

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL122017\
 Data File : VL031295.D
 Acq On : 21 Dec 2017 7:48
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 12/22/2017 4:55:14 PM

Quant Time: Dec 22 07:27:25 2017
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL121317AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Dec 14 2017
 QLast Update : Thu Dec 14 04:29:58 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.91	49	1298932	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.46	114	3270332	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.42	117	3531393m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.75	95	2527326	10.06	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.18	85	2258155	20.58	ppbv	100
3) Chlorodifluoromethane	3.11	51	1384788	9.38	ppbv	98
4) Chloromethane	3.28	50	851897	10.68	ppbv	99
5) Vinyl Chloride	3.40	62	814636	9.87	ppbv	99
6) Bromomethane	3.63	94	532990	10.90	ppbv	99
7) Chloroethane	3.72	64	323640	10.59	ppbv	99
8) Dichlorotetrafluoroethane	3.32	85	1943974	12.76	ppbv	97
9) Propene	3.14	41	705262	9.73	ppbv	98
10) Heptane	8.41	43	2068830	9.38	ppbv	99
11) Trichlorofluoromethane	4.13	101	2055368	11.40	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.68	101	1284503	10.16	ppbv	96
13) Ethanol	3.77	45	150356	7.19	ppbv	100
14) Bromoethene	3.91	108	606750	11.17	ppbv	98
15) Acetone	4.02	43	1717257	10.02	ppbv	100
16) 1,3-Butadiene	3.47	39	753312	10.21	ppbv	100
17) tert-Butyl alcohol	4.49	59	632441	6.57	ppbv	99
18) 1,1-Dichloroethene	4.48	96	606083	10.71	ppbv	94
19) Isopropyl Alcohol	4.15	45	928982	8.56	ppbv #	43
20) Methylene Chloride	4.54	84	549387	9.68	ppbv	95
21) Allyl Chloride	4.61	41	965147	9.57	ppbv	96
22) trans-1,2-Dichloroethene	5.10	96	668866	9.61	ppbv	97
23) Vinyl Acetate	5.30	43	2352494	8.52	ppbv	98
24) 1,1-Dichloroethane	5.23	63	1887591	9.41	ppbv	100
25) Ethyl Acetate	5.92	43	3184752	9.09	ppbv	99
26) Hexane	5.93	57	1495499	9.00	ppbv	98
27) Carbon Disulfide	4.76	76	1573642	9.46	ppbv	100
28) Methyl tert-Butyl Ether	5.25	73	1815688	8.36	ppbv	98
29) Chloroform	6.00	83	2280471	10.17	ppbv	100
30) Cyclohexane	7.41	84	1276684	8.73	ppbv	98
31) cis-1,2-Dichloroethene	5.79	61	1409164	9.35	ppbv	96
32) 1,1,1-Trichloroethane	6.78	97	2217092	9.25	ppbv	98
34) 2-Butanone	5.47	43	2169755	9.39	ppbv	98
35) Carbon Tetrachloride	7.30	117	2304172	9.84	ppbv	99
36) Benzene	7.17	78	3094993	8.93	ppbv	99
37) 1,2-Dichloroethane	6.57	62	1877307	9.82	ppbv	98
38) Trichloroethene	8.13	130	1196883	8.85	ppbv	97
39) 1,2-Dichloropropane	7.90	63	1150571	9.39	ppbv	97
40) 1,4-Dioxane	8.12	88	436212	9.86	ppbv #	97
41) Tetrahydrofuran	6.30	42	1209094	9.31	ppbv	99
42) Bromodichloromethane	8.08	83	2411330	10.70	ppbv	100
43) Methyl Methacrylate	8.30	69	1155351	9.95	ppbv	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.16	57	4993874	9.54	ppbv	99
45) t-1,3-Dichloropropene	9.58	75	1550915	9.77	ppbv	99
46) cis-1,3-Dichloropropene	9.01	75	1889264	9.46	ppbv	100
47) 1,1,2-Trichloroethane	9.79	97	1304385	10.26	ppbv	98
48) Dibromochloromethane	10.63	129	2101993	10.59	ppbv	100
49) Bromoform	13.38	173	1535421	10.48	ppbv	100
50) 4-Methyl-2-Pentanone	9.04	43	2736299	9.68	ppbv	98
51) 2-Hexanone	10.44	43	2570055	9.53	ppbv #	97
52) Tetrachloroethene	11.55	164	1136271	8.89	ppbv	95
53) Toluene	10.12	91	3682648	9.79	ppbv	99
54) 1,2-Dibromoethane	10.94	107	1983022	10.29	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.46	131	1433964	9.10	ppbv #	64
57) Chlorobenzene	12.48	112	2798277	8.50	ppbv	99
58) Ethyl Benzene	13.04	91	5028459	8.62	ppbv	99
59) m/p-Xylene	13.33	91	7871477m	16.86	ppbv	
60) o-Xylene	14.03	91	3957750	8.41	ppbv	99
61) Styrene	13.86	104	1097397	8.13	ppbv	98
62) Isopropylbenzene	15.00	105	5252609	8.51	ppbv	99
63) 1,1,2,2-Tetrachloroethane	14.01	83	2623829	8.32	ppbv	98
64) n-propylbenzene	15.90	120	1387450	8.47	ppbv	92
65) tert-Butylbenzene	17.08	119	4528995	8.29	ppbv	99
66) Benzyl Chloride	17.33	91	357833	6.08	ppbv	97
67) sec-Butylbenzene	17.63	105	6385684	8.50	ppbv	99
69) p-Isopropyltoluene	17.99	119	5220184	8.33	ppbv	99
70) n-Butylbenzene	18.89	91	5287403	8.75	ppbv	99
71) 2-Chlorotoluene	15.79	91	3958336	8.65	ppbv	99
72) 4-Ethyltoluene	16.17	105	4311624	8.37	ppbv	99
73) 1,3,5-Trimethylbenzene	16.33	105	3861060	8.42	ppbv	99
74) 1,2,4-Trimethylbenzene	17.10	105	3955986	8.20	ppbv	97
75) 1,3-Dichlorobenzene	17.34	146	2464108	8.06	ppbv	98
76) 1,4-Dichlorobenzene	17.48	146	2489504	8.05	ppbv	99
77) 1,2-Dichlorobenzene	18.17	146	2478852	8.29	ppbv	98
78) Hexachloro-1,3-Butadiene	23.71	225	1046756	15.24	ppbv	99
79) Naphthalene	22.61	128	3101588	7.94	ppbv	99
80) Naphthalene, 2-methyl-	25.25	142	727157	5.00	ppbv	96
81) 1,2,4-Trichlorobenzene	22.34	180	1403377	7.72	ppbv	99

