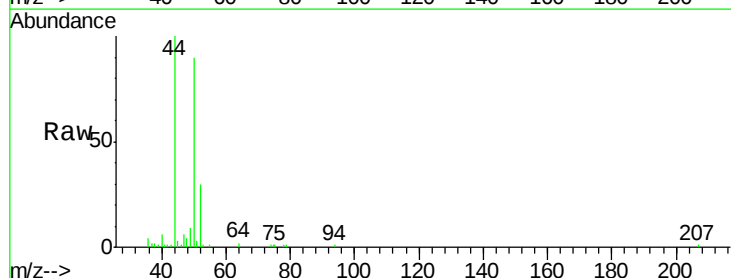
Acq: 30 Sep 2019 15:51

Tgt Ion: 50 Resp: 19906

Ion Ratio Lower Upper

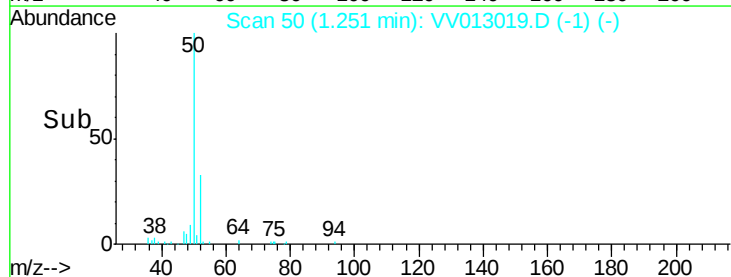
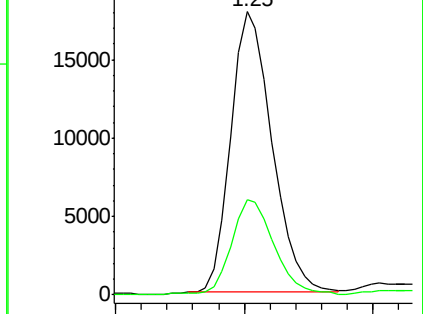
50 100

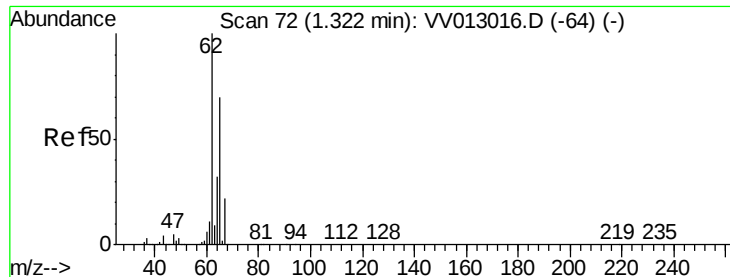
52 33.5 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 1.931 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 15:51

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion: 62 Resp: 22308

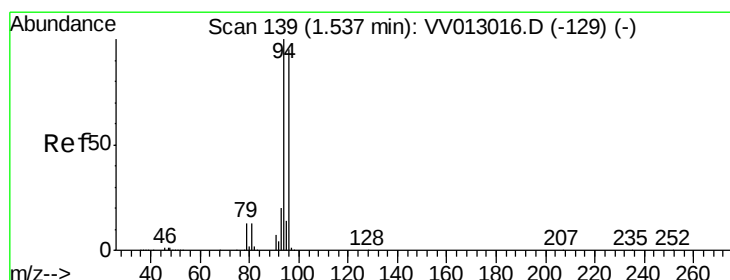
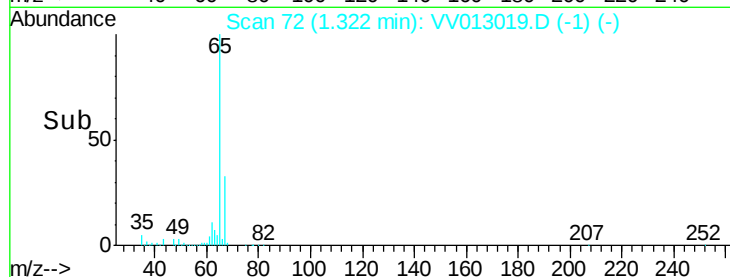
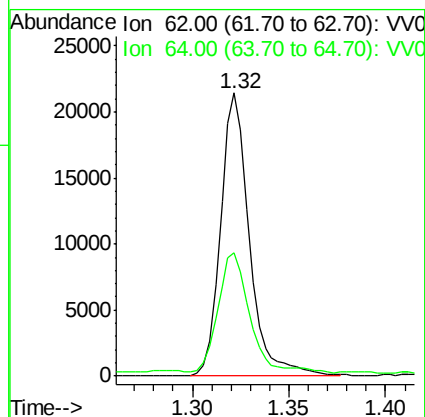
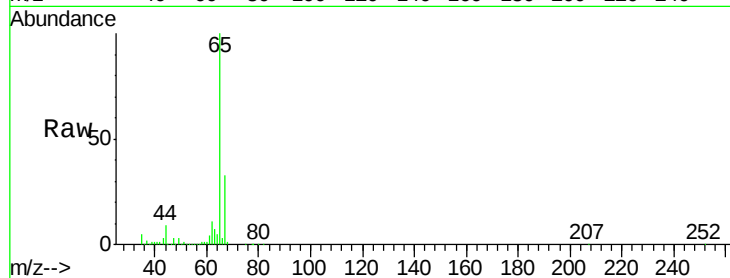
Ion Ratio Lower Upper

62 100

64 43.7 23.1 42.9#

Manual Integrations
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#6

Bromomethane

Concen: 1.818 ug/L

RT: 1.53 min Scan# 138

Delta R.T. -0.00 min

Lab File: VV013019.D

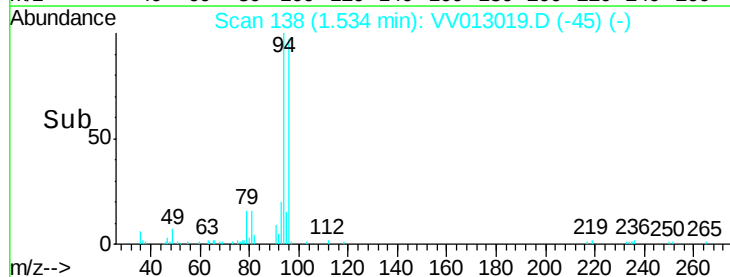
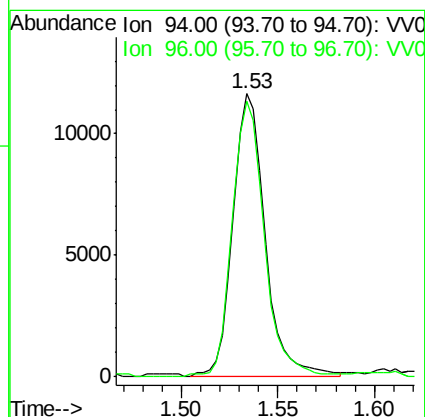
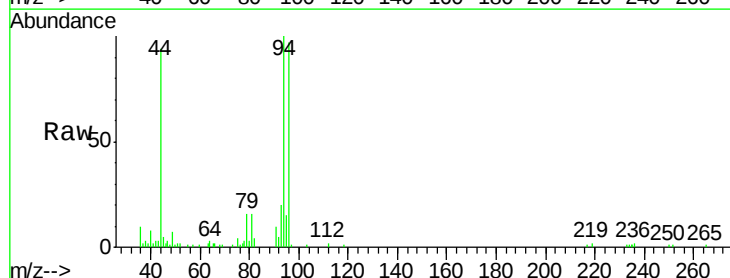
Acq: 30 Sep 2019 15:51

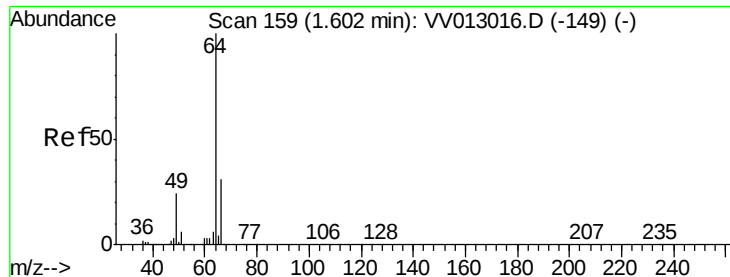
Tgt Ion: 94 Resp: 13491

Ion Ratio Lower Upper

94 100

96 97.2 67.4 125.2





#8

Chloroethane

Concen: 1.922 ug/L

RT: 1.60 min Scan# 158

Delta R.T. -0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 15:51

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion: 64 Resp: 14033

Ion Ratio Lower Upper

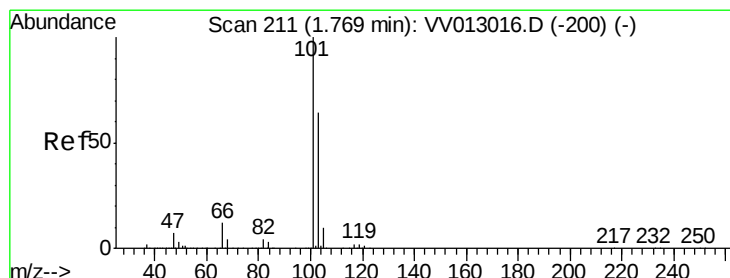
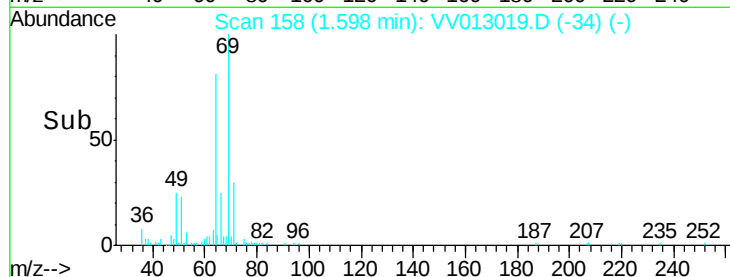
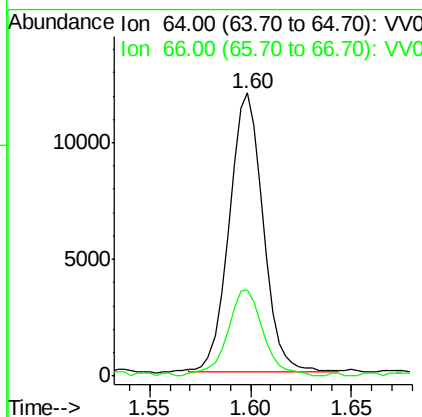
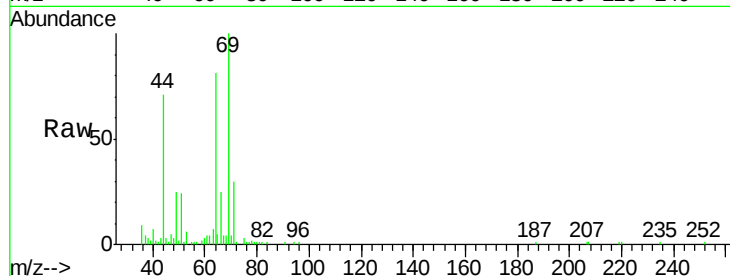
64 100

66 30.5 22.8 42.4

Manual Integrations
APPROVED

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10/9/2019 3:10:17 PM



#9

Trichlorofluoromethane

Concen: 2.049 ug/L

RT: 1.77 min Scan# 211

Delta R.T. -0.00 min

Lab File: VV013019.D

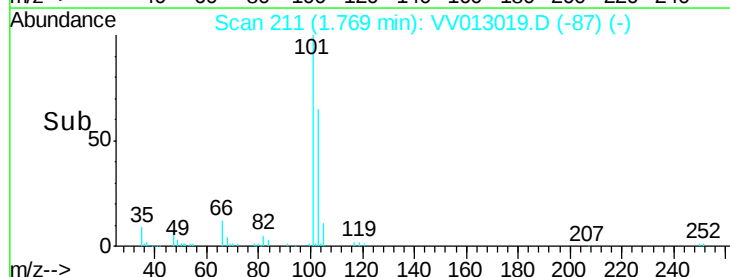
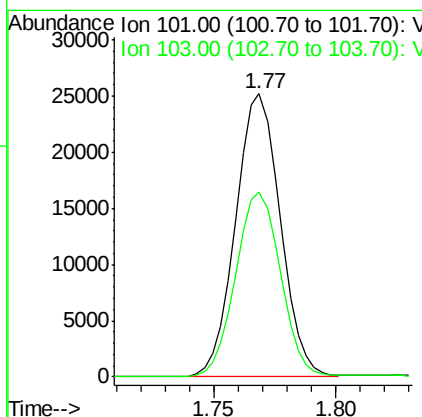
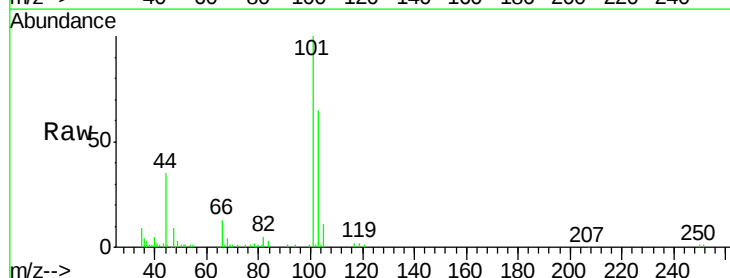
Acq: 30 Sep 2019 15:51

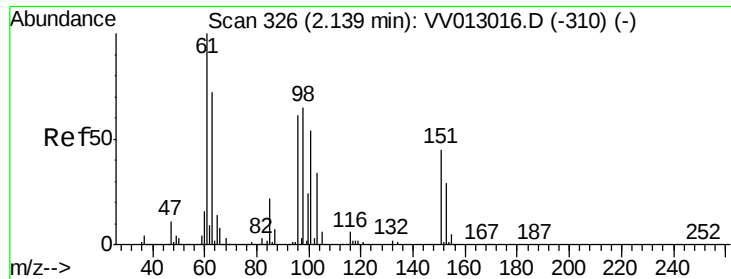
Tgt Ion: 101 Resp: 32060

Ion Ratio Lower Upper

101 100

103 65.8 52.2 78.2





#10

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

Concen: 2.311 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 15:51

Instrument :

MSVOA_V

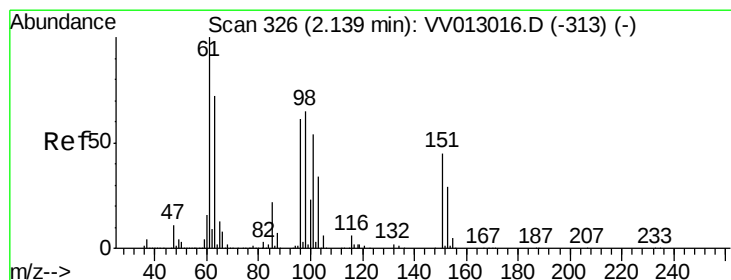
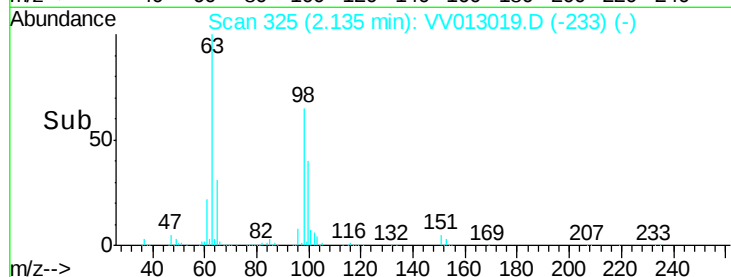
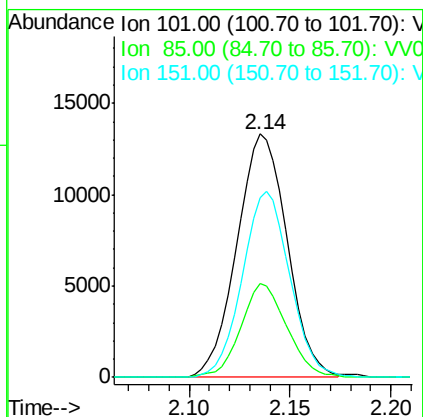
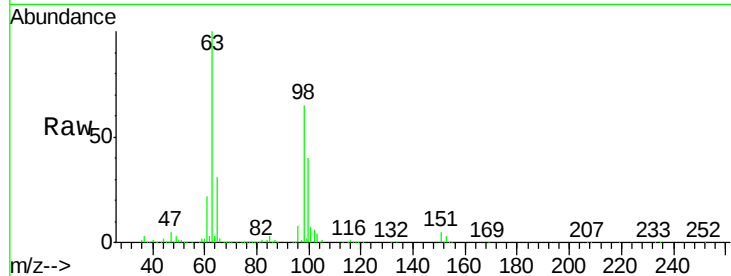
ClientSampleId :

MDL01

Tot Ion:	101	Resp:	23174
Ion Ratio	Lower	Upper	
101	100		
85	35.4	33.6	50.4
151	72.5	66.9	100.3

Manual Integrations
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10/9/2019 3:10:17 PM



#12

1,1-Dichloroethene

Concen: 2.319 ug/L

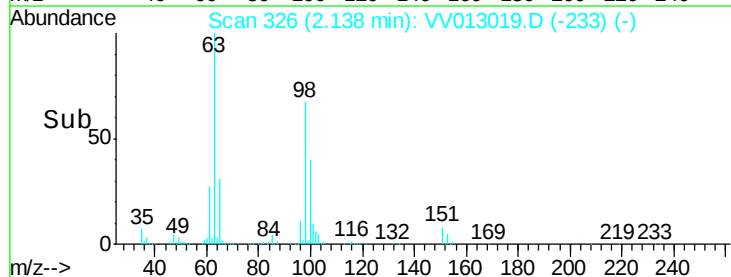
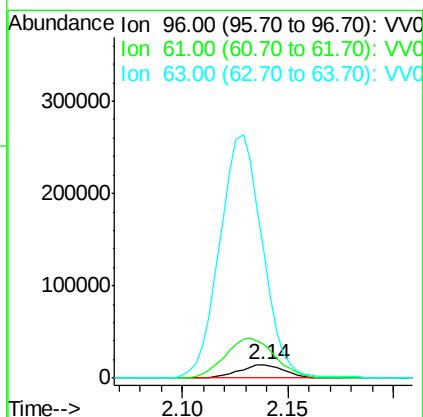
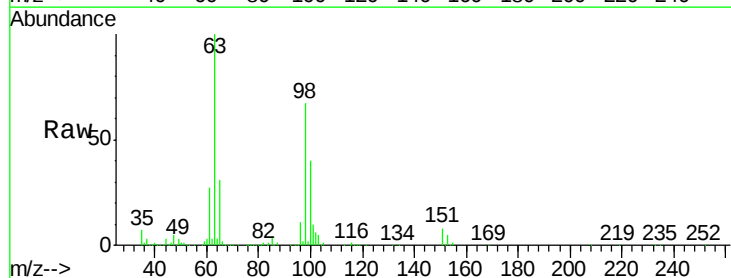
RT: 2.14 min Scan# 326

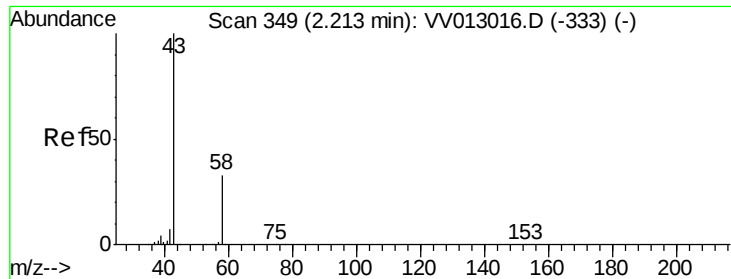
Delta R.T. -0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 15:51