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

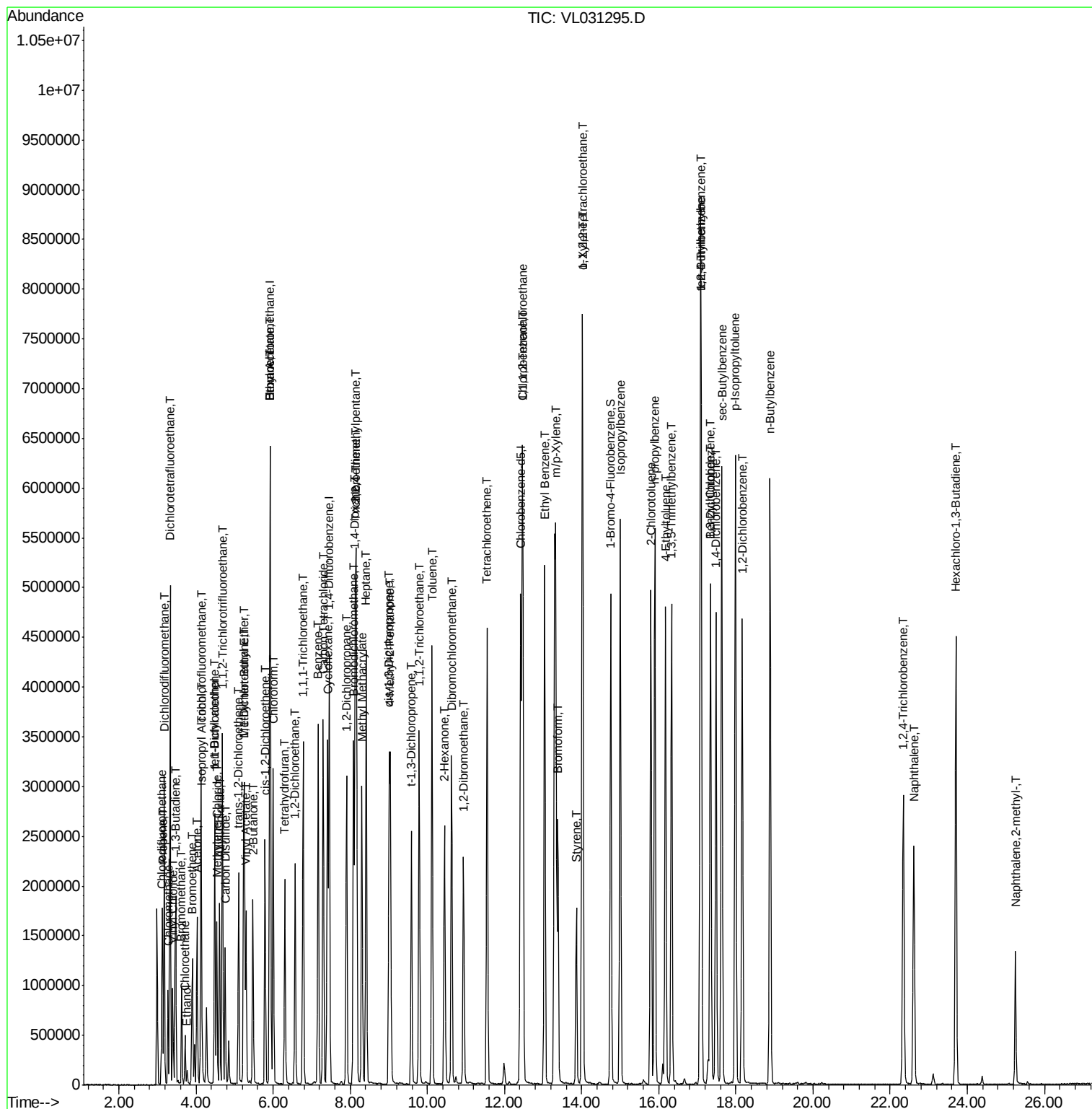
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ALS Vial  : 1    Sample Multiplier: 1
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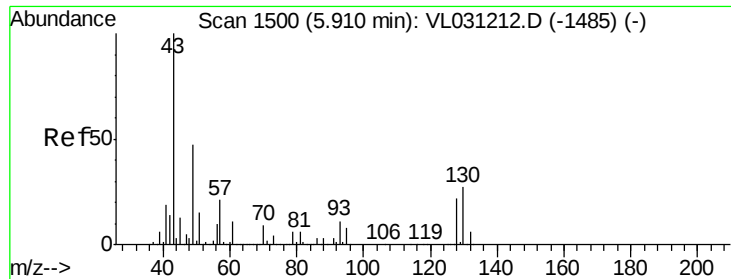
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Manual Integrations APPROVED

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.91 min Scan# 1501

Delta R.T. 0.00 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 1298932

Ion Ratio Lower Upper

49 100

128 47.9 23.2 69.5

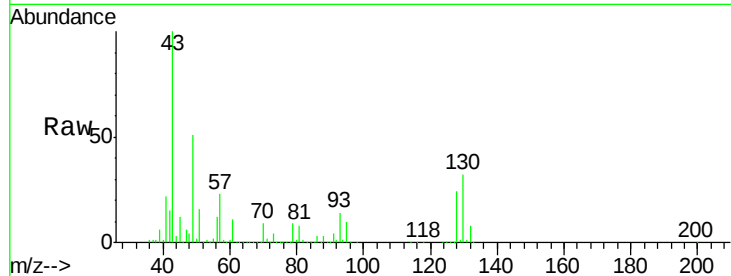
130 61.4 29.6 88.8

Manual Integrations

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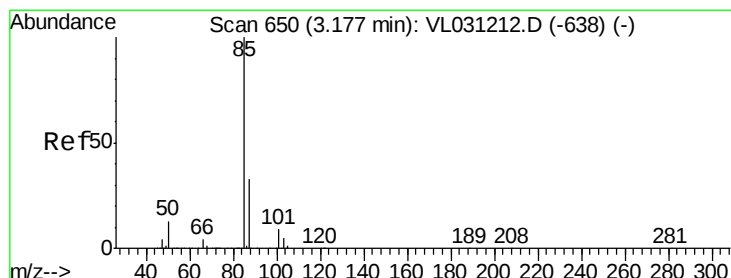
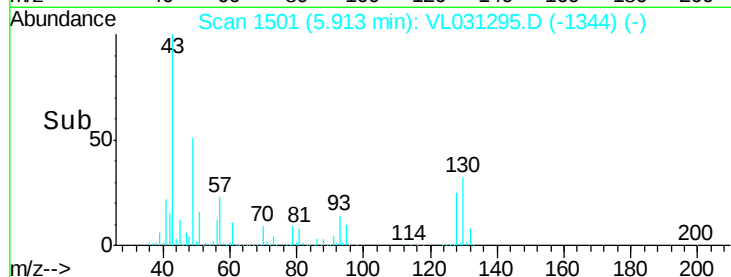
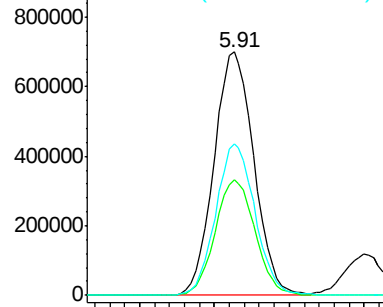
12/22/2017 4:55:14 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 20.58 ppbv

RT: 3.18 min Scan# 651

Delta R.T. 0.00 min

Lab File: VL031295.D

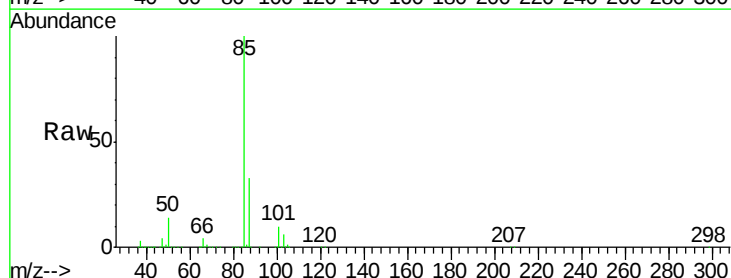
Acq: 21 Dec 2017 7:48

Tgt Ion: 85 Resp: 2258155

Ion Ratio Lower Upper

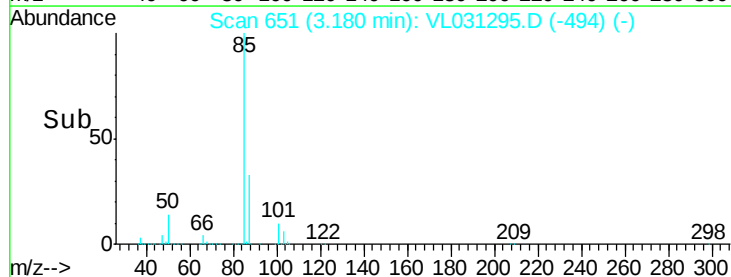
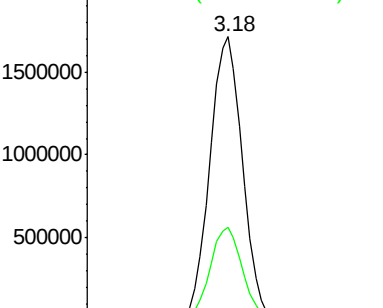
85 100

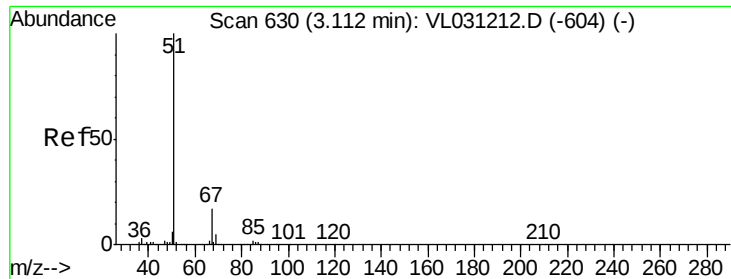
87 32.5 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.38 ppbv

RT: 3.11 min Scan# 630

Delta R.T. 0.00 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

Tot Ion: 51 Resp: 1384788

Ion Ratio Lower Upper

51 100

67 18.2 13.8 20.6

Instrument :

MSVOA_L

ClientSampleId :