Tgt Ion:	96	Resp:	21843
Ion Ratio	Lower	Upper	
96	100		
61	244.2	117.7	218.7#
63	918.5	90.4	168.0#





#13

Acetone

Concen: 4.719 ug/L

RT: 2.20 min Scan# 344

Delta R.T. -0.01 min

Lab File: VV013019.D

Acq: 30 Sep 2019 15:51

Instrument :

MSVOA_V

ClientSampled :

MDL01

Tot Ion: 43 Resp: 20646

Ion Ratio Lower Upper

43 100

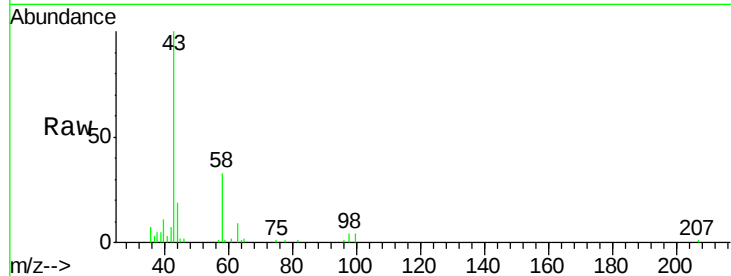
58 34.8 0.0 65.2

Manual Integrations

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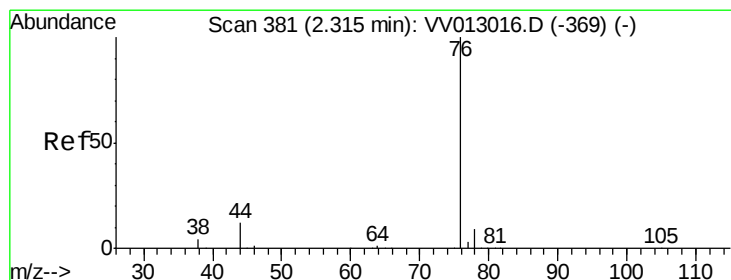
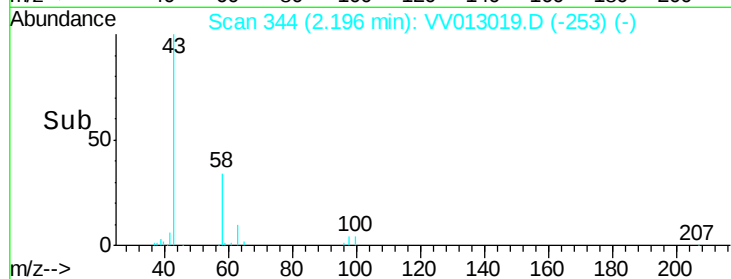
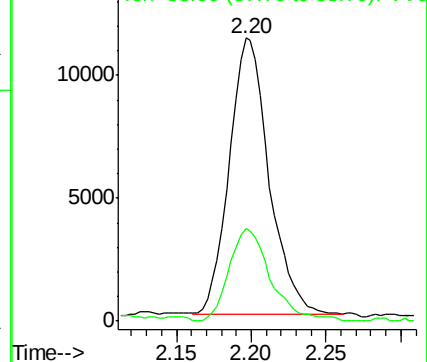
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10/9/2019 3:10:17 PM



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0



#14

Carbon disulfide

Concen: 1.896 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VV013019.D

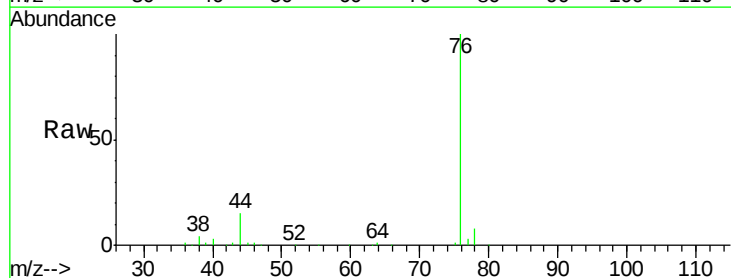
Acq: 30 Sep 2019 15:51

Tgt Ion: 76 Resp: 54810

Ion Ratio Lower Upper

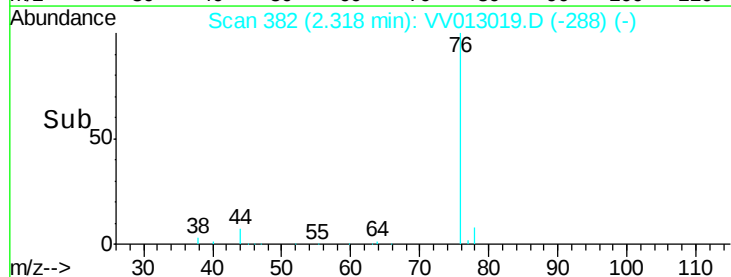
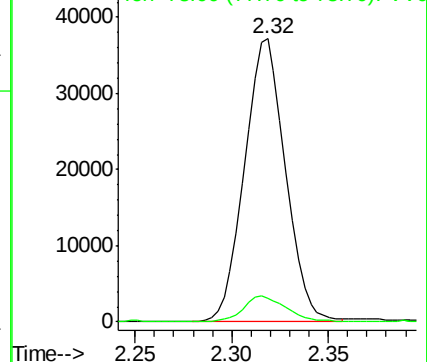
76 100

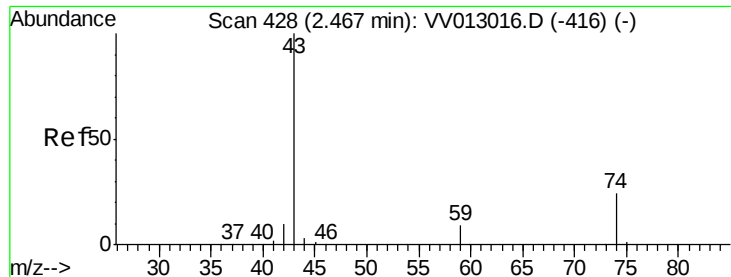
78 8.5 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0





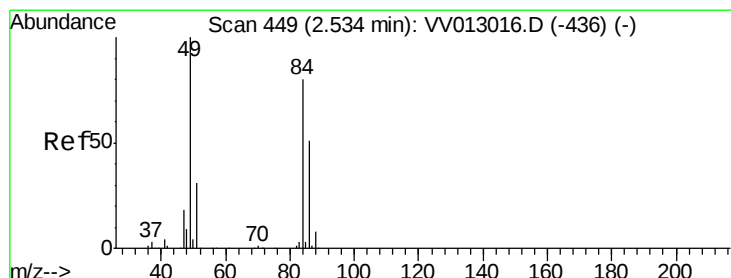
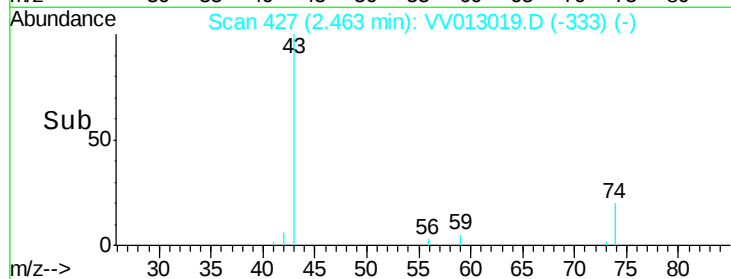
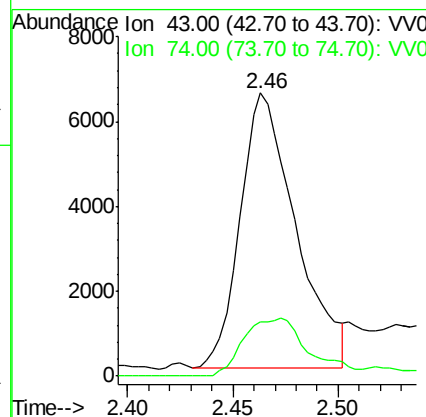
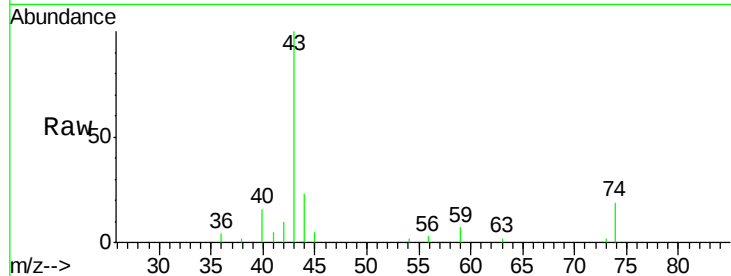
#15
Methvl Acetate
Concen: 1.756 ug/L
RT: 2.46 min Scan# 427
Delta R.T. 0.00 min
Lab File: VV013019.D
Acq: 30 Sep 2019 15:51

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tot Ion: 43 Resp: 11857
Ion Ratio Lower Upper
43 100
74 22.6 18.5 27.7

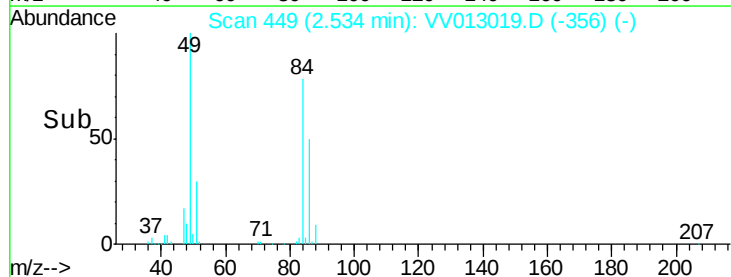
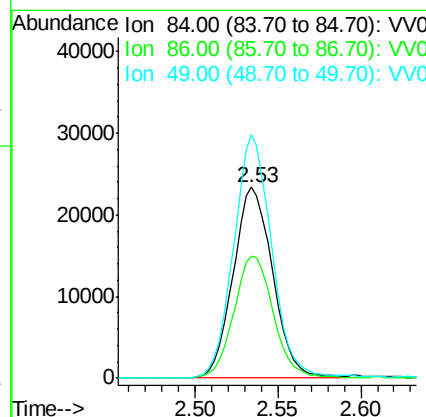
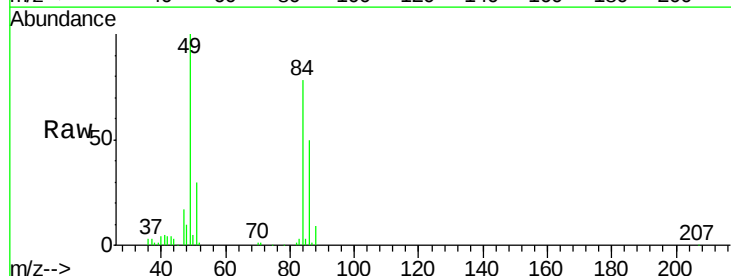
Manual Integrations
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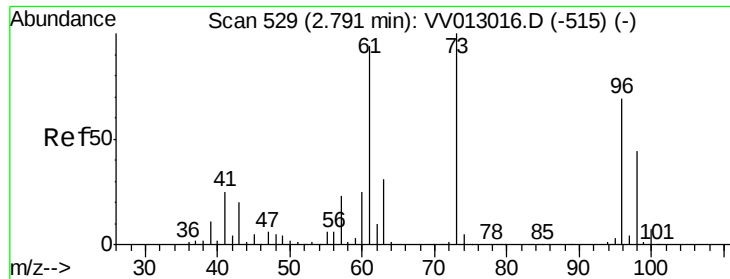
MMDadoda
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#16
Methylene chloride
Concen: 2.888 ug/L
RT: 2.53 min Scan# 449
Delta R.T. -0.00 min
Lab File: VV013019.D
Acq: 30 Sep 2019 15:51

Tgt Ion: 84 Resp: 38870
Ion Ratio Lower Upper
84 100
86 64.2 44.5 82.7
49 127.5 87.5 162.5





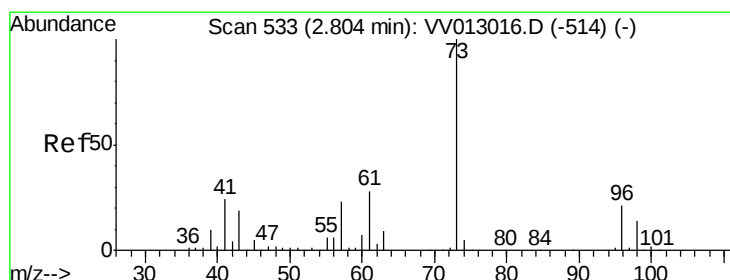
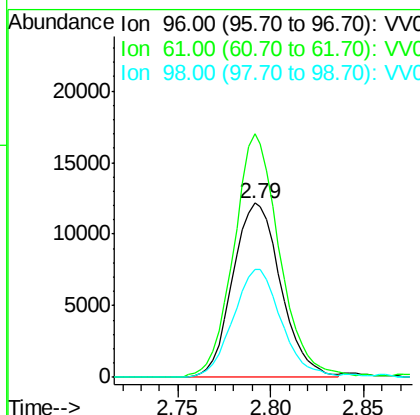
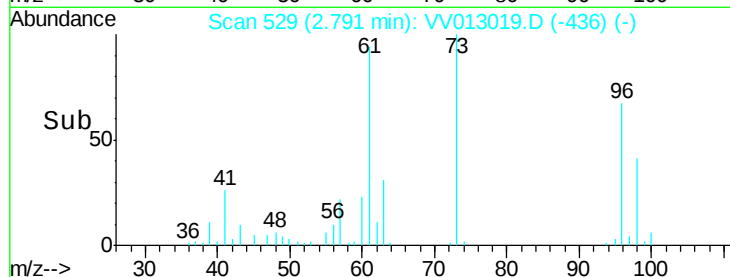
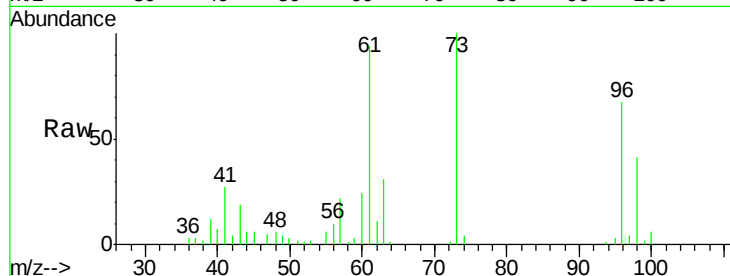
#17
trans-1,2-Dichloroethene
Concen: 1.980 ug/L
RT: 2.79 min Scan# 529
Delta R.T. -0.00 min
Lab File: VV013019.D
Acq: 30 Sep 2019 15:51

Instrument :
MSVOA_V
ClientSampled :
MDL01

Tot Ion	Ratio	Lower	Upper
96	100		
61	140.0	95.8	177.8
98	62.0	45.1	83.7

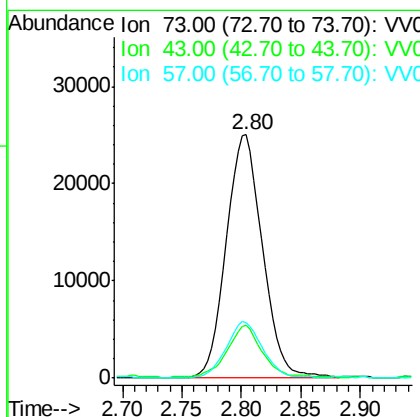
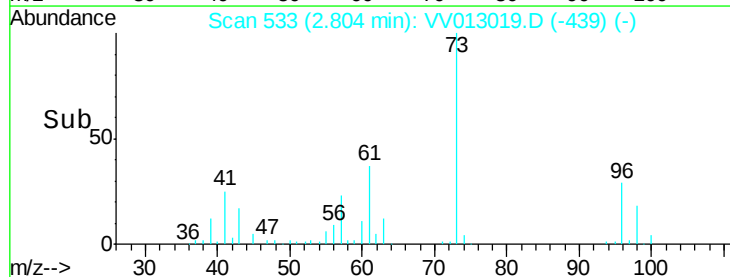
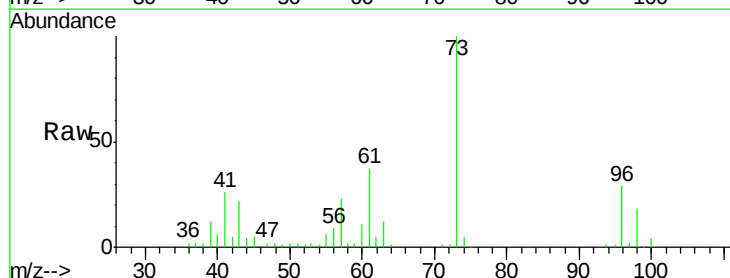
Manual Integrations
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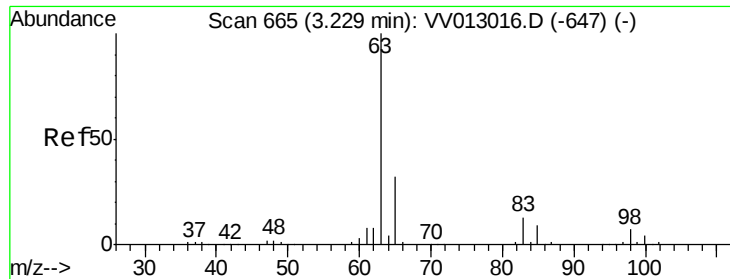
MMDadoda
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#18
Methyl tert-butyl Ether
Concen: 1.898 ug/L
RT: 2.80 min Scan# 533
Delta R.T. 0.00 min
Lab File: VV013019.D
Acq: 30 Sep 2019 15:51

Tgt Ion	Ratio	Lower	Upper
73	100		
43	19.9	15.1	22.7
57	23.0	18.1	27.1





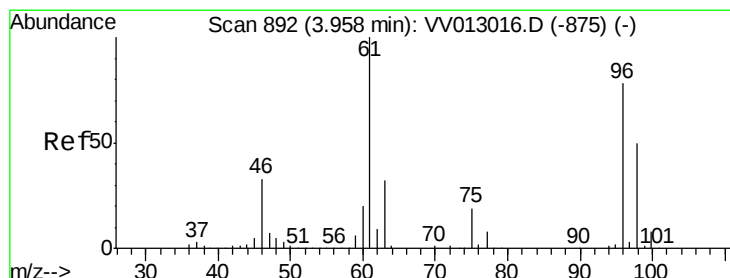
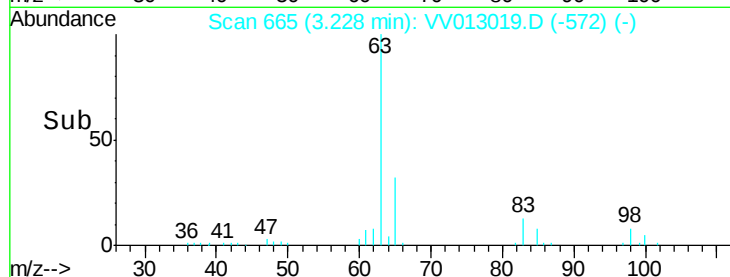
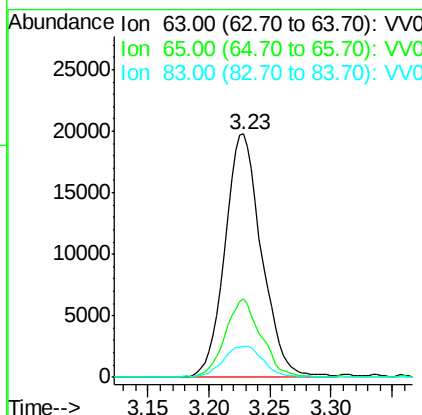
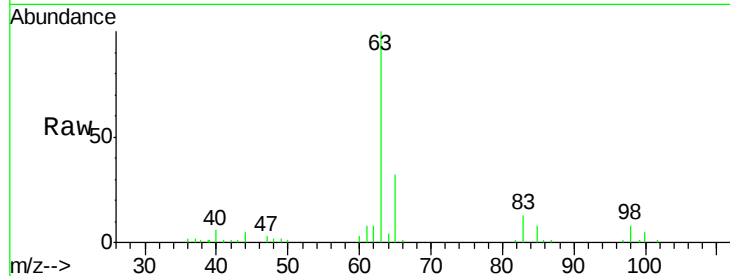
#19
1,1-Dichloroethane
Concen: 2.035 ug/L
RT: 3.23 min Scan# 665
Delta R.T. -0.00 min
Lab File: VV013019.D
Acq: 30 Sep 2019 15:51

Instrument :
MSVOA_V
ClientSampled :
MDL01

Tot Ion	Ratio	Lower	Upper
63	100		
65	32.4	22.4	41.6
83	12.7	9.0	16.6

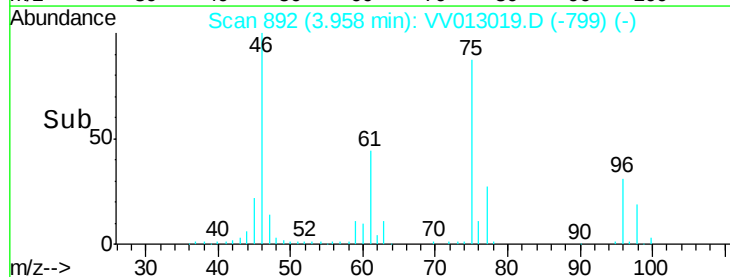
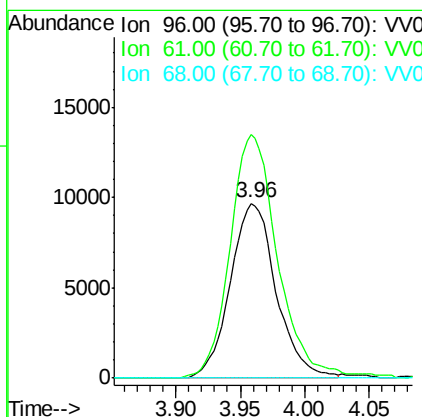
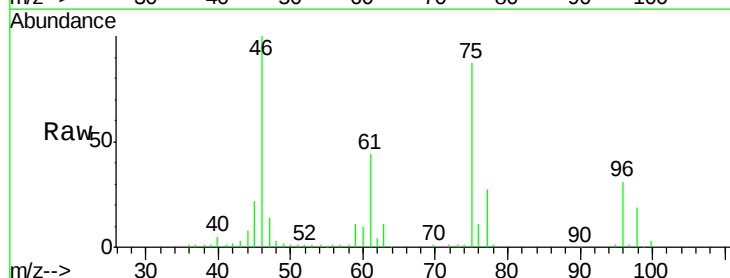
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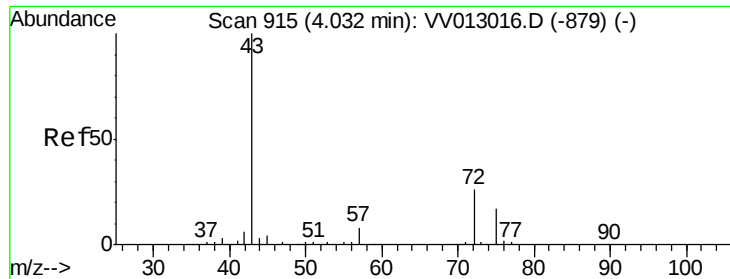
MMDadoda
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#20
cis-1,2-Dichloroethene
Concen: 1.938 ug/L
RT: 3.96 min Scan# 892
Delta R.T. -0.00 min
Lab File: VV013019.D
Acq: 30 Sep 2019 15:51

Tgt Ion	Ratio	Lower	Upper
96	100		
61	139.5	89.5	166.3
68	0.0	0.0	0.0





#22

2-Butanone

Concen: 3.858 ug/L m

RT: 4.03 min Scan# 915

Delta R.T. 0.01 min

Lab File: VV013019.D

Acq: 30 Sep 2019 15:51

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion: 43 Resp: 18501

Ion Ratio Lower Upper

43 100

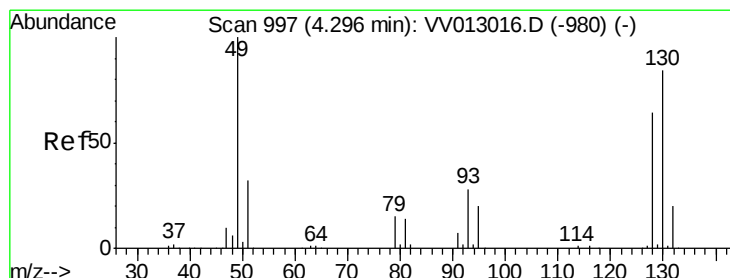
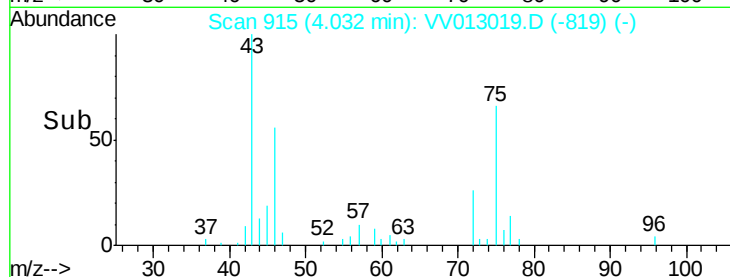
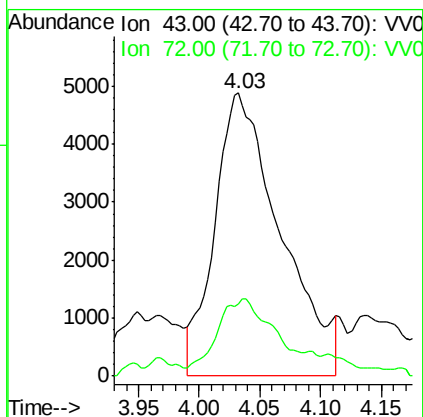
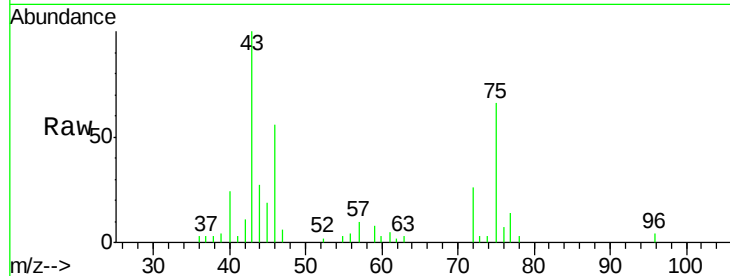
72 1.3 12.0 36.1#

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10/9/2019 3:10:17 PM



#23

Bromochloromethane

Concen: 1.890 ug/L

RT: 4.30 min Scan# 999

Delta R.T. 0.01 min

Lab File: VV013019.D

Acq: 30 Sep 2019 15:51

Tgt Ion: 128 Resp: 11444

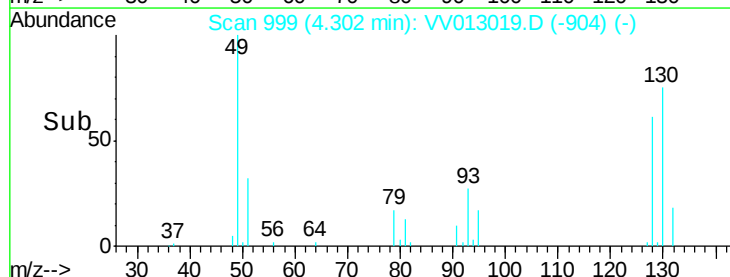
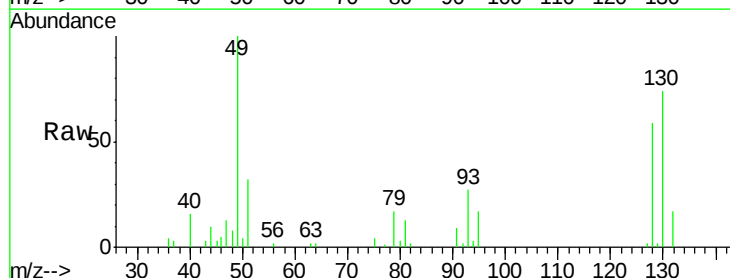
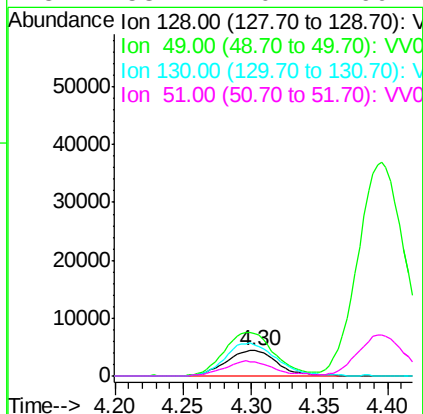
Ion Ratio Lower Upper

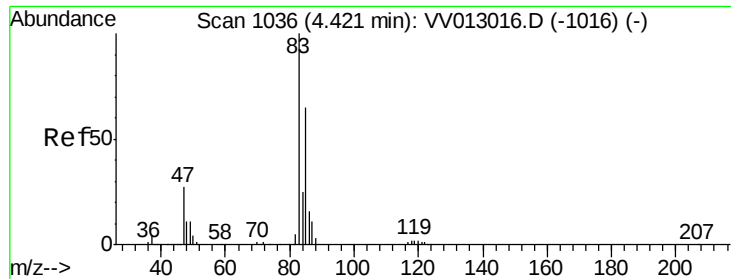
128 100

49 168.6 113.6 211.0

130 124.3 88.0 163.4

51 53.4 40.2 60.2





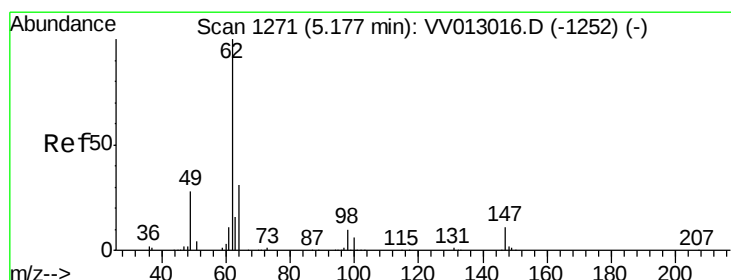
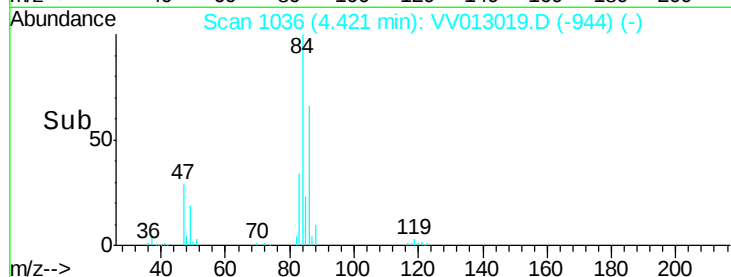
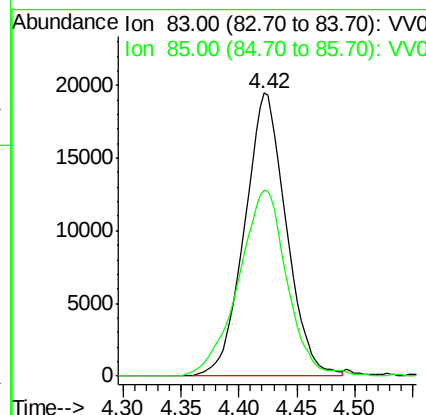
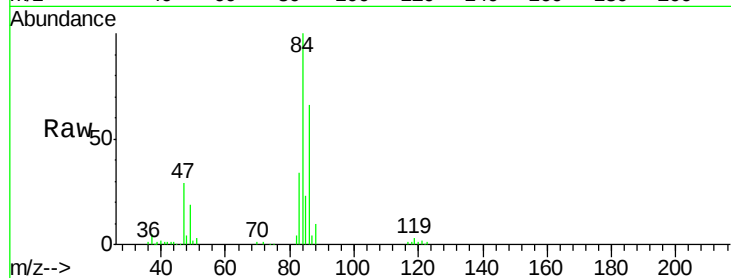
#25
Chloroform
Concen: 2.292 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. -0.00 min
Lab File: VV013019.D
Acq: 30 Sep 2019 15:51

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tot Ion	83	Resp	48695
Ion Ratio	100	Lower	Upper
85	65.7	44.7	82.9

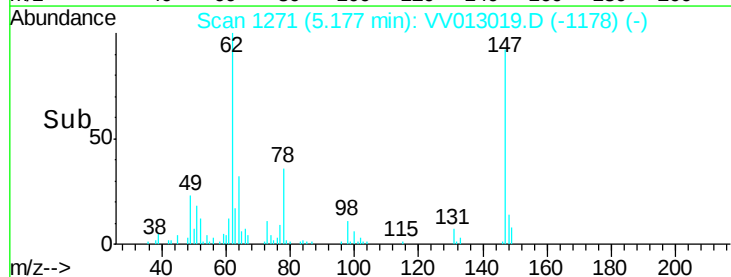
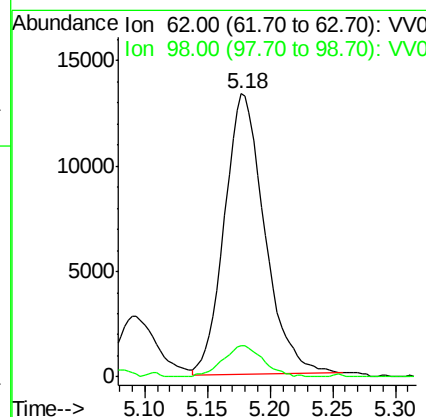
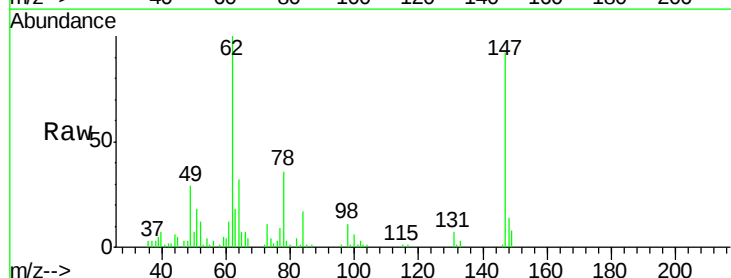
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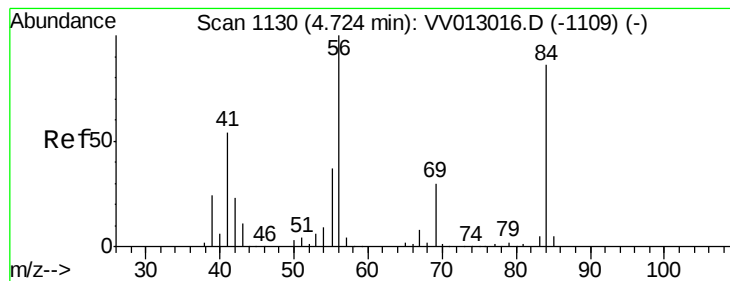
MMDadoda
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#27
1,2-Dichloroethane
Concen: 2.030 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VV013019.D
Acq: 30 Sep 2019 15:51

Tgt Ion	62	Resp	29647
Ion Ratio	100	Lower	Upper
98	11.1	8.5	12.7





#29

Cyclohexane

Concen: 1.940 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 15:51

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion: 56 Resp: 34299

Ion Ratio Lower Upper

56 100

69 29.2 24.2 36.4

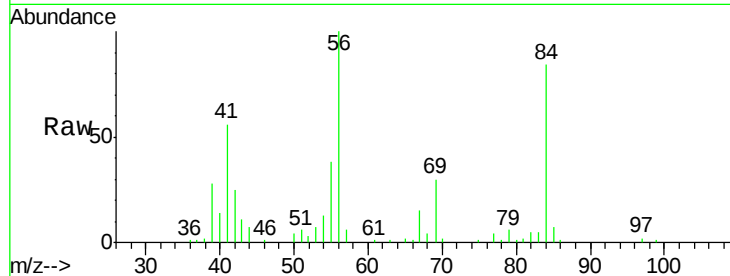
84 81.8 69.6 104.4

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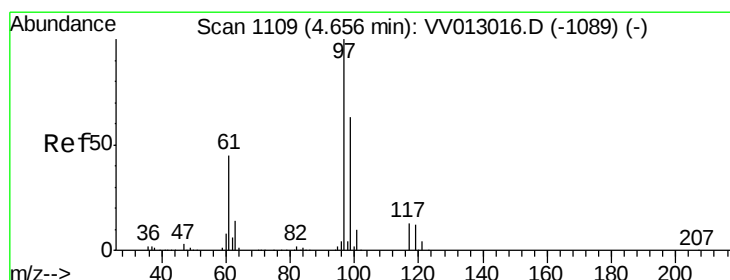
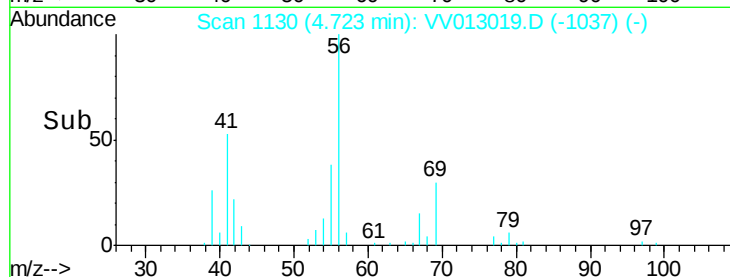


Abundance Ion 56.00 (55.70 to 56.70): VV013016.D (-1109) (-)

Ion 69.00 (68.70 to 69.70): VV013016.D (-1109) (-)

Ion 84.00 (83.70 to 84.70): VV013016.D (-1109) (-)