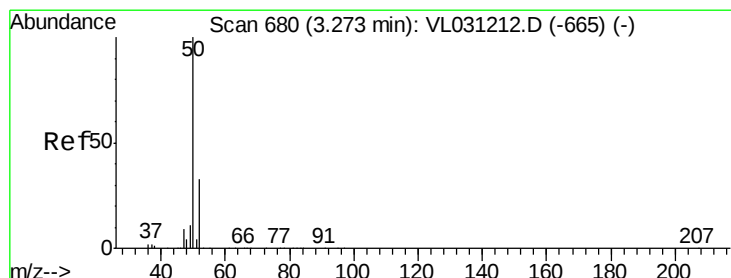
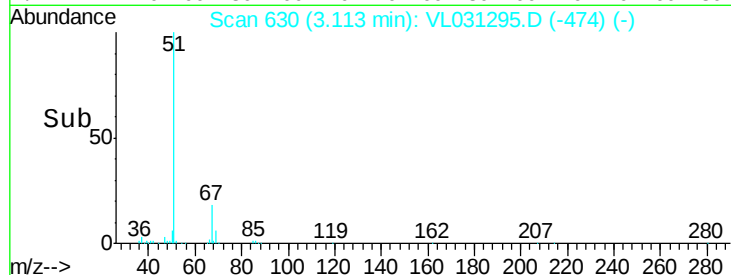
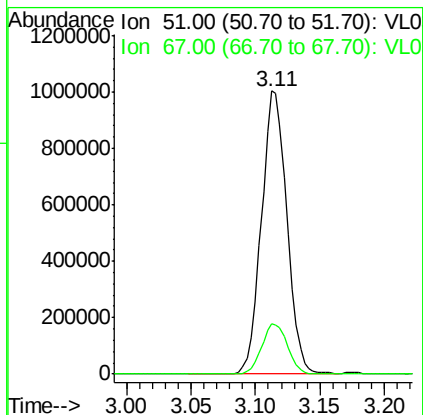
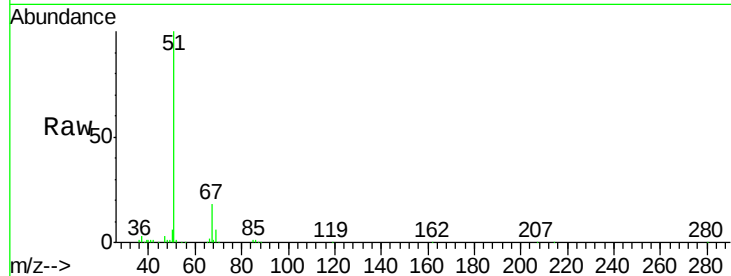
VSTDCCC010EC

Manual Integrations

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#4

Chloromethane

Concen: 10.68 ppbv

RT: 3.28 min Scan# 681

Delta R.T. 0.00 min

Lab File: VL031295.D

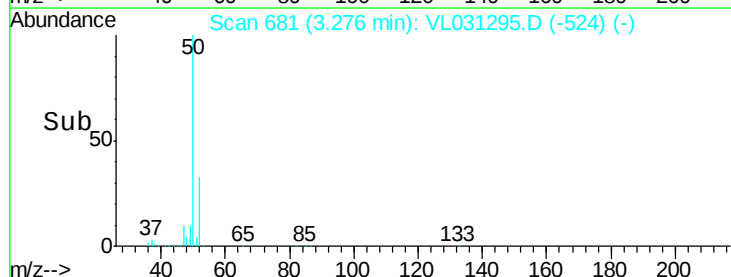
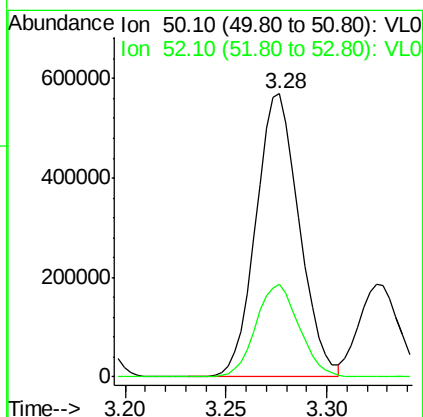
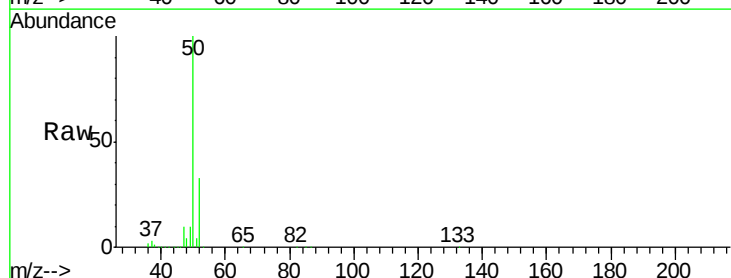
Acq: 21 Dec 2017 7:48

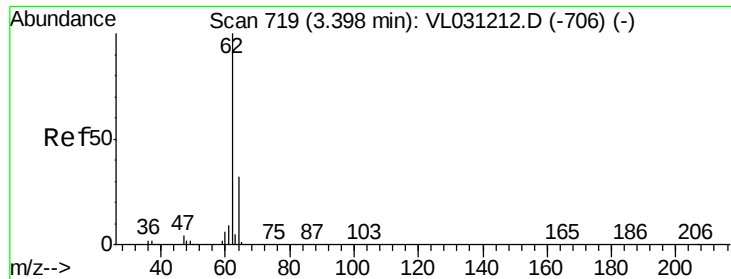
Tgt Ion: 50 Resp: 851897

Ion Ratio Lower Upper

50 100

52 32.7 26.5 39.7





#5

Vinyl Chloride

Concen: 9.87 ppbv

RT: 3.40 min Scan# 719

Delta R.T. 0.00 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 814636

Ion Ratio Lower Upper

62 100

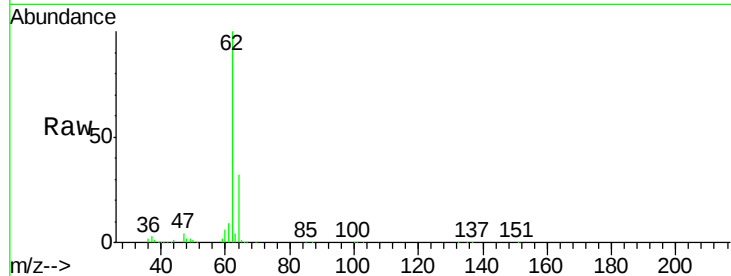
64 31.9 25.9 38.9

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.40

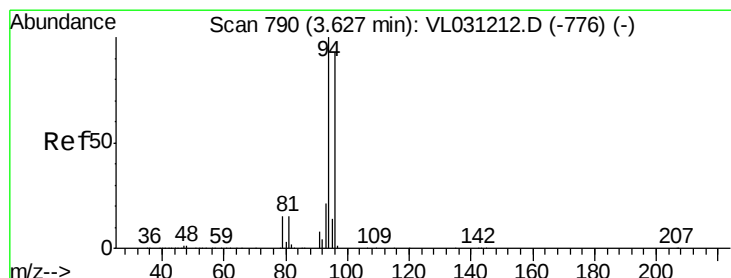
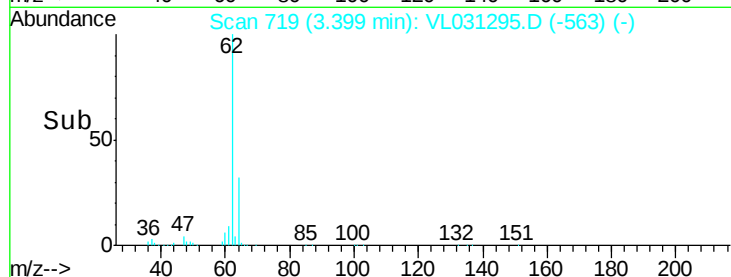
600000

400000

200000

0

Time-->



#6

Bromomethane

Concen: 10.90 ppbv

RT: 3.63 min Scan# 791

Delta R.T. 0.00 min

Lab File: VL031295.D

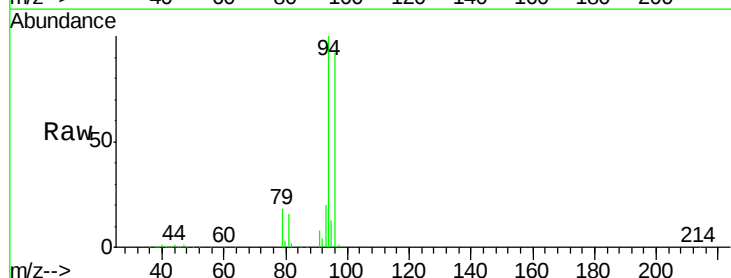
Acq: 21 Dec 2017 7:48

Tgt Ion: 94 Resp: 532990

Ion Ratio Lower Upper

94 100

96 92.2 74.4 111.6



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.63

400000

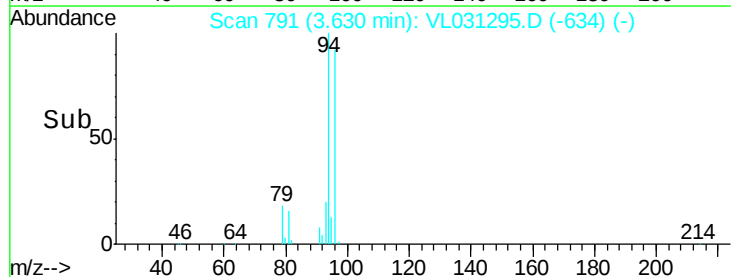
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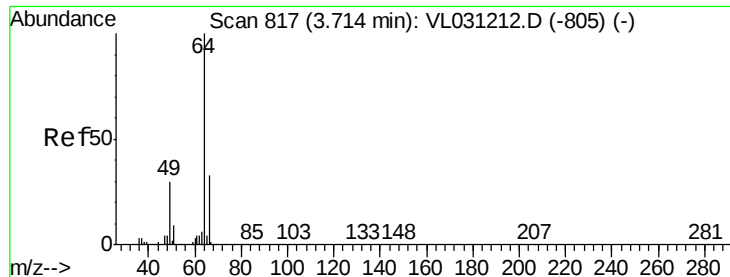
200000