Time-->



#30

1,1,1-Trichloroethane

Concen: 1.993 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 15:51

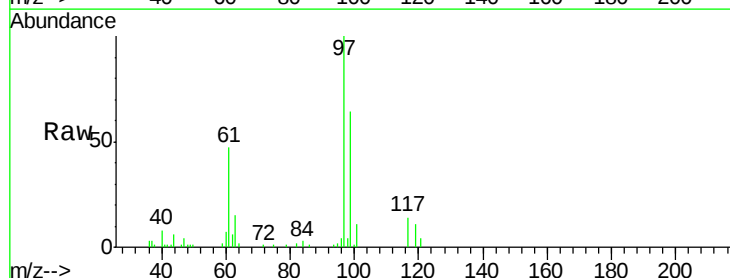
Tgt Ion: 97 Resp: 32699

Ion Ratio Lower Upper

97 100

99 64.7 51.7 77.5

61 48.5 36.1 54.1

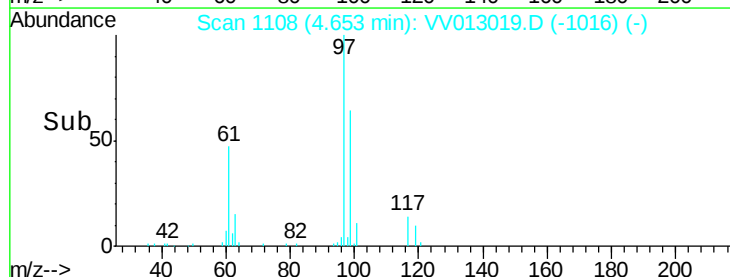


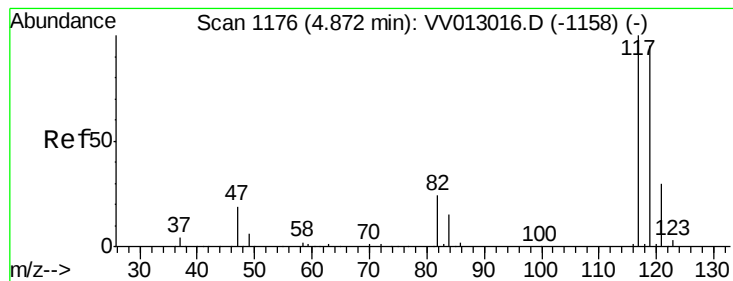
Abundance Ion 97.00 (96.70 to 97.70): VV013016.D (-1089) (-)

Ion 99.00 (98.70 to 99.70): VV013016.D (-1089) (-)

Ion 61.05 (60.75 to 61.75): VV013016.D (-1089) (-)

Time-->





#31

Carbon tetrachloride

Concen: 1.989 ug/L

RT: 4.87 min Scan# 1177

Delta R.T. -0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 15:51

Instrument :

MSVOA_V

ClientSampled :

MDL01

Tot Ion:117 Resp: 29375

Ion Ratio Lower Upper

117 100

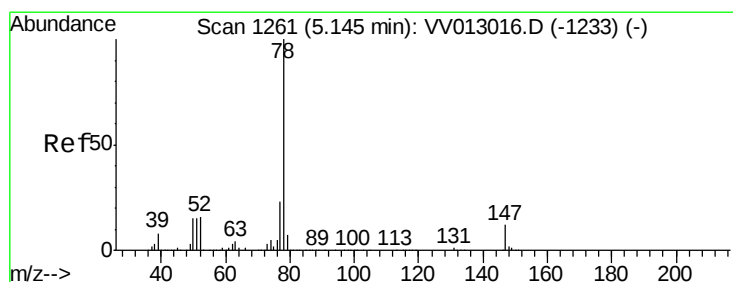
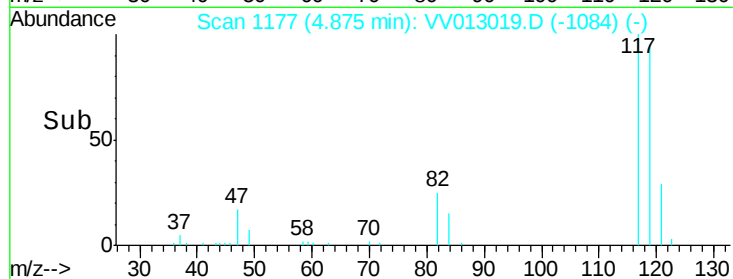
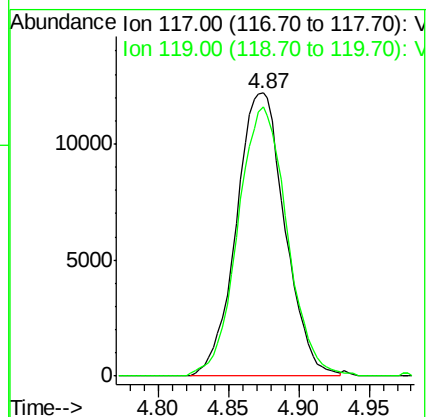
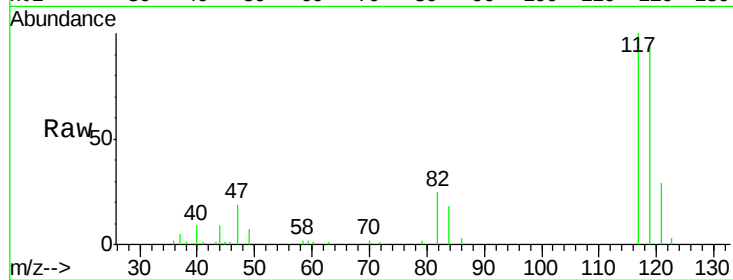
119 96.3 76.1 114.1

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#33

Benzene

Concen: 2.057 ug/L

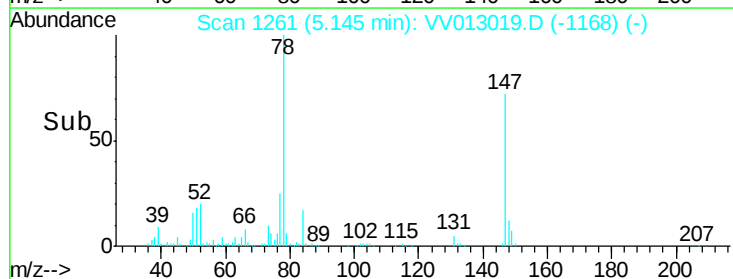
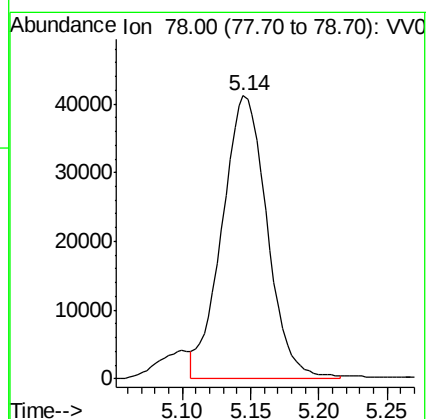
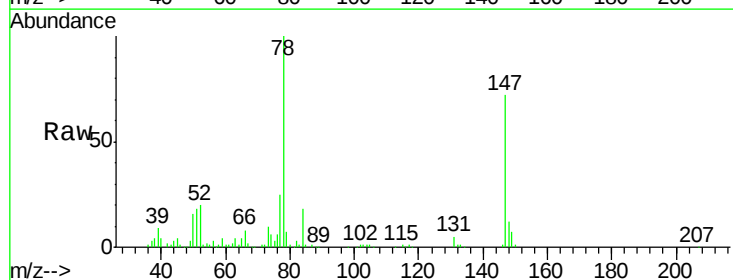
RT: 5.14 min Scan# 1261

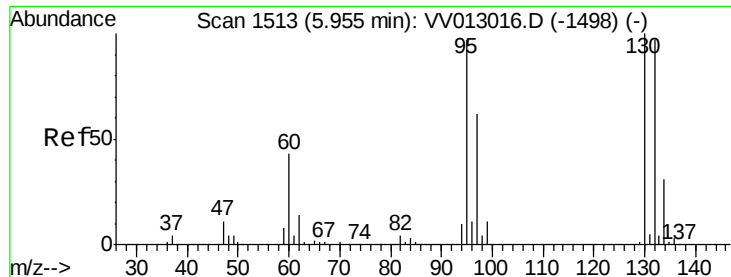
Delta R.T. -0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 15:51

Tgt Ion: 78 Resp: 94456





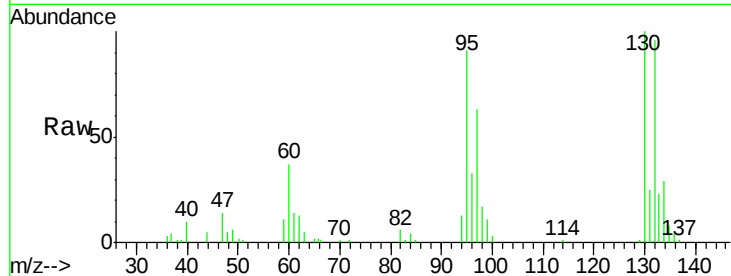
#34
 Trichloroethene
 Concen: 2.057 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. -0.00 min
 Lab File: VV013019.D
 Acq: 30 Sep 2019 15:51

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

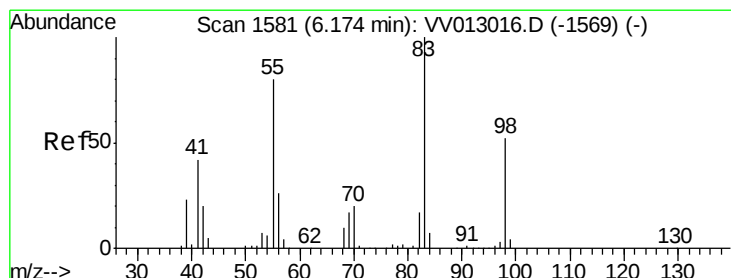
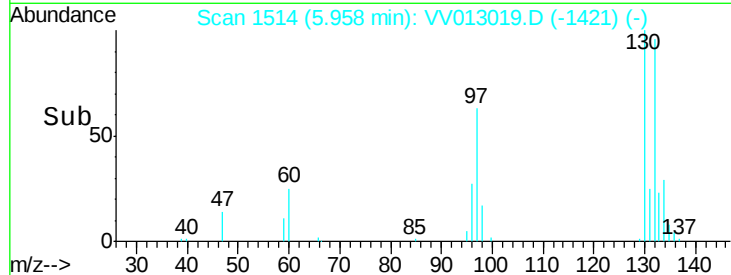
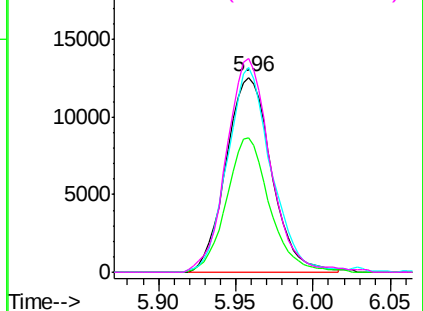
Tot Ion	Ion	Ratio	Resp	Lower	Upper
95	100		25593		
97	69.2	45.4	84.2		
132	105.1	70.1	130.3		
130	109.8	72.4	134.4		

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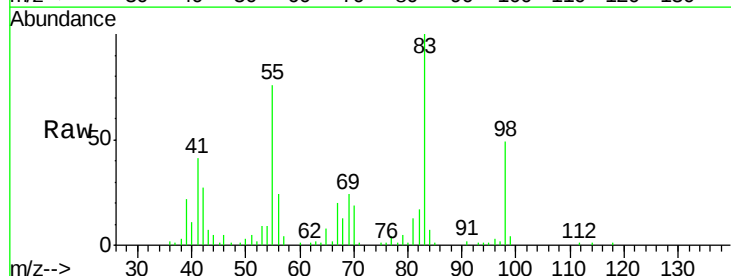


Abundance Ion 95.00 (94.70 to 95.70): VV013019.D (-1421) (-)
 Ion 97.00 (96.70 to 97.70): VV013019.D (-1421) (-)
 Ion 132.00 (131.70 to 132.70): VV013019.D (-1421) (-)
 Ion 130.00 (129.70 to 130.70): VV013019.D (-1421) (-)

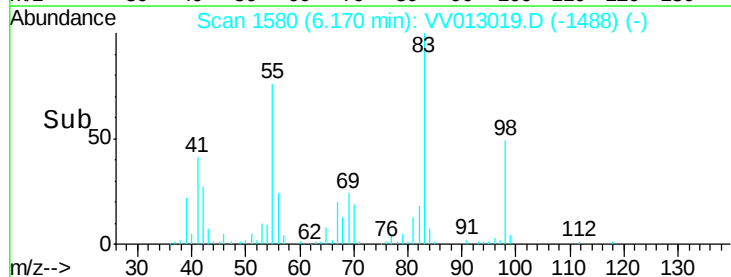
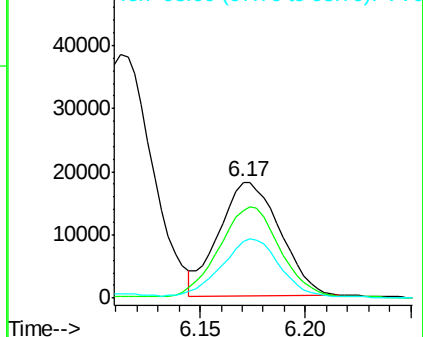


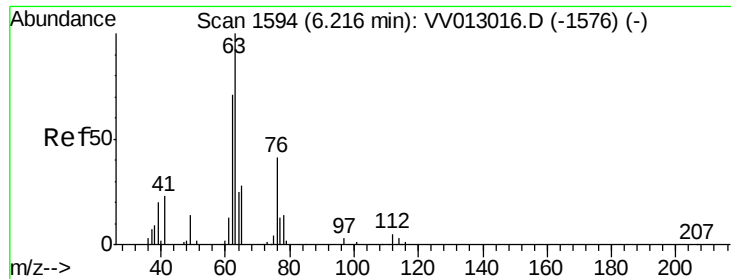
#35
 Methylcyclohexane
 Concen: 1.861 ug/L
 RT: 6.17 min Scan# 1580
 Delta R.T. -0.00 min
 Lab File: VV013019.D
 Acq: 30 Sep 2019 15:51

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
83	100		36329		
55	79.0	61.9	92.9		
98	48.5	40.0	60.0		



Abundance Ion 83.00 (82.70 to 83.70): VV013019.D (-1488) (-)
 Ion 55.00 (54.70 to 55.70): VV013019.D (-1488) (-)
 Ion 98.00 (97.70 to 98.70): VV013019.D (-1488) (-)





#37

1,2-Dichloropropane

Concen: 2.034 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. -0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 15:51

Instrument :

MSVOA_V

ClientSampled :

MDL01

Tot Ion: 63 Resp: 23970

Ion Ratio Lower Upper

63 100

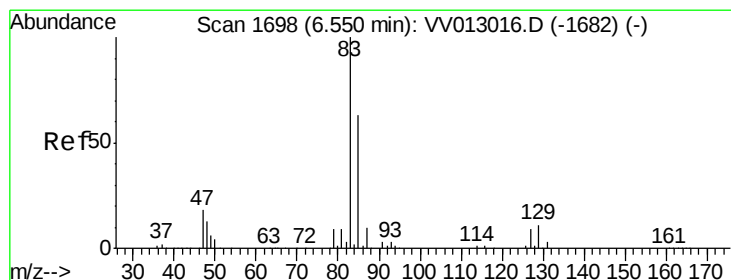
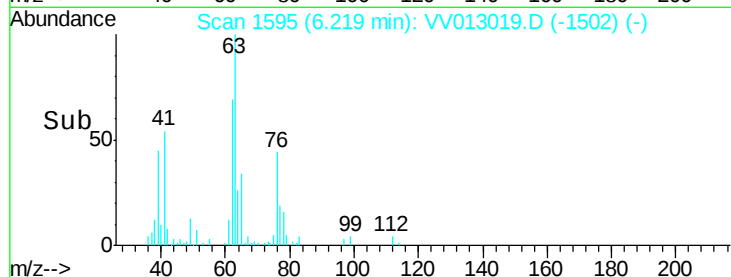
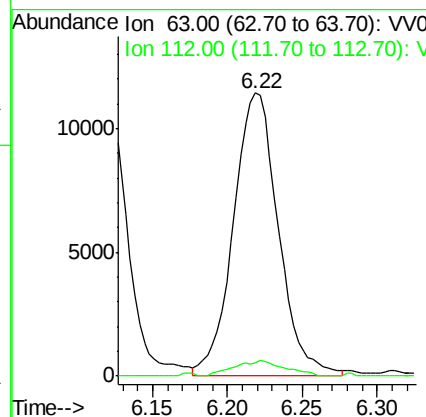
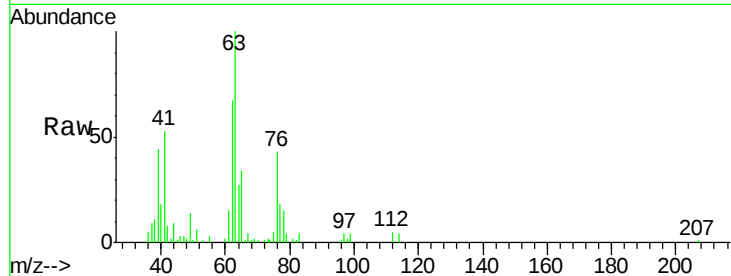
112 3.8 3.8 5.8#

Manual Integrations

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#38

Bromodichloromethane

Concen: 1.967 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 15:51

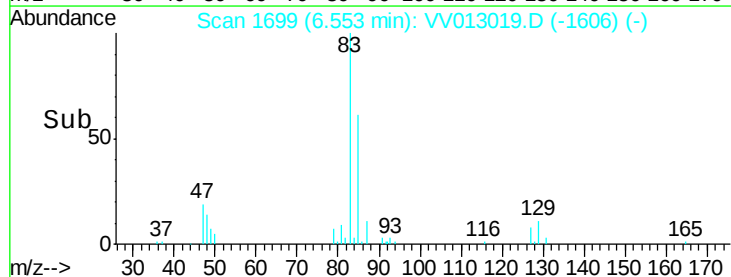
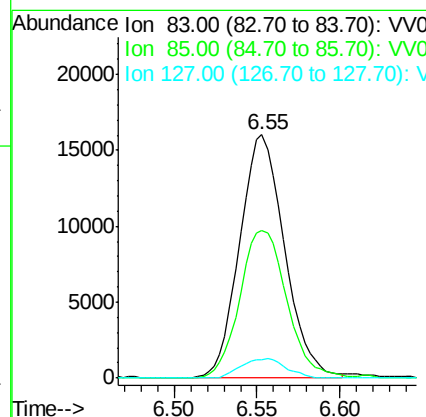
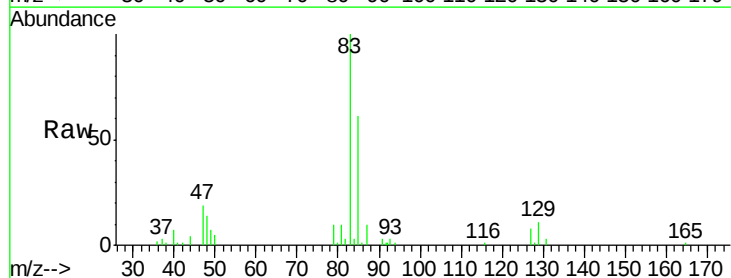
Tgt Ion: 83 Resp: 30249