100000

0

Time-->





#7

Chloroethane

Concen: 10.59 ppbv

RT: 3.72 min Scan# 818

Delta R.T. 0.00 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 323640

Ion Ratio Lower Upper

64 100

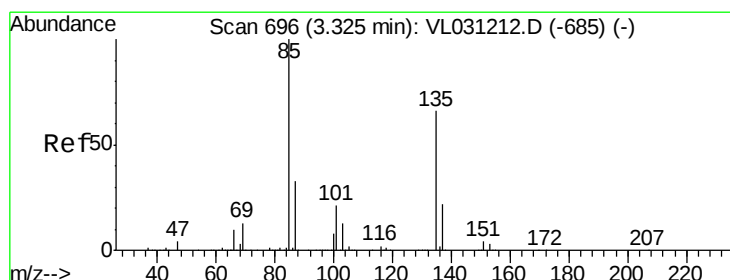
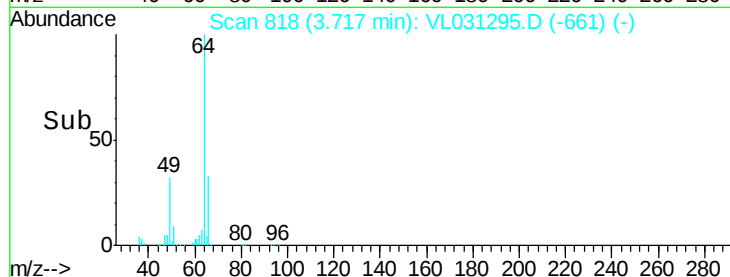
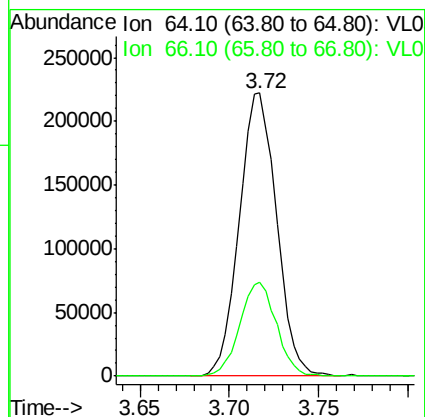
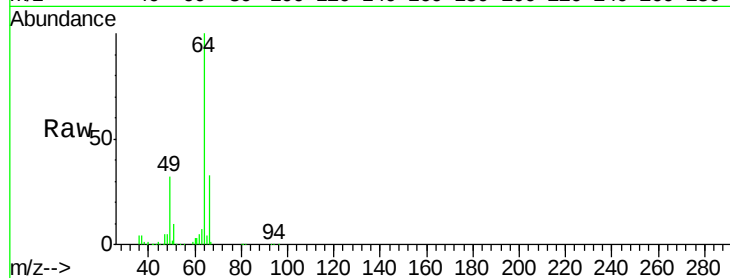
66 33.0 26.2 39.2

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 12.76 ppbv

RT: 3.32 min Scan# 696

Delta R.T. 0.00 min

Lab File: VL031295.D

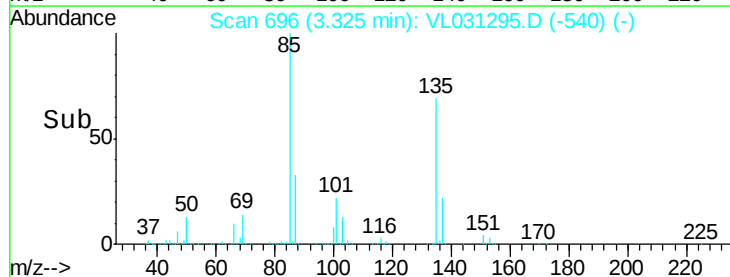
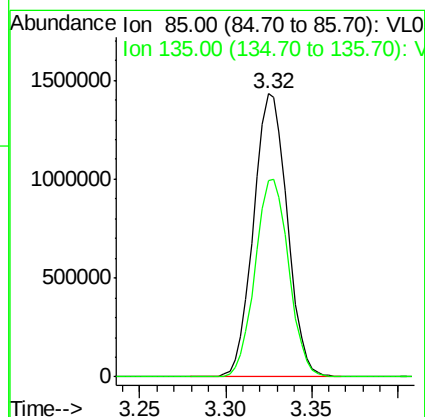
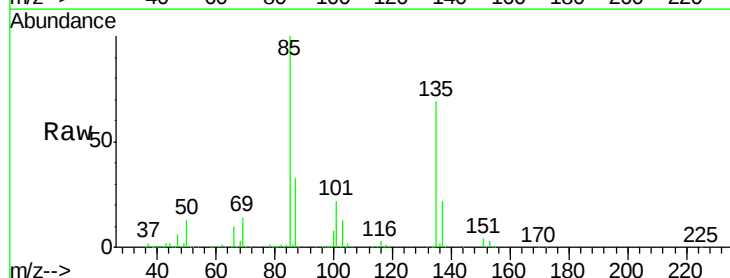
Acq: 21 Dec 2017 7:48

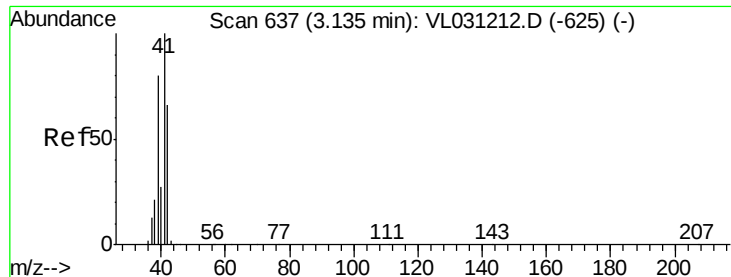
Tgt Ion: 85 Resp: 1943974

Ion Ratio Lower Upper

85 100

135 70.0 54.0 81.0





#9

Propene

Concen: 9.73 ppbv

RT: 3.14 min Scan# 638

Delta R.T. 0.00 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 705262

Ion Ratio Lower Upper

41 100

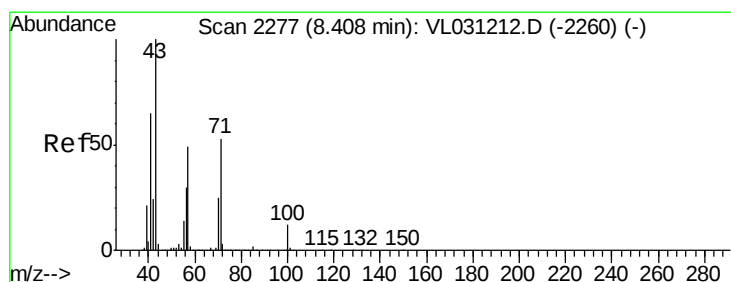
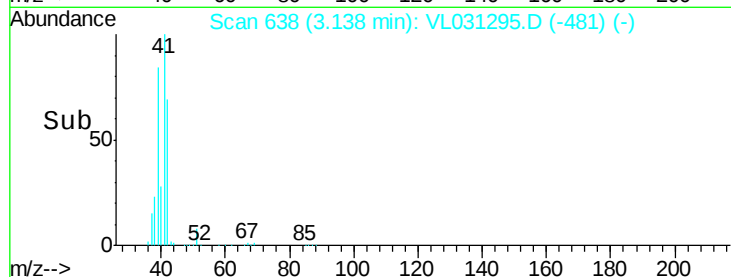
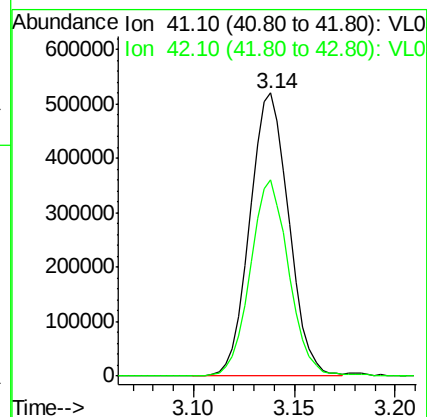
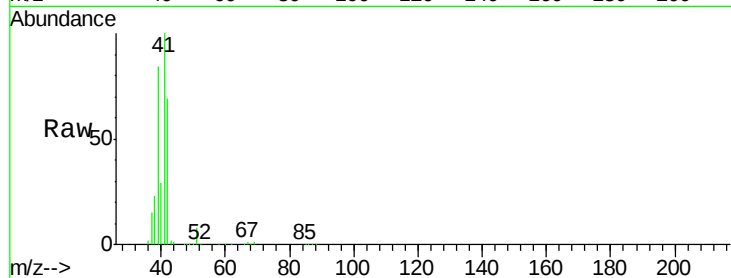
42 69.1 54.3 81.5

Manual Integrations

APPROVED

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#10

Heptane

Concen: 9.38 ppbv

RT: 8.41 min Scan# 2279

Delta R.T. 0.01 min

Lab File: VL031295.D

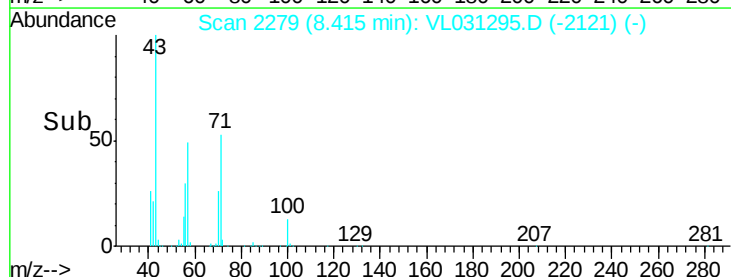
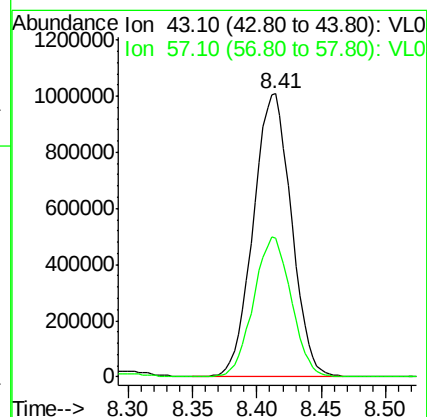
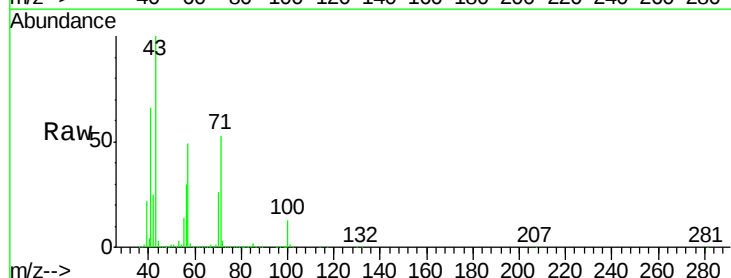
Acq: 21 Dec 2017 7:48

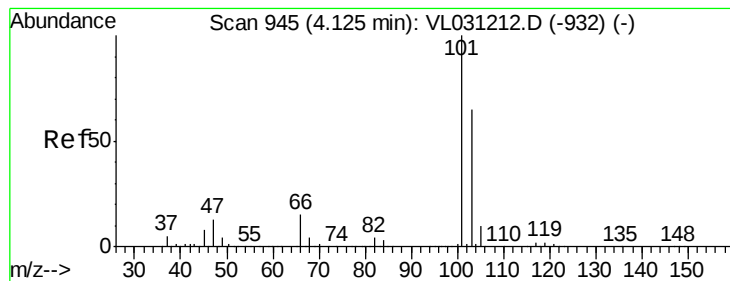
Tgt Ion: 43 Resp: 2068830

Ion Ratio Lower Upper

43 100

57 48.9 39.8 59.8





#11

Trichlorofluoromethane

Concen: 11.40 ppbv

RT: 4.13 min Scan# 946

Delta R.T. 0.00 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:101 Resp: 2055368

Ion Ratio Lower Upper

101 100

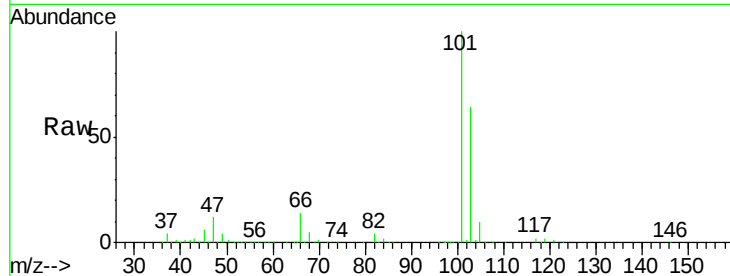
103 64.1 51.8 77.8

Manual Integrations

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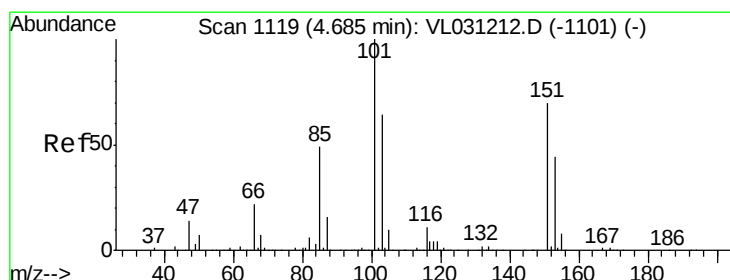
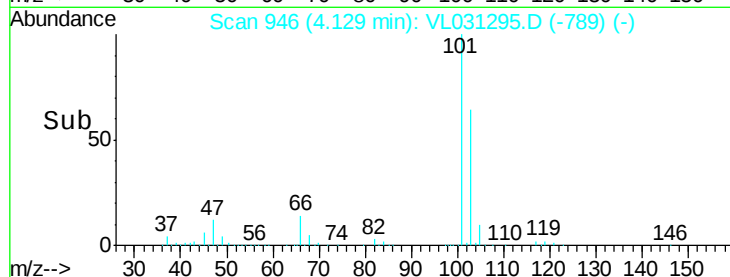
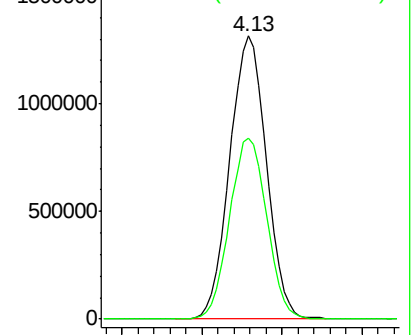
MMDadoda

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 10.16 ppbv

RT: 4.68 min Scan# 1119

Delta R.T. 0.00 min

Lab File: VL031295.D

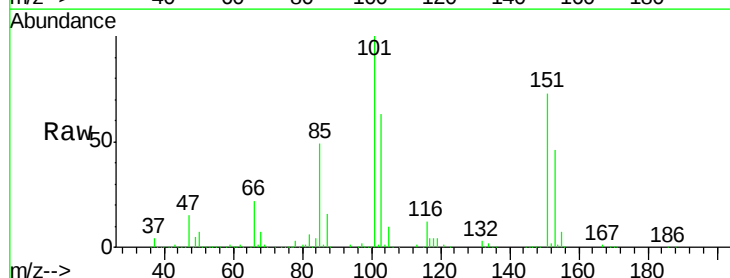
Acq: 21 Dec 2017 7:48

Tgt Ion:101 Resp: 1284503

Ion Ratio Lower Upper

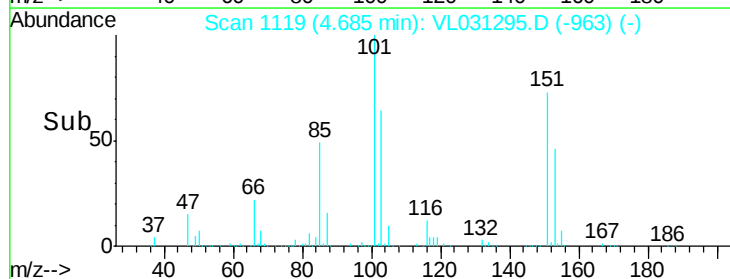
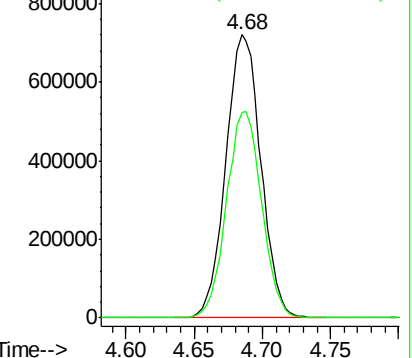
101 100