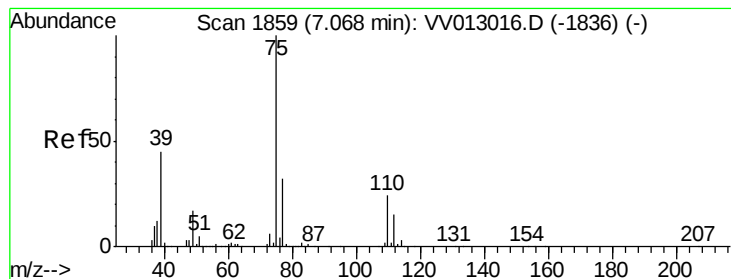
Ion Ratio Lower Upper

83 100

85 60.6 43.9 81.5

127 7.6 7.0 10.6





#39

cis-1,3-Dichloropropene

Concen: 1.870 ug/L

RT: 7.07 min Scan# 1860

Delta R.T. 0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 15:51

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion: 75 Resp: 33167

Ion Ratio Lower Upper

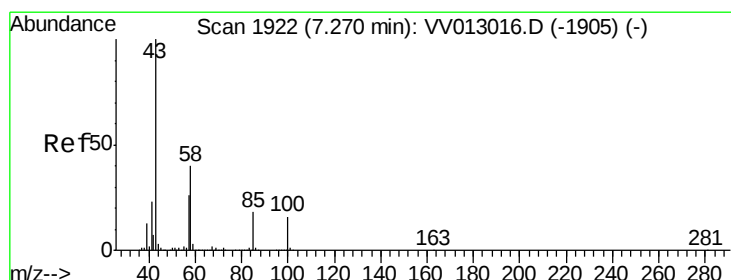
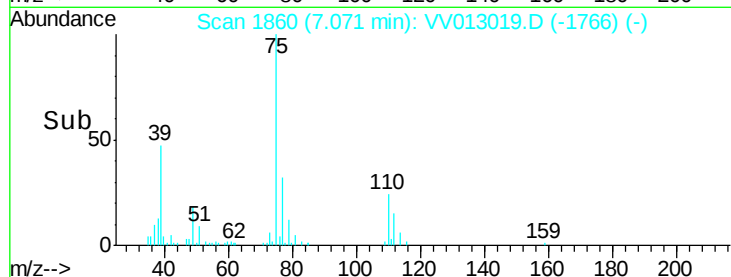
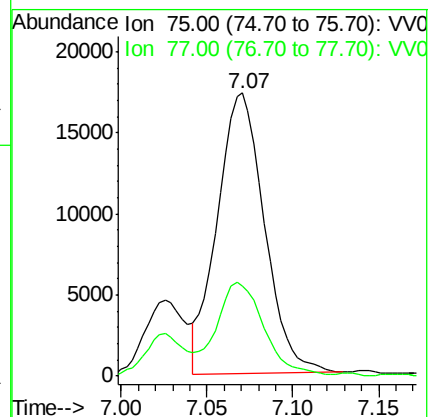
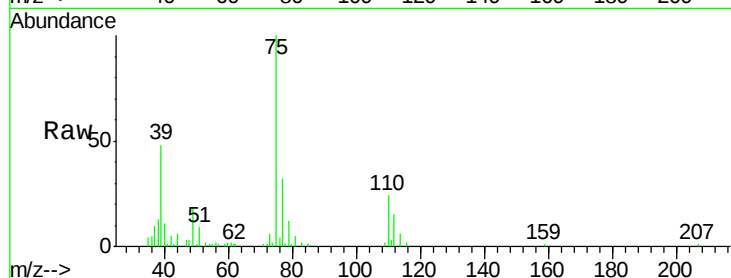
75 100

77 31.9 21.8 40.4

Manual Integrations
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#40

4-Methyl-2-pentanone

Concen: 3.766 ug/L

RT: 7.27 min Scan# 1923

Delta R.T. 0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 15:51

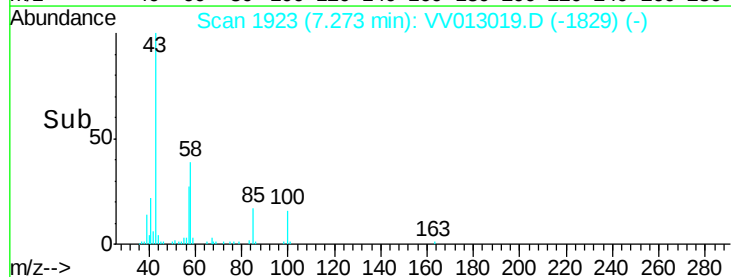
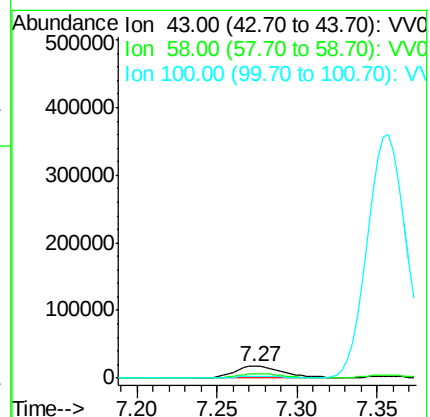
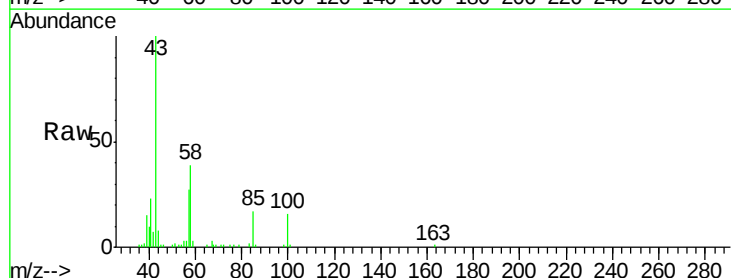
Tgt Ion: 43 Resp: 35464

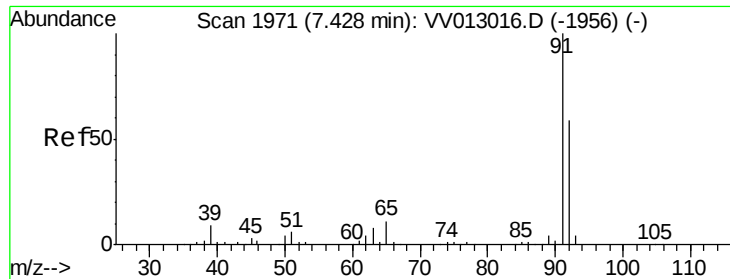
Ion Ratio Lower Upper

43 100

58 38.8 31.8 47.8

100 15.0 12.8 19.2





#42

Toluene

Concen: 2.109 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 15:51

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion: 91 Resp: 102984

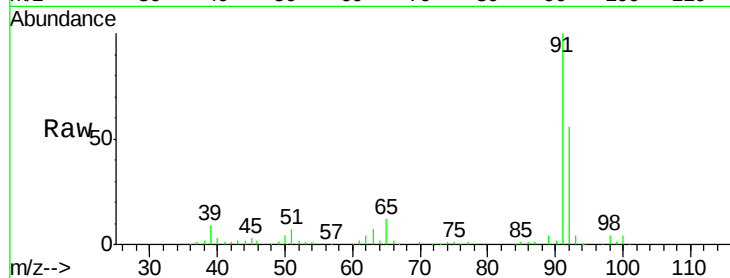
Ion Ratio Lower Upper

91 100

92 55.6 41.1 76.3

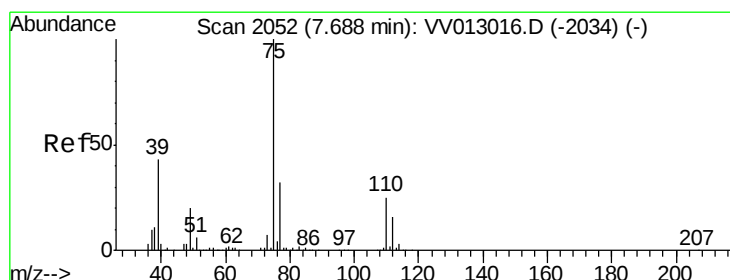
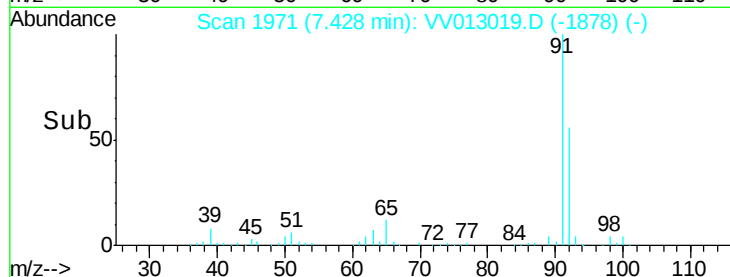
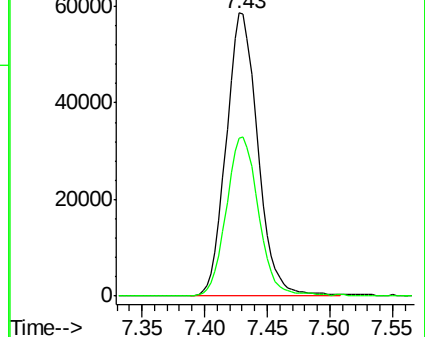
Manual Integrations
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Abundance Ion 91.00 (90.70 to 91.70): VV013016.D (-1956) (-)

Ion 92.00 (91.70 to 92.70): VV013016.D (-1956) (-)



#44

trans-1,3-Dichloropropene

Concen: 1.915 ug/L m

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV013019.D

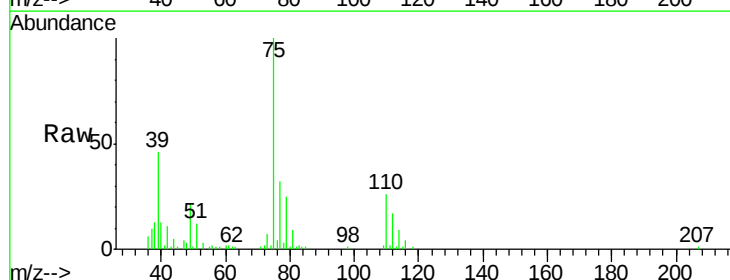
Acq: 30 Sep 2019 15:51

Tgt Ion: 75 Resp: 27890

Ion Ratio Lower Upper

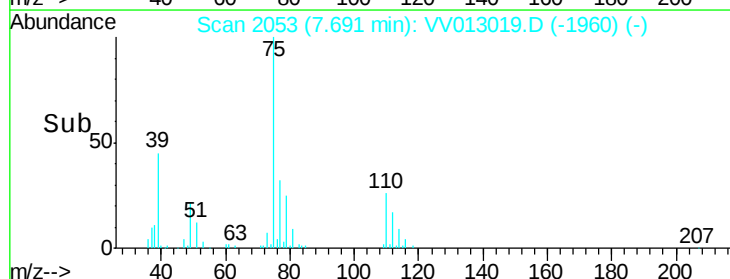
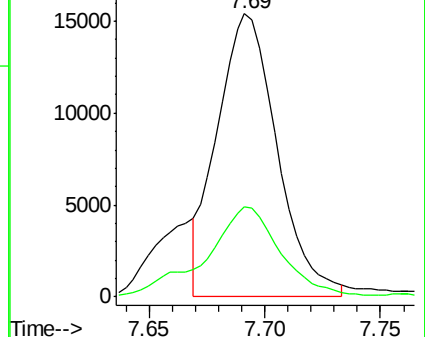
75 100

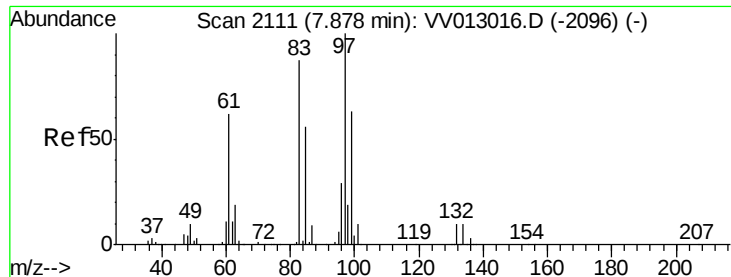
77 32.0 22.1 41.1



Abundance Ion 75.00 (74.70 to 75.70): VV013016.D (-2034) (-)

Ion 77.00 (76.70 to 77.70): VV013016.D (-2034) (-)





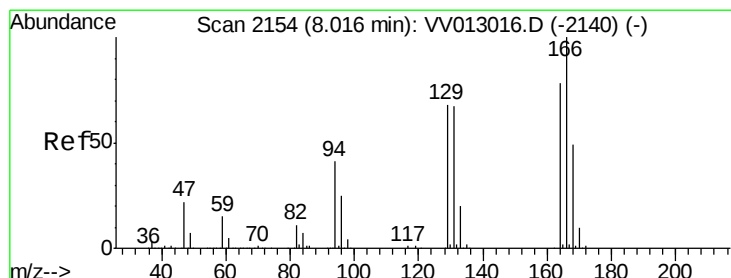
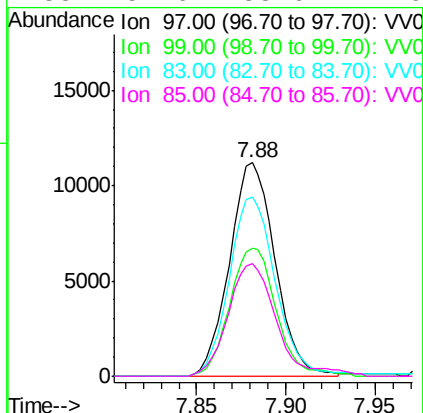
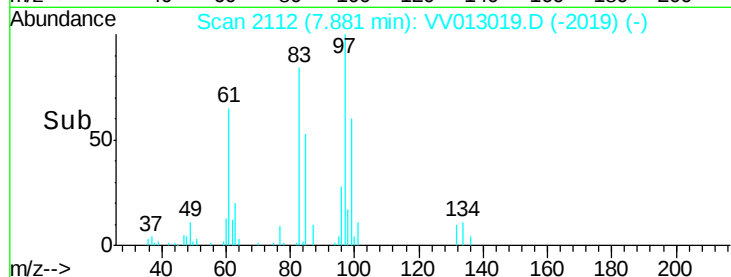
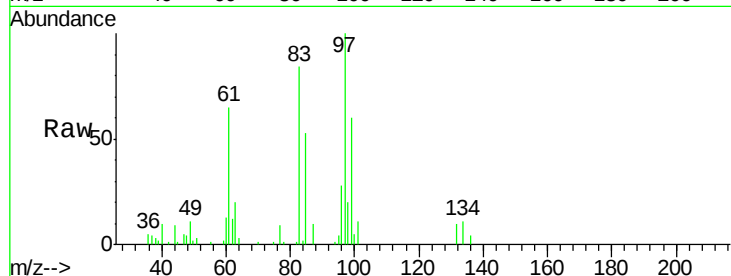
#45
1,1,2-Trichloroethane
Concen: 2.000 ug/L
RT: 7.88 min Scan# 2112
Delta R.T. -0.00 min
Lab File: VV013019.D
Acq: 30 Sep 2019 15:51

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tot Ion:	97	Resp:	19985
Ion	Ratio	Lower	Upper
97	100		
99	60.2	44.2	82.2
83	84.1	59.7	110.9
85	52.6	38.6	71.6

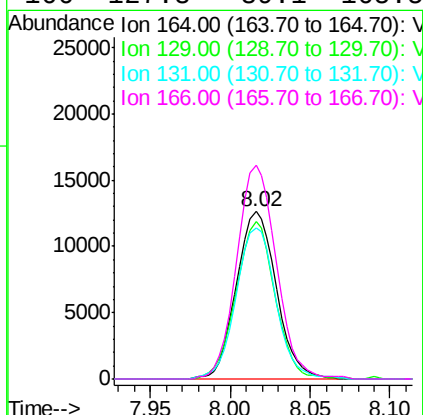
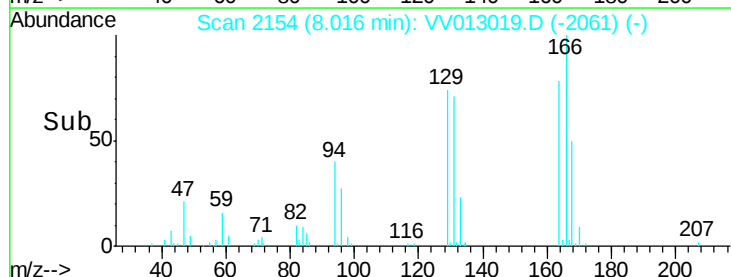
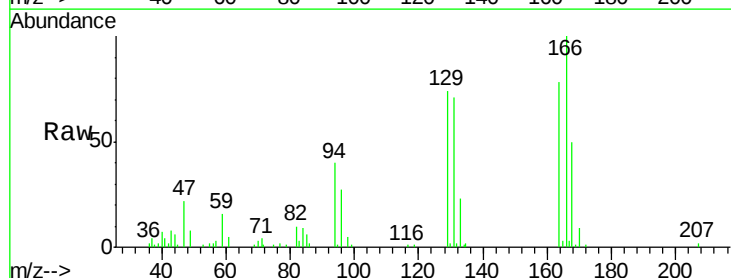
Manual Integrations
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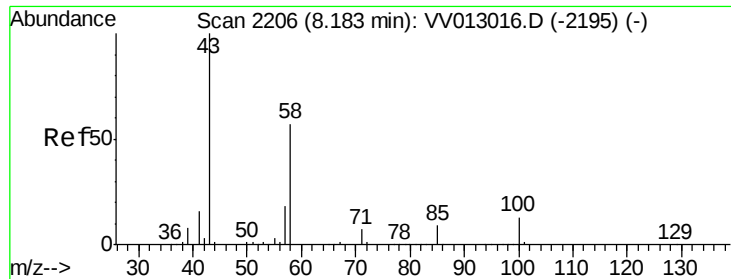
MMDadoda
10/9/2019 3:10:17 PM



#46
Tetrachloroethene
Concen: 2.094 ug/L
RT: 8.02 min Scan# 2154
Delta R.T. -0.00 min
Lab File: VV013019.D
Acq: 30 Sep 2019 15:51

Tgt Ion:	164	Resp:	21556
Ion	Ratio	Lower	Upper
164	100		
129	94.3	61.2	113.6
131	90.2	59.9	111.3
166	127.8	89.1	165.5





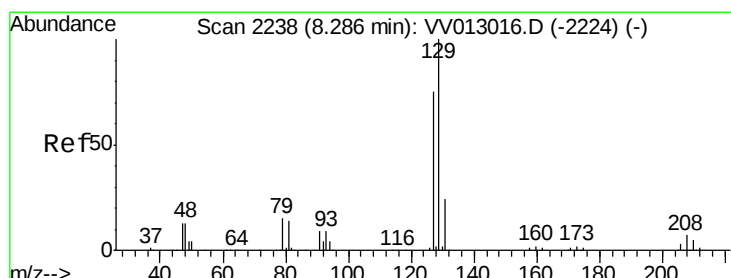
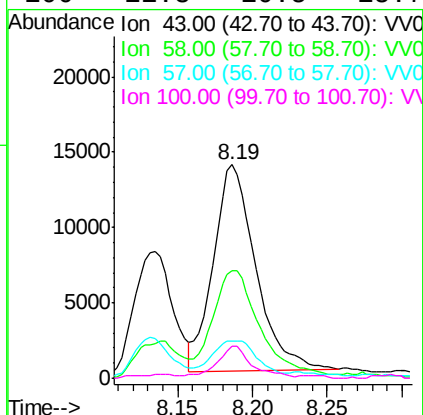
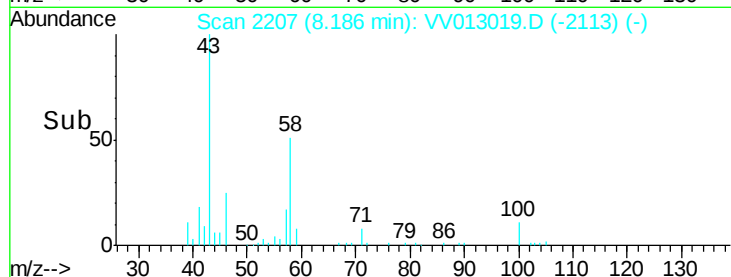
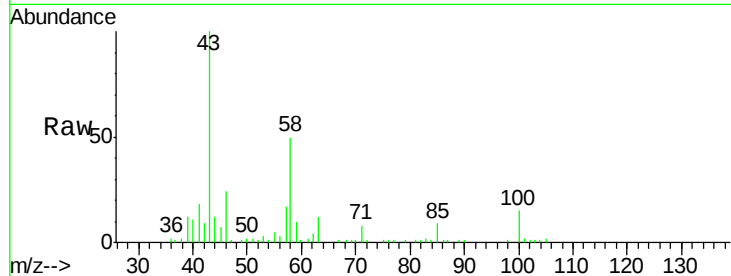
#48
2-Hexanone
Concen: 3.919 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.00 min
Lab File: VV013019.D
Acq: 30 Sep 2019 15:51

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
58	56.0	44.9	67.3	
57	7.3	15.2	22.8	
100	11.8	10.5	15.7	

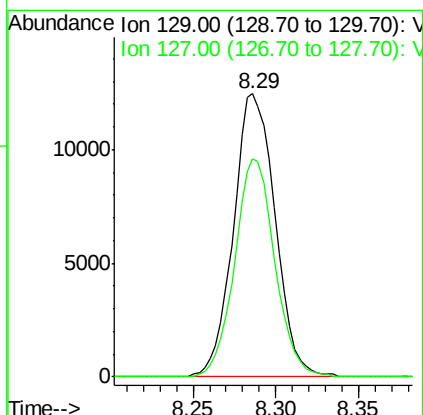
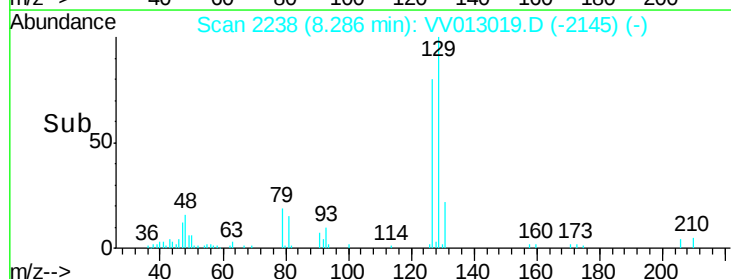
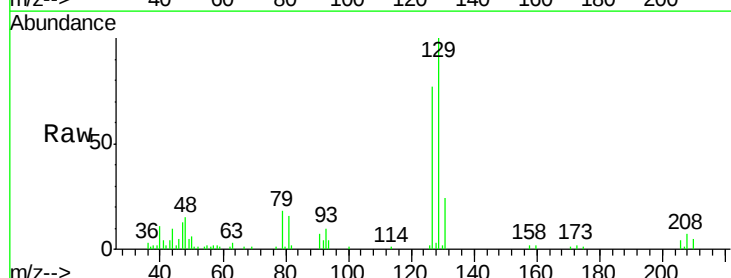
Manual Integrations
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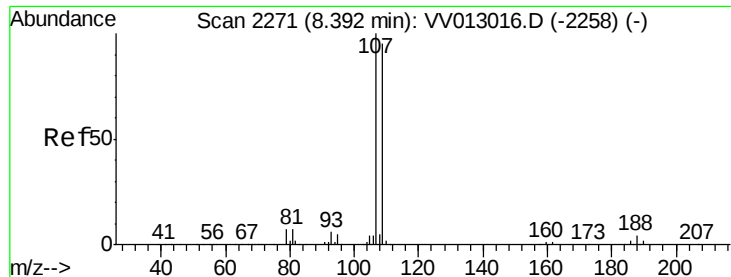
MMDadoda
10/9/2019 3:10:17 PM



#49
Dibromochloromethane
Concen: 1.913 ug/L
RT: 8.29 min Scan# 2238
Delta R.T. -0.00 min
Lab File: VV013019.D
Acq: 30 Sep 2019 15:51

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	77.2	53.9	100.1	





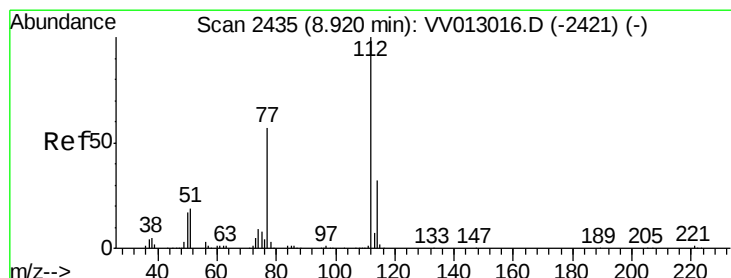
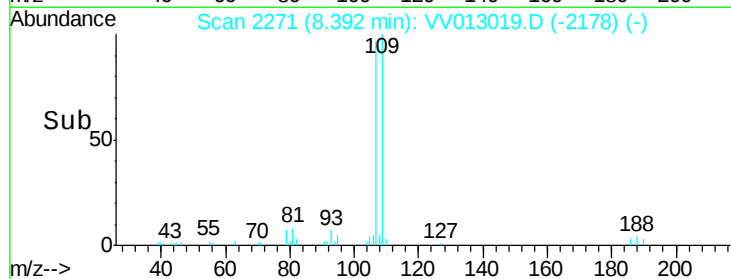
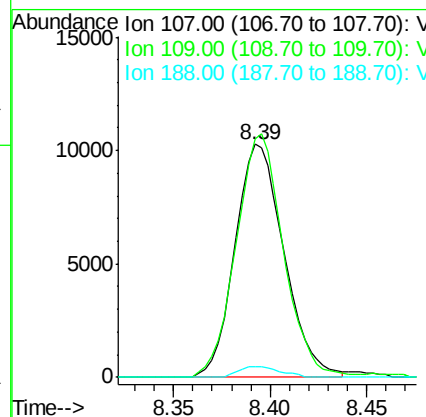
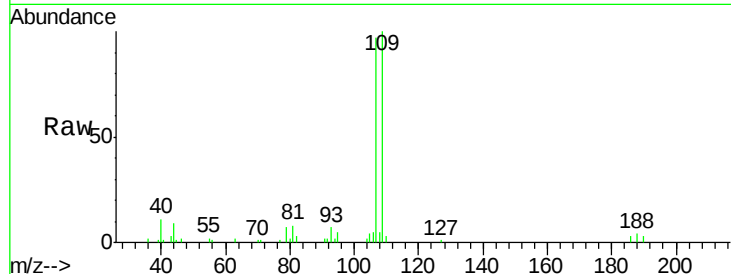
#50
 1,2-Dibromoethane
 Concen: 1.839 ug/L
 RT: 8.39 min Scan# 2271
 Delta R.T. -0.00 min
 Lab File: VV013019.D
 Acq: 30 Sep 2019 15:51

Instrument :
 MSVOA_V
 ClientSampled :
 MDL01

Tot Ion	Ratio	Lower	Upper
107	100		
109	102.7	64.7	120.1
188	4.5	3.7	5.5

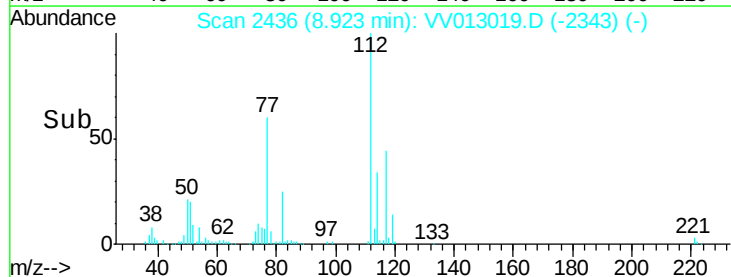
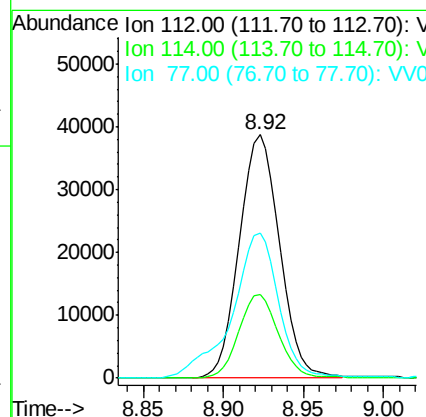
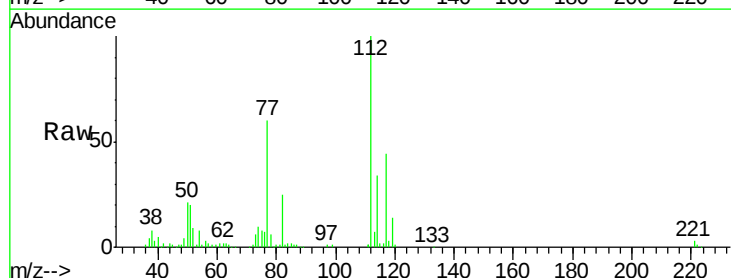
Manual Integrations
 APPROVED

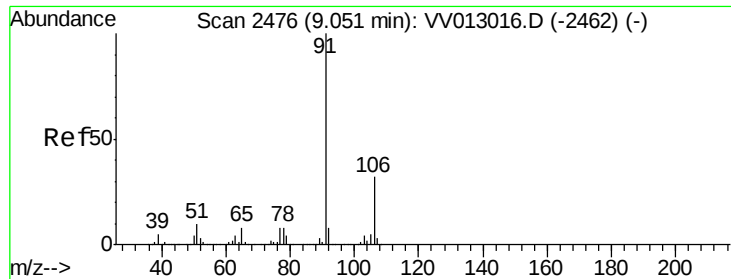
MMDadoda
 10/9/2019 3:10:17 PM



#51
 Chlorobenzene
 Concen: 2.011 ug/L
 RT: 8.92 min Scan# 2436
 Delta R.T. -0.00 min
 Lab File: VV013019.D
 Acq: 30 Sep 2019 15:51

Tgt Ion	Ratio	Lower	Upper
112	100		
114	34.3	22.7	42.1
77	59.7	45.9	68.9





#52

Ethylbenzene

Concen: 1.886 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 15:51

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion: 91 Resp: 101202

Ion Ratio Lower Upper

91 100

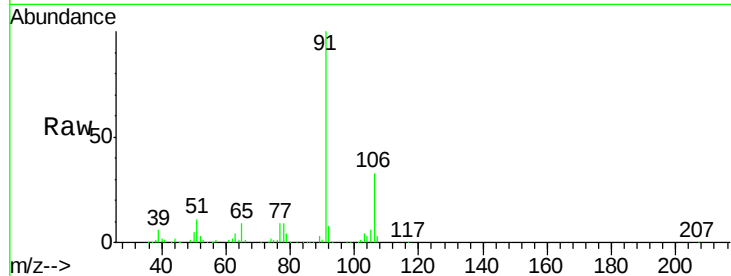
106 32.7 21.8 40.4

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VV013019.D (-2462) (-)

Ion 106.00 (105.70 to 106.70): VV013019.D (-2462) (-)

9.05

60000

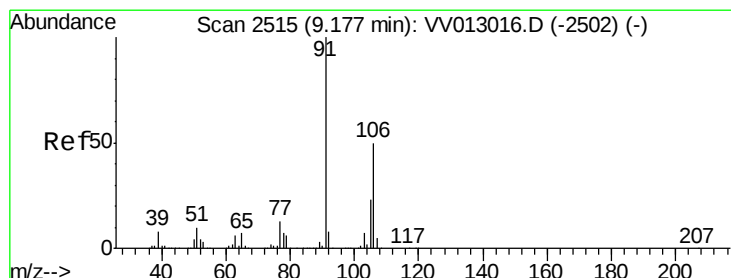
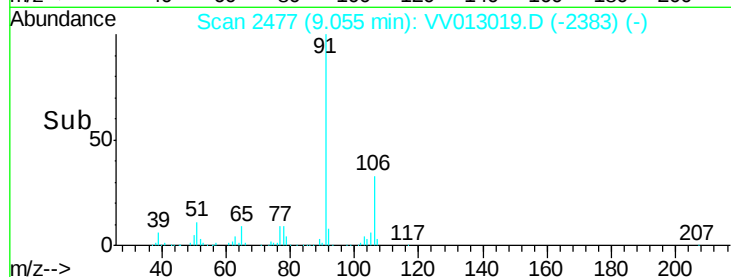
40000

20000

0

Time-->

9.00 9.05 9.10



#53

m,p-Xylene

Concen: 1.824 ug/L

RT: 9.18 min Scan# 2515

Delta R.T. -0.00 min

Lab File: VV013019.D

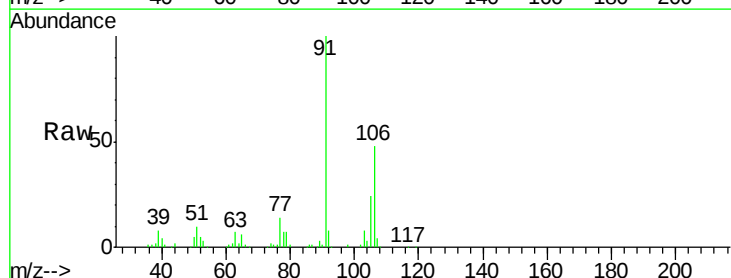
Acq: 30 Sep 2019 15:51

Tgt Ion: 106 Resp: 37397

Ion Ratio Lower Upper

106 100

91 208.4 138.0 256.2



Abundance Ion 106.00 (105.70 to 106.70): VV013019.D (-2502) (-)

Ion 91.00 (90.70 to 91.70): VV013019.D (-2502) (-)

9.18

50000

40000

30000

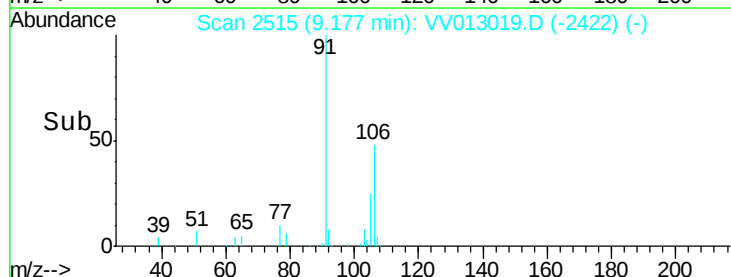
20000

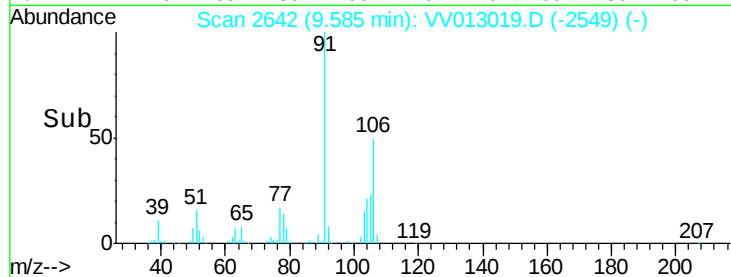
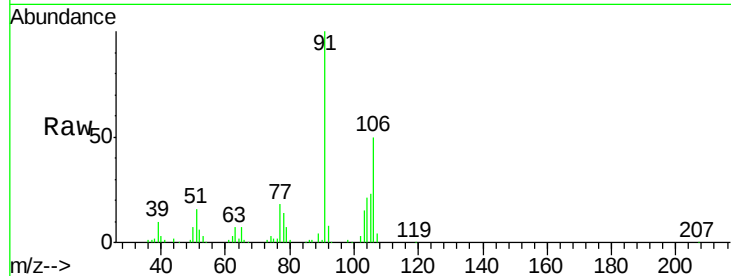
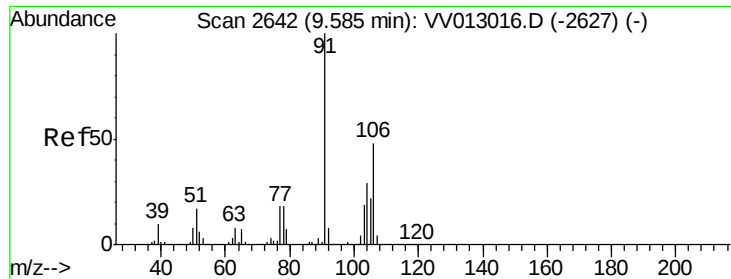
10000

0

Time-->

9.10 9.15 9.20 9.25





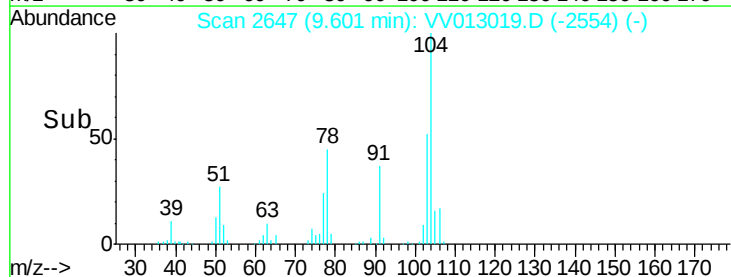
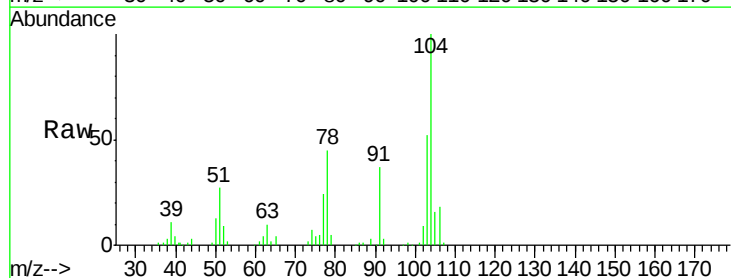
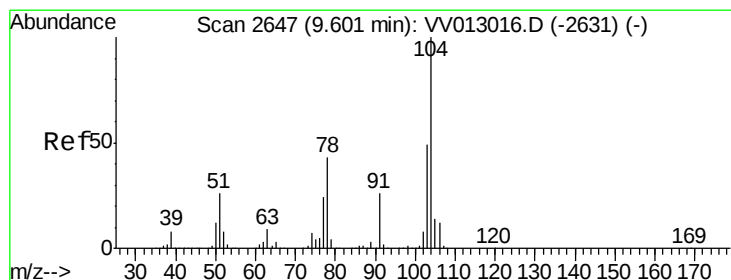
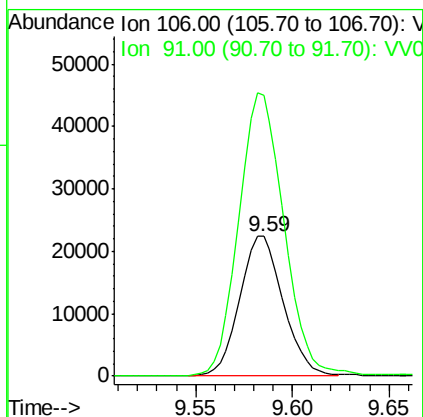
#54
o-Xylene
Concen: 1.791 ug/L
RT: 9.59 min Scan# 2642
Delta R.T. -0.00 min
Lab File: VV013019.D
Acq: 30 Sep 2019 15:51