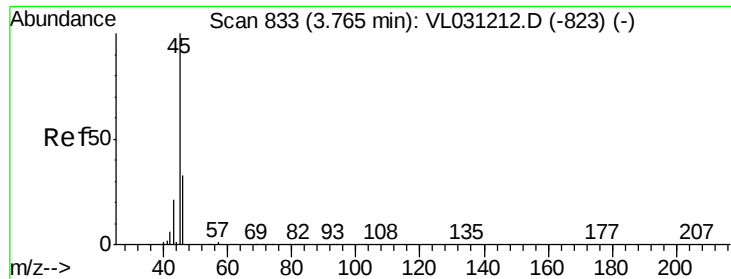
151 73.5 56.5 84.7



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 7.19 ppbv

RT: 3.77 min Scan# 834

Delta R.T. 0.00 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 150356

Ion Ratio Lower Upper

45 100

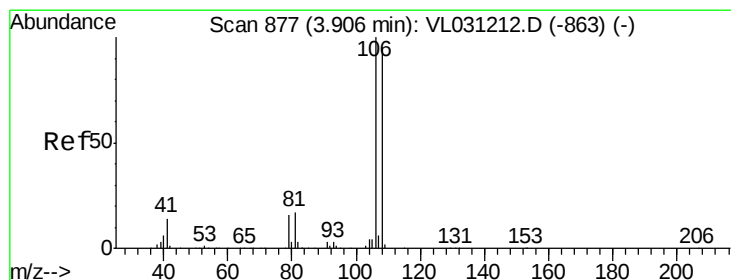
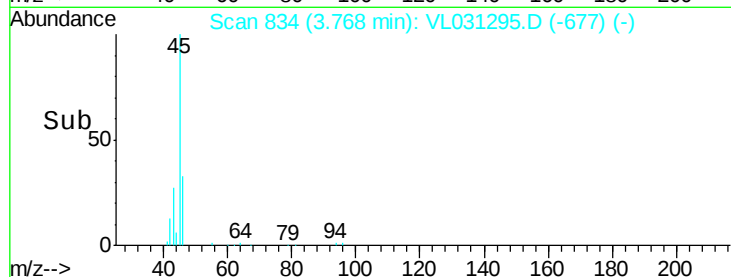
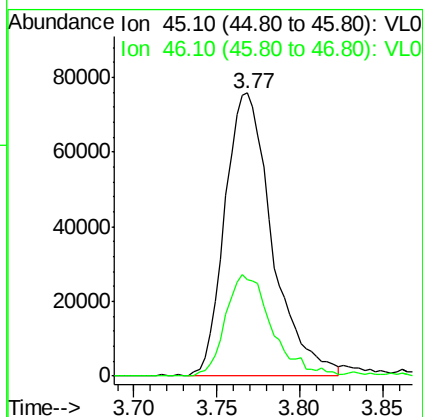
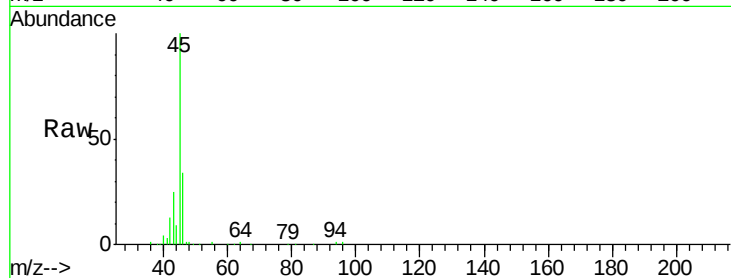
46 36.6 14.6 58.4

Manual Integrations

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#14

Bromoethene

Concen: 11.17 ppbv

RT: 3.91 min Scan# 877

Delta R.T. 0.00 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

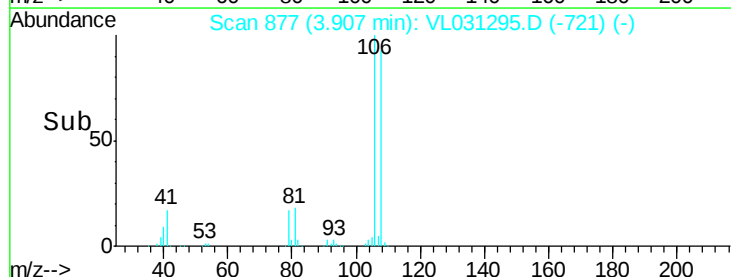
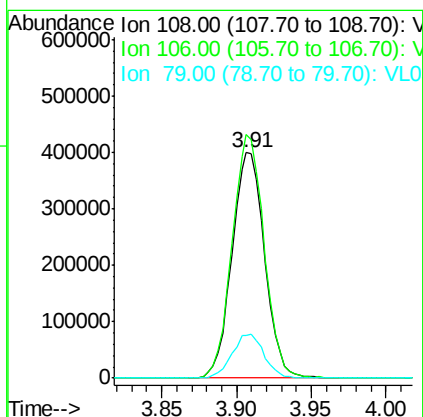
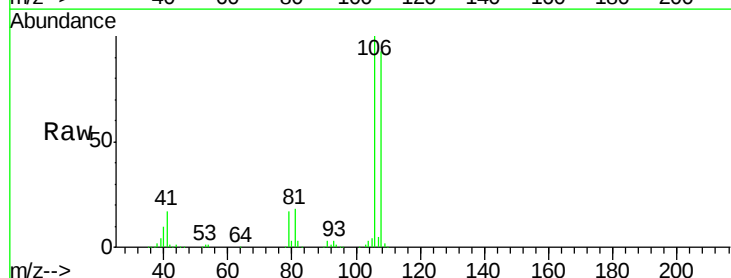
Tgt Ion: 108 Resp: 606750

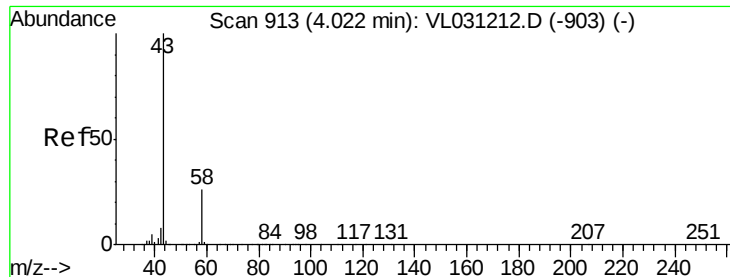
Ion Ratio Lower Upper

108 100

106 106.3 86.5 129.7

79 19.3 14.2 21.4





#15

Acetone

Concen: 10.02 ppbv

RT: 4.02 min Scan# 913

Delta R.T. 0.00 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1717257

Ion Ratio Lower Upper

43 100

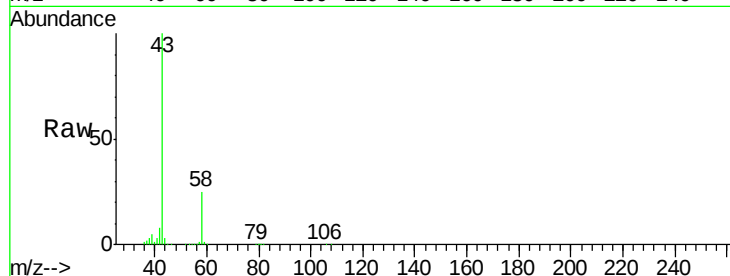
58 25.6 20.3 30.5

Manual Integrations

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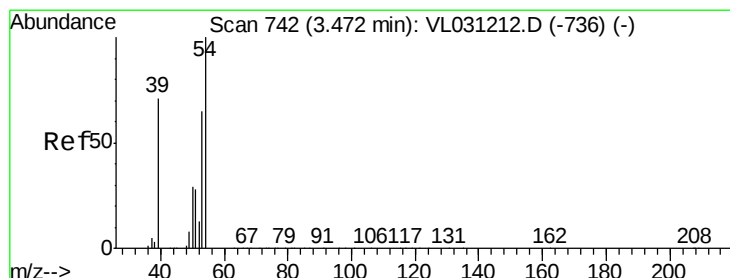
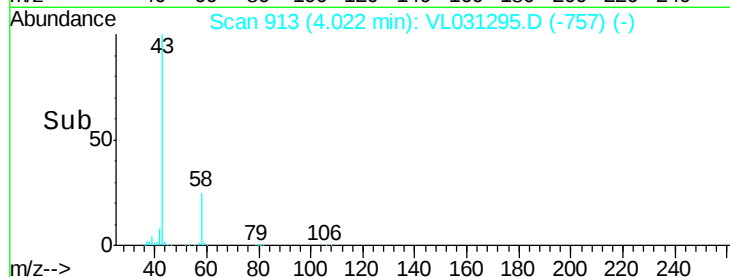
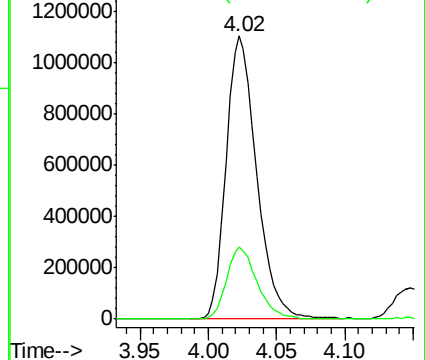
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 10.21 ppbv

RT: 3.47 min Scan# 742

Delta R.T. 0.00 min

Lab File: VL031295.D

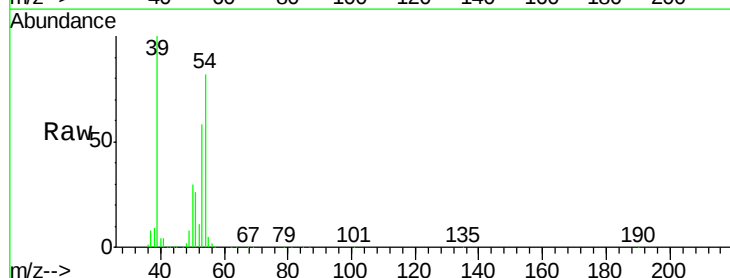
Acq: 21 Dec 2017 7:48

Tgt Ion: 39 Resp: 753312

Ion Ratio Lower Upper

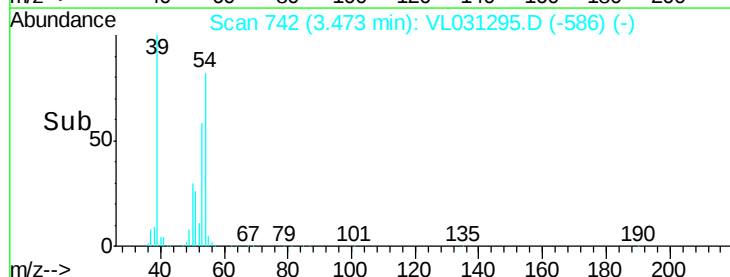
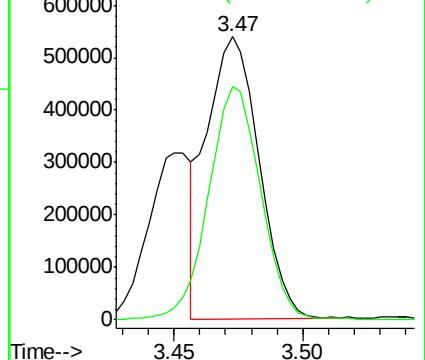
39 100

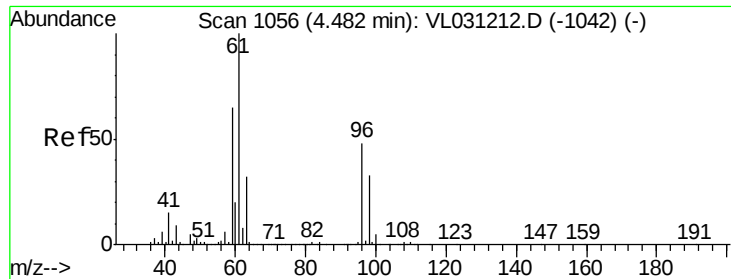
54 83.4 66.4 99.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





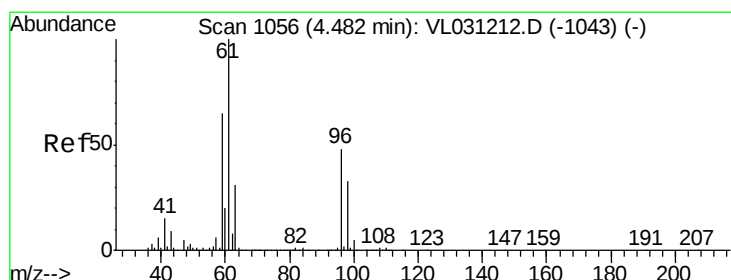
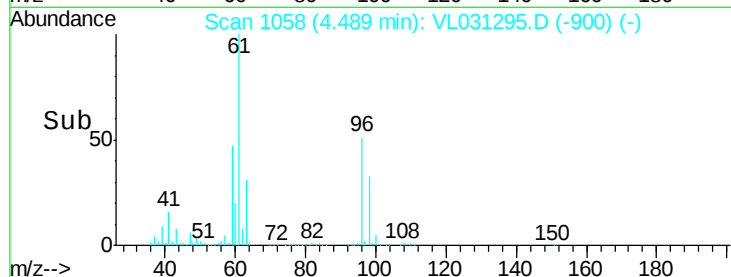
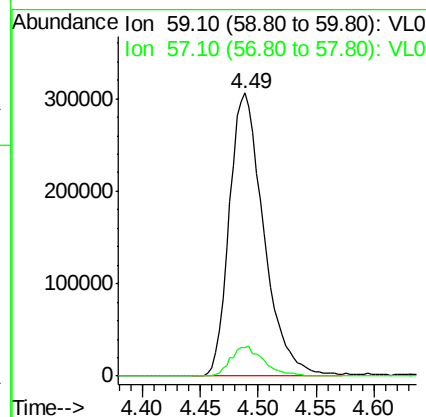
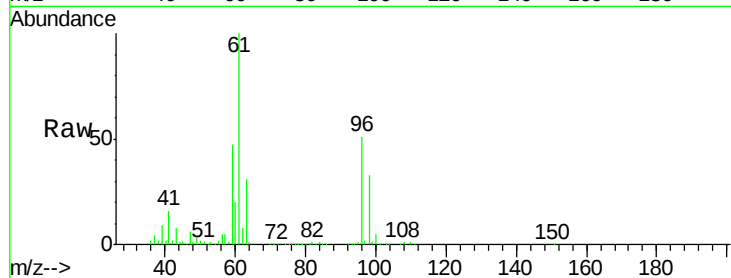
#17
 tert-Butyl alcohol
 Concen: 6.57 ppbv
 RT: 4.49 min Scan# 1058
 Delta R.T. 0.01 min
 Lab File: VL031295.D
 Acq: 21 Dec 2017 7:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.4	8.2	12.2

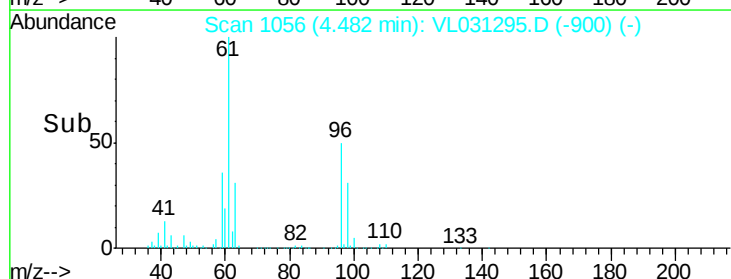
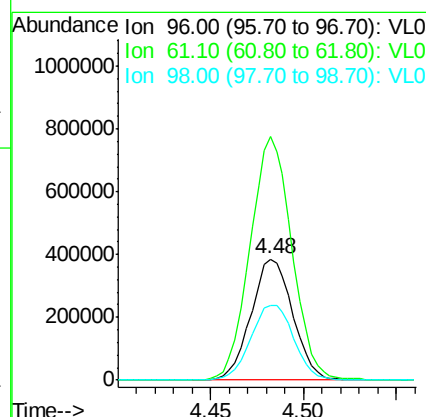
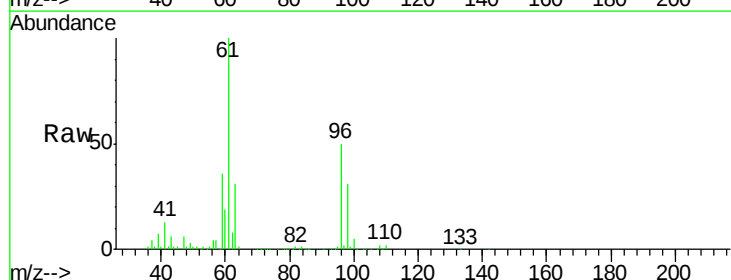
Manual Integrations
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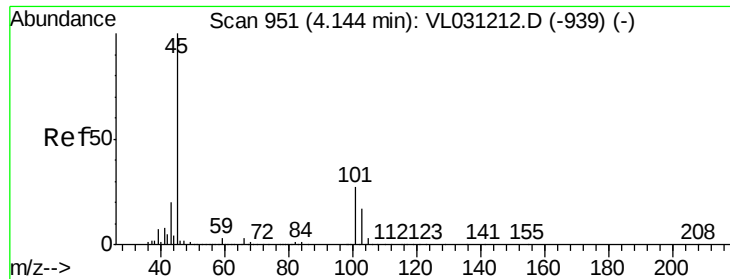
MMDadoda
 12/22/2017 4:55:14 PM



#18
 1,1-Dichloroethene
 Concen: 10.71 ppbv
 RT: 4.48 min Scan# 1056
 Delta R.T. 0.00 min
 Lab File: VL031295.D
 Acq: 21 Dec 2017 7:48