Tot Ion:106 Resp: 35140
Ion Ratio Lower Upper
106 100
91 200.5 150.8 280.1

Instrument :
MSVOA_V
ClientSampled :
MDL01

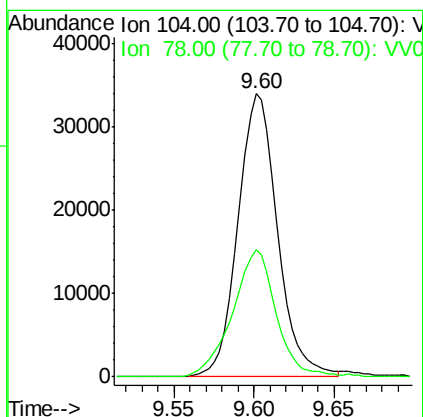
Manual Integrations
APPROVED

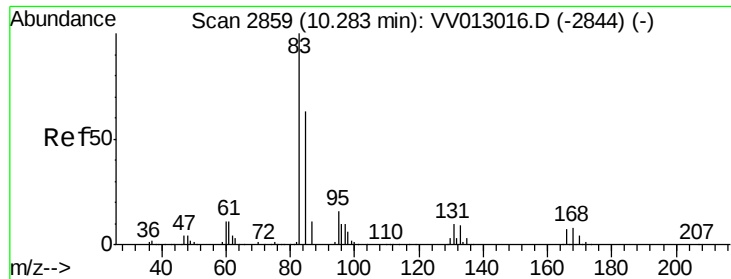
MMDadoda
10/9/2019 3:10:17 PM



#55
Styrene
Concen: 1.666 ug/L
RT: 9.60 min Scan# 2647
Delta R.T. -0.00 min
Lab File: VV013019.D
Acq: 30 Sep 2019 15:51

Tgt Ion:104 Resp: 57236
Ion Ratio Lower Upper
104 100
78 44.8 29.8 55.3





#57

1,1,2,2-Tetrachloroethane

Concen: 2.028 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 15:51

Instrument :

MSVOA_V

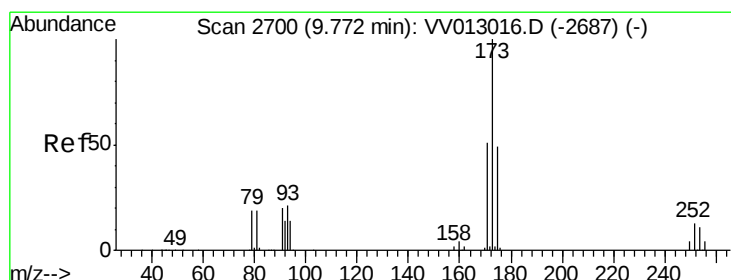
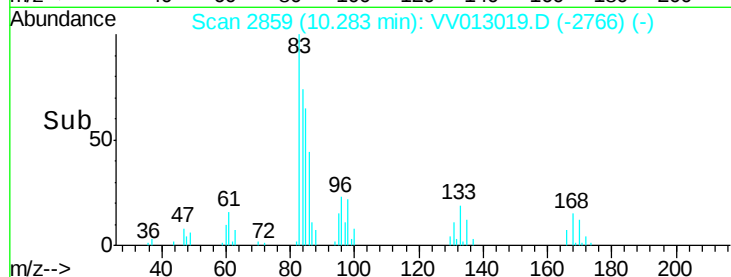
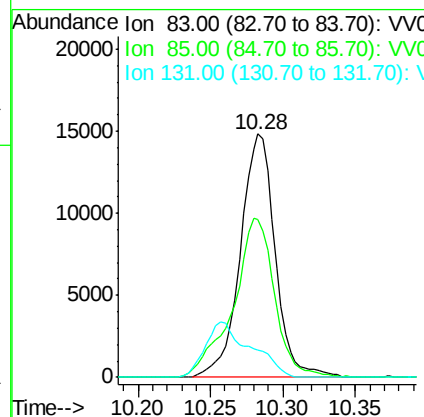
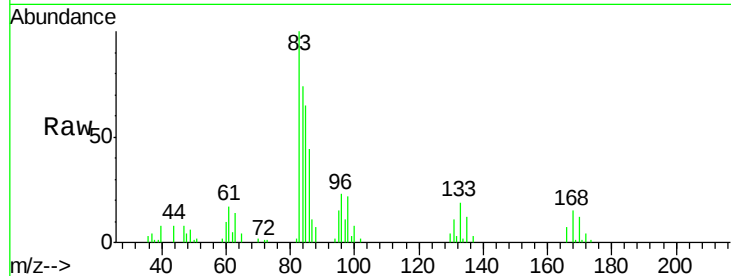
ClientSampleId :

MDL01

Tot Ion:	83	Resp:	24720
Ion Ratio	Lower	Upper	
83	100		
85	64.7	44.5	82.7
131	11.1	8.2	12.2

Manual Integrations
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#59

Bromoform

Concen: 1.848 ug/L

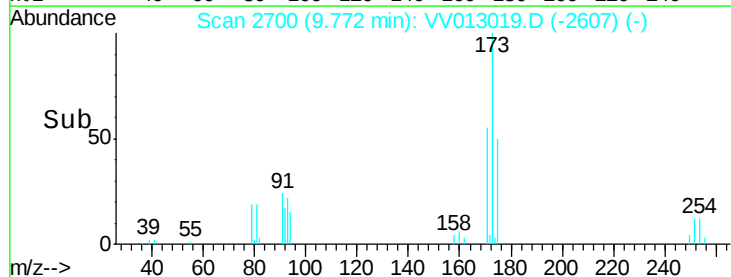
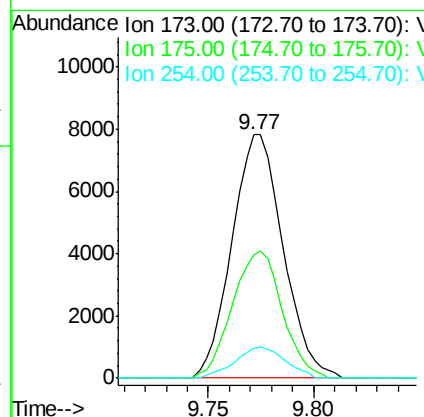
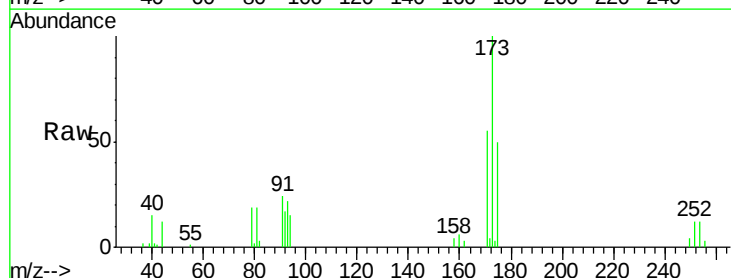
RT: 9.77 min Scan# 2700

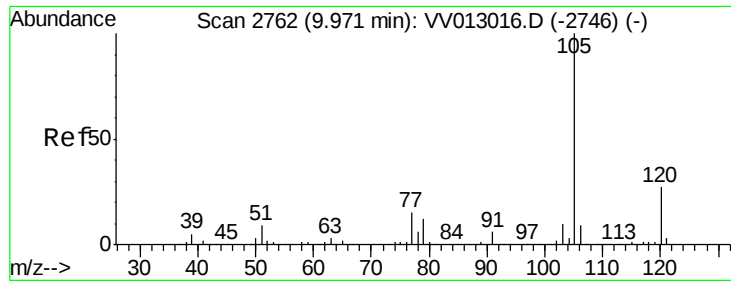
Delta R.T. -0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 15:51

Tgt Ion:	173	Resp:	13180
Ion Ratio	Lower	Upper	
173	100		
175	50.8	38.9	58.3
254	12.3	9.4	14.0





#60

Isopropylbenzene

Concen: 1.790 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 15:51

Instrument :

MSVOA_V

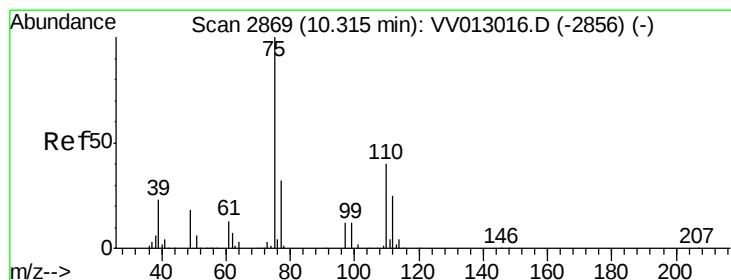
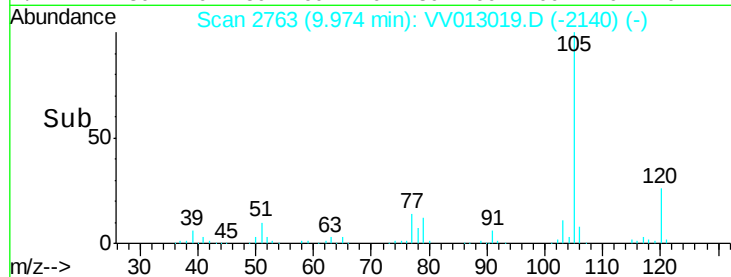
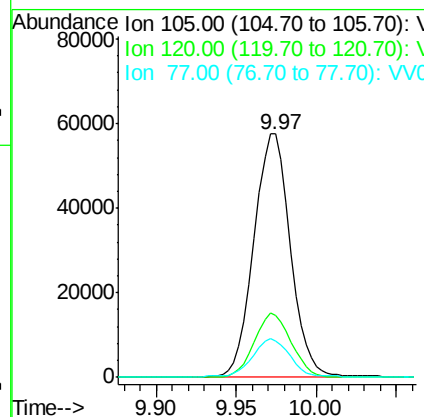
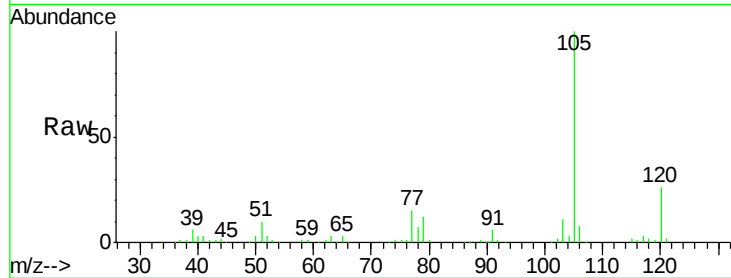
ClientSampleId :

MDL01

Tot Ion:	105	Resp:	89838
Ion Ratio	Lower	Upper	
105	100		
120	26.5	21.1	31.7
77	16.3	12.3	18.5

Manual Integrations
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#61

1,2,3-Trichloropropane

Concen: 2.035 ug/L

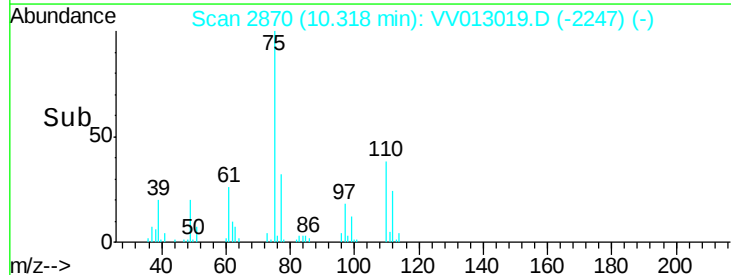
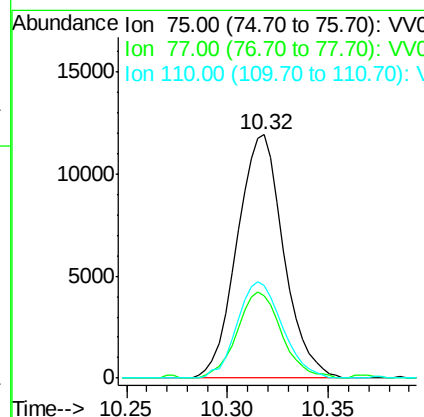
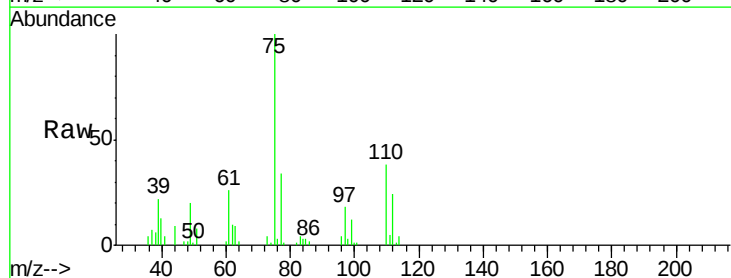
RT: 10.32 min Scan# 2870

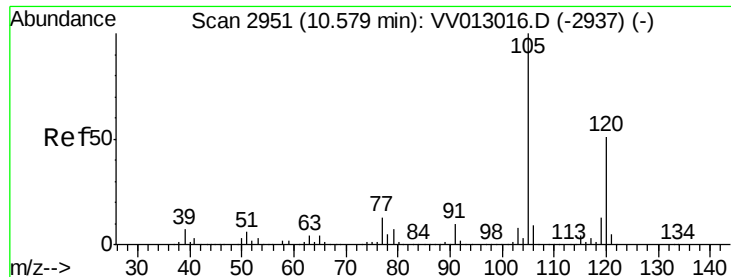
Delta R.T. 0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 15:51

Tgt Ion:	75	Resp:	19288
Ion Ratio	Lower	Upper	
75	100		
77	33.8	25.4	38.2
110	38.5	31.7	47.5





#62

1,3,5-Trimethylbenzene

Concen: 1.689 ug/L

RT: 10.58 min Scan# 2951

Delta R.T. -0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 15:51

Instrument :

MSVOA_V

ClientSampled :

MDL01

Tot Ion:105 Resp: 68310

Ion Ratio Lower Upper

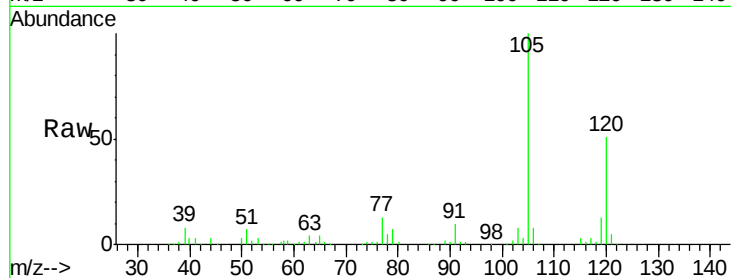
105 100

120 50.8 40.6 61.0

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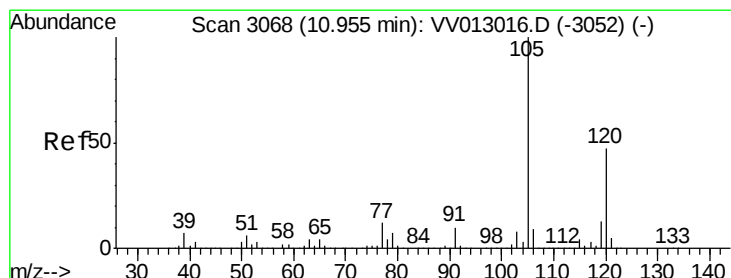
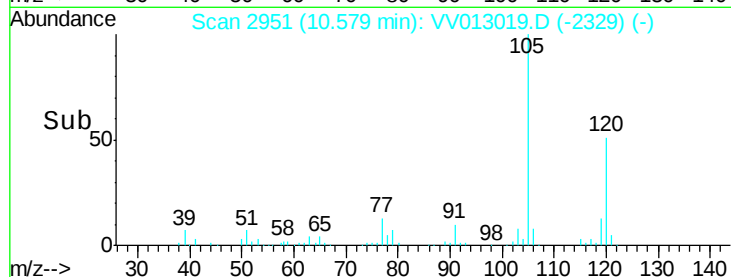
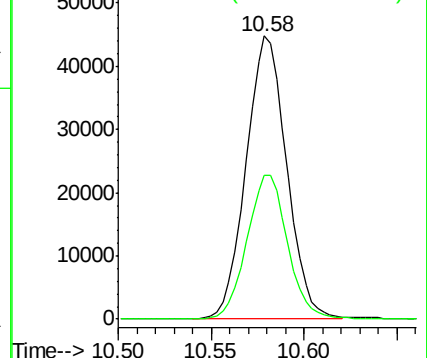
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#63

1,2,4-Trimethylbenzene

Concen: 1.653 ug/L

RT: 10.95 min Scan# 3068

Delta R.T. -0.00 min

Lab File: VV013019.D

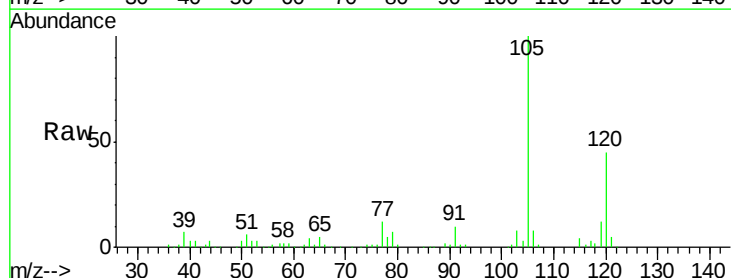
Acq: 30 Sep 2019 15:51

Tgt Ion:105 Resp: 67127

Ion Ratio Lower Upper

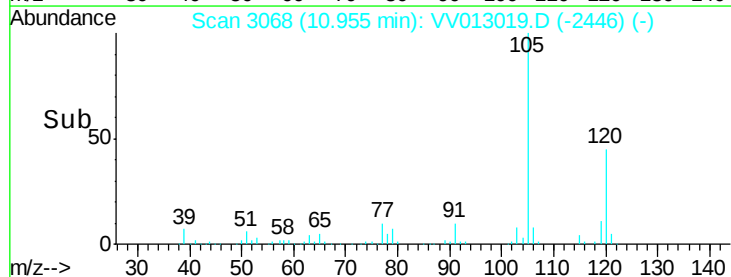
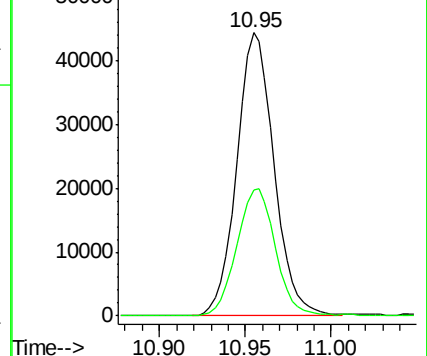
105 100

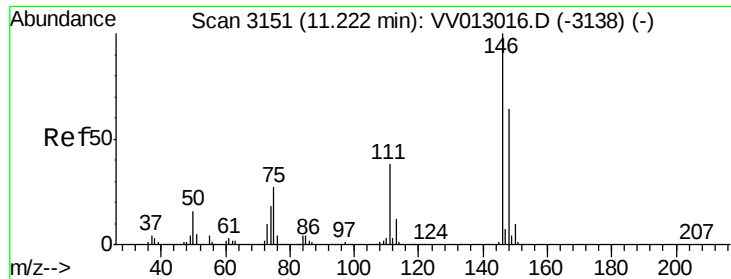
120 46.4 37.1 55.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





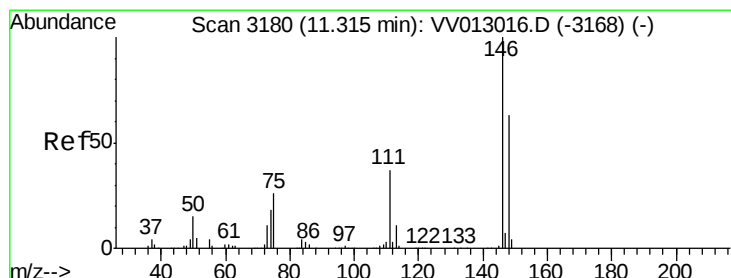
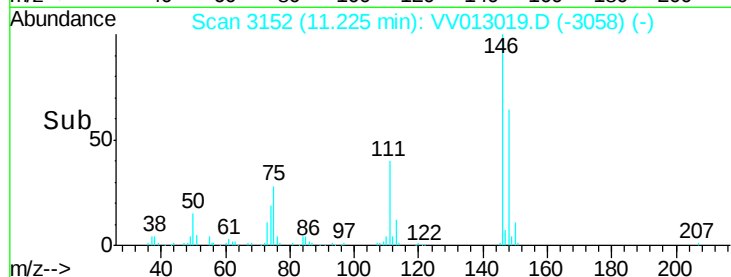
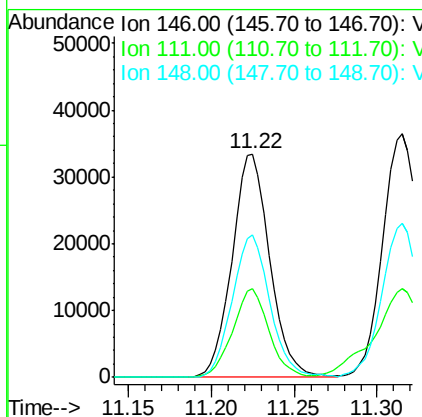
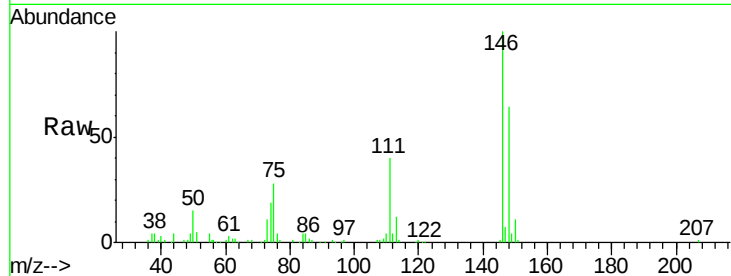
#64
 1,3-Dichlorobenzene
 Concen: 2.014 ug/L
 RT: 11.22 min Scan# 3152
 Delta R.T. 0.00 min
 Lab File: VV013019.D
 Acq: 30 Sep 2019 15:51

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.8	27.0	50.2
148	63.5	44.7	83.1

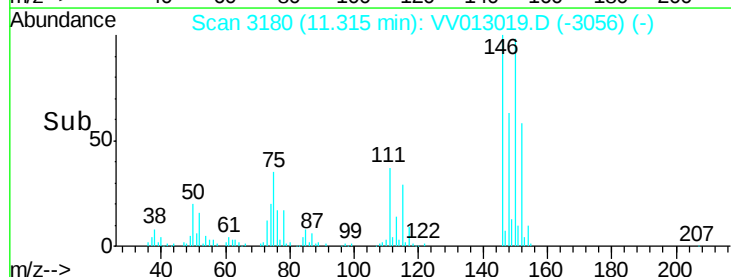
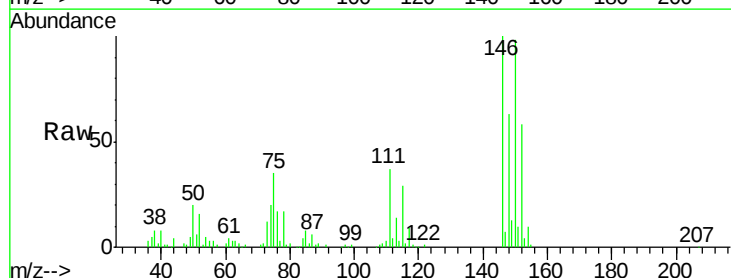
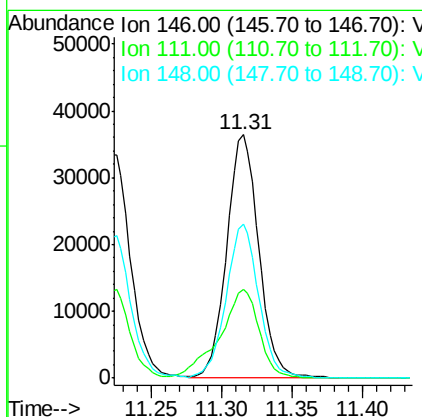
Manual Integrations
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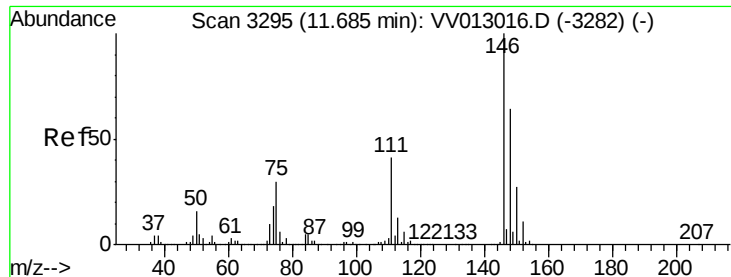
MMDadoda
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#65
 1,4-Dichlorobenzene
 Concen: 2.093 ug/L
 RT: 11.31 min Scan# 3180
 Delta R.T. -0.00 min
 Lab File: VV013019.D
 Acq: 30 Sep 2019 15:51

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.6	25.4	47.2
148	63.5	44.2	82.2





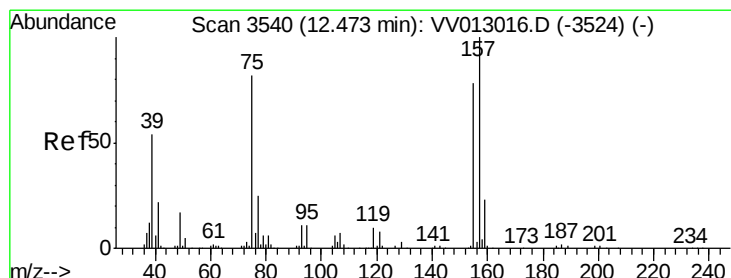
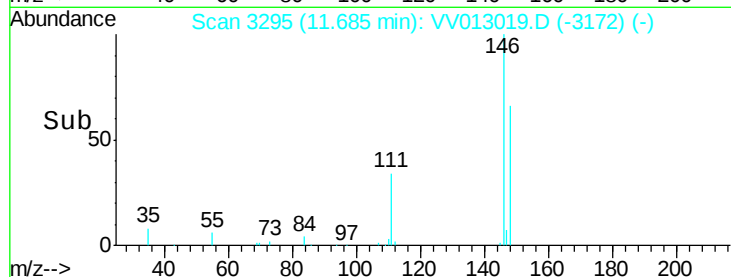
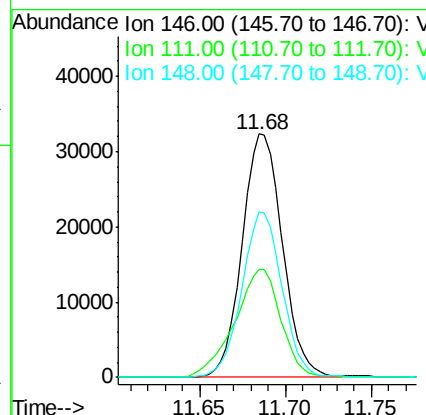
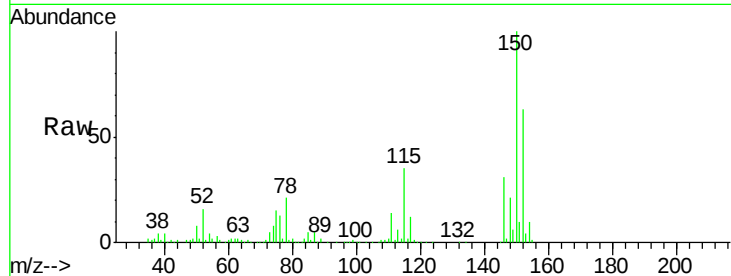
#67
 1,2-Dichlorobenzene
 Concen: 2.090 ug/L
 RT: 11.68 min Scan# 3295
 Delta R.T. -0.00 min
 Lab File: VV013019.D
 Acq: 30 Sep 2019 15:51

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.5	32.0	48.0
148	67.8	50.8	76.2

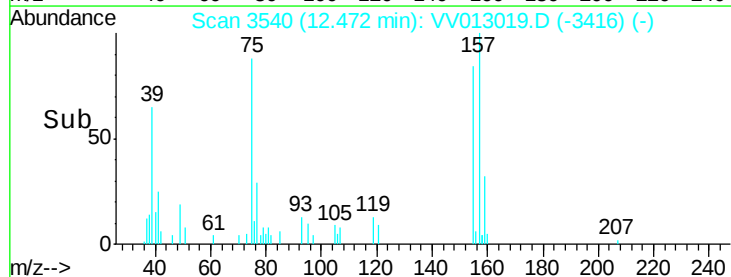
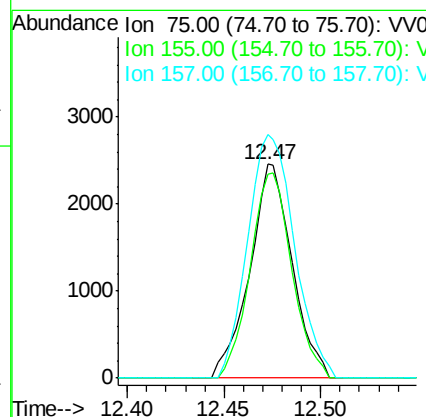
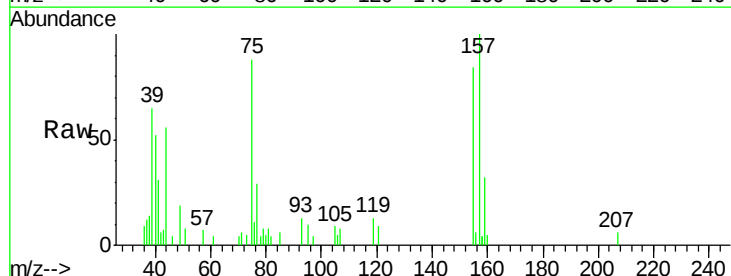
Manual Integrations
 APPROVED

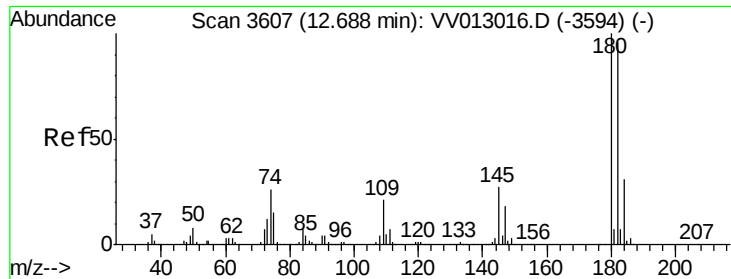
MMDadoda
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#68
 1,2-Dibromo-3-chloropropane
 Concen: 1.829 ug/L
 RT: 12.47 min Scan# 3540
 Delta R.T. -0.00 min
 Lab File: VV013019.D
 Acq: 30 Sep 2019 15:51

Tgt Ion	Ratio	Lower	Upper
75	100		
155	95.1	74.4	111.6
157	113.9	95.8	143.6





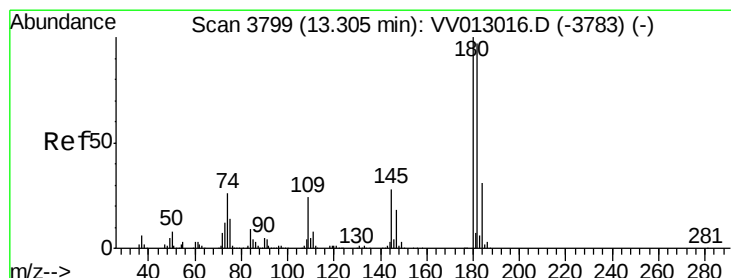
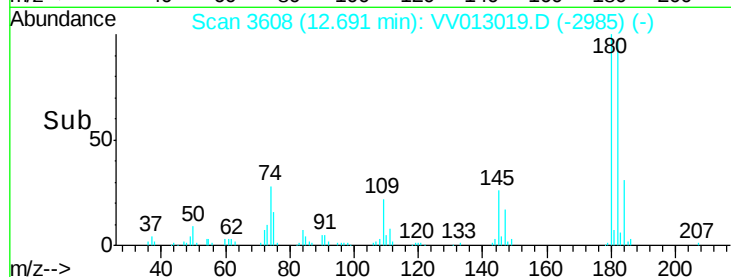
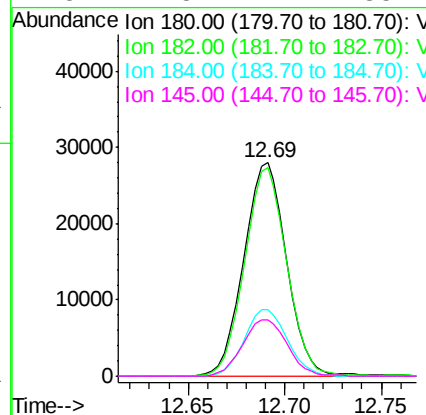
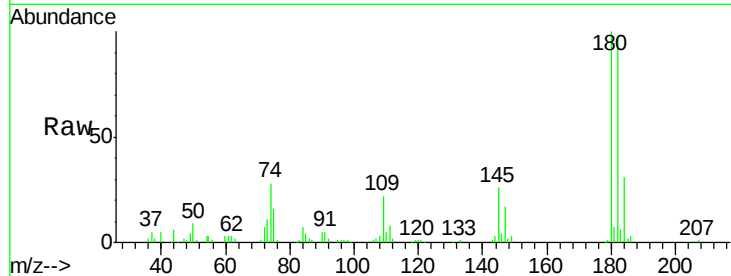
#69
 1,3,5-Trichlorobenzene
 Concen: 2.029 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV013019.D
 Acq: 30 Sep 2019 15:51

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.6	115.0
184	31.3	24.6	37.0
145	27.8	22.2	33.4

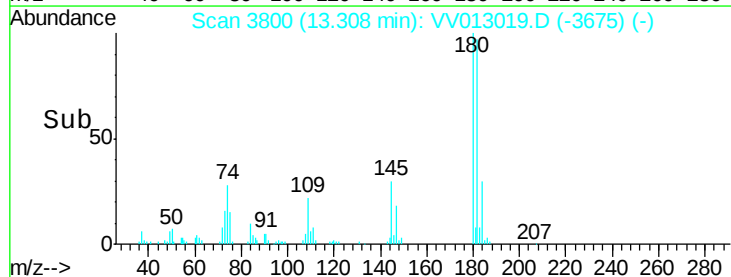
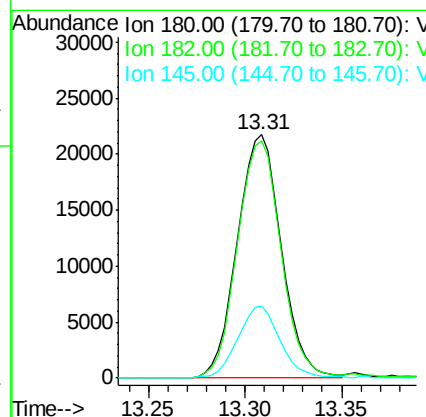
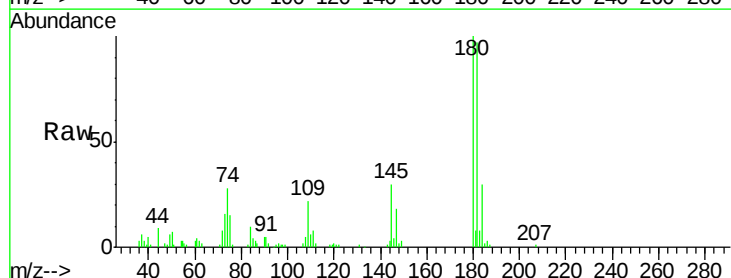
Manual Integrations
 APPROVED

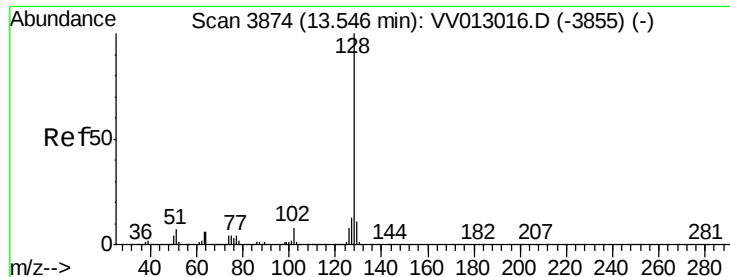
MMDadoda
 10/9/2019 3:10:17 PM



#70
 1,2,4-trichlorobenzene
 Concen: 1.881 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. 0.00 min
 Lab File: VV013019.D
 Acq: 30 Sep 2019 15:51

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.2	76.0	114.0
145	28.5	22.5	33.7





#71

Naphthalene

Concen: 1.602 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 15:51

Instrument :

MSVOA_V

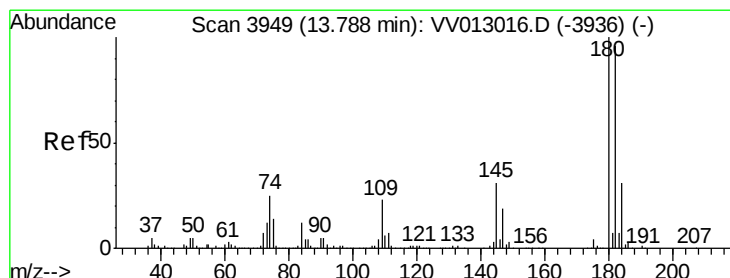
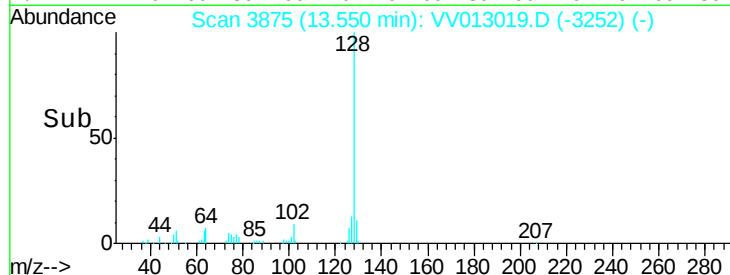
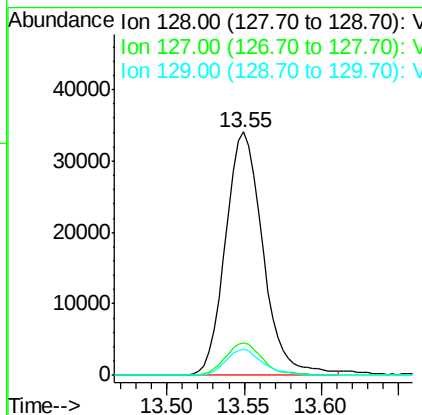
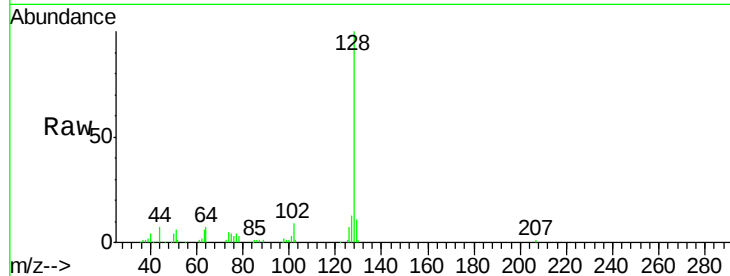
ClientSampleId :

MDL01

Tot Ion:	128	Resp:	57218
Ion Ratio	Lower	Upper	
128	100		
127	13.2	10.2	15.4
129	10.4	8.6	12.8

Manual Integrations
APPROVED

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#72

1,2,3-Trichlorobenzene

Concen: 1.948 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. -0.00 min

Lab File: VV013019.D

Acq: 30 Sep 2019 15:51

Tgt Ion:	180	Resp:	34463
Ion Ratio	Lower	Upper	
180	100		
182	92.7	76.7	115.1
145	30.5	24.2	36.4