Tgt Ion	Ratio	Lower	Upper
96	100		
61	201.4	166.8	250.2
98	62.0	55.0	82.6





#19

Isopropyl Alcohol

Concen: 8.56 ppbv

RT: 4.15 min Scan# 952

Delta R.T. 0.00 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 928982

Ion Ratio Lower Upper

45 100

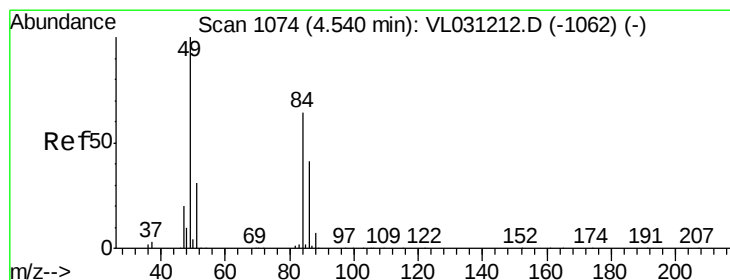
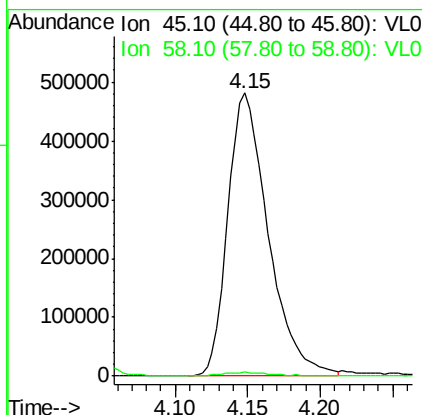
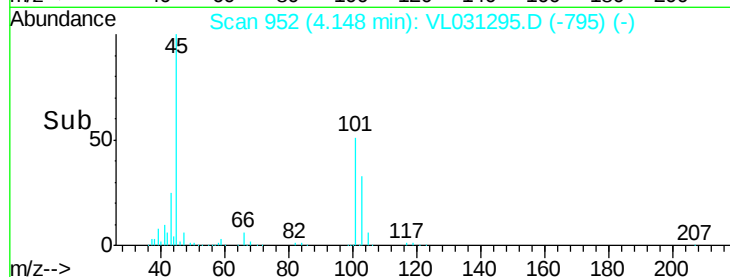
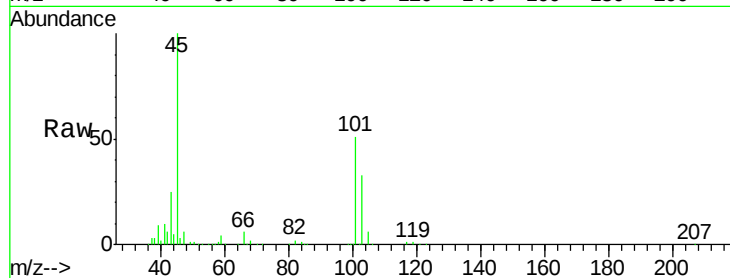
58 1.6 27.2 40.8#

Manual Integrations

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#20

Methylene Chloride

Concen: 9.68 ppbv

RT: 4.54 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

Tgt Ion: 84 Resp: 549387

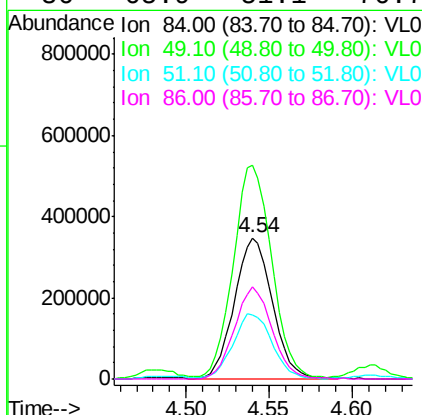
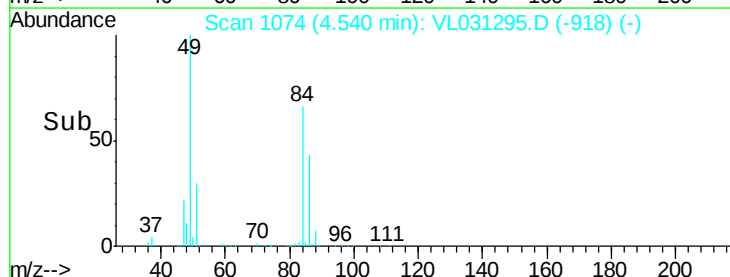
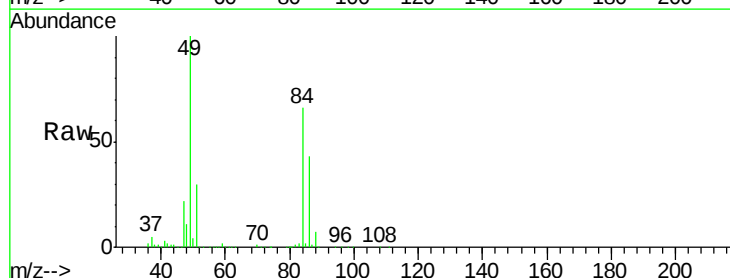
Ion Ratio Lower Upper

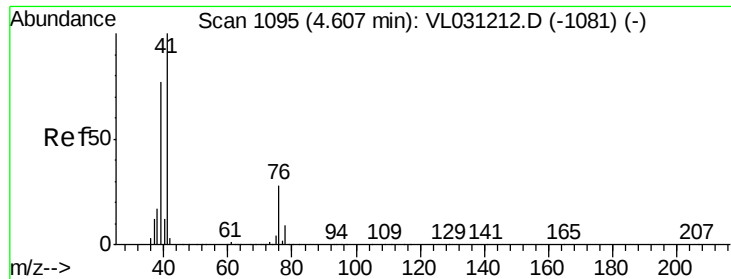
84 100

49 150.5 125.8 188.6

51 44.6 39.3 58.9

86 65.9 51.1 76.7





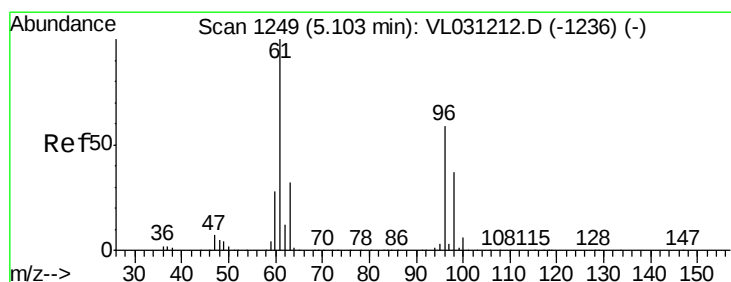
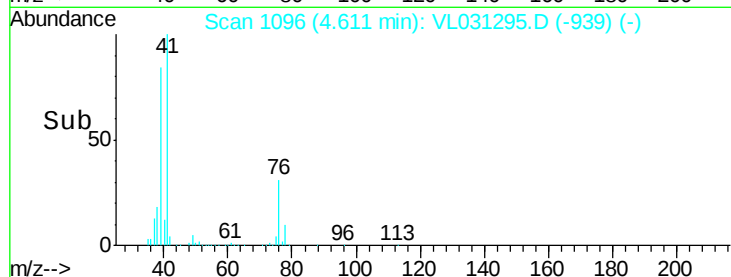
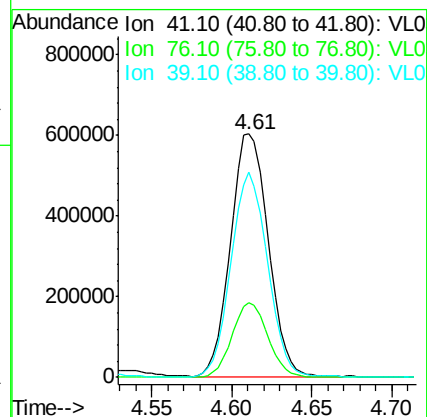
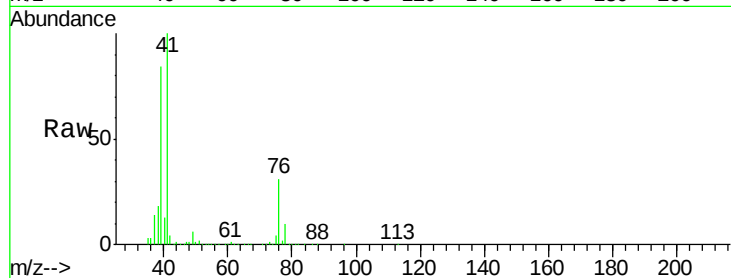
#21
Allvl Chloride
Concen: 9.57 ppbv
RT: 4.61 min Scan# 1096
Delta R.T. 0.00 min
Lab File: VL031295.D
Acq: 21 Dec 2017 7:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	29.4	22.9	34.3
39	82.4	62.6	93.8

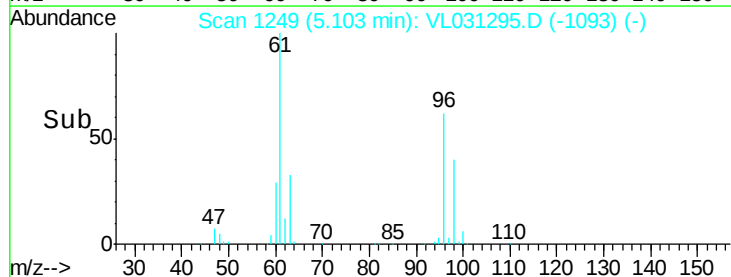
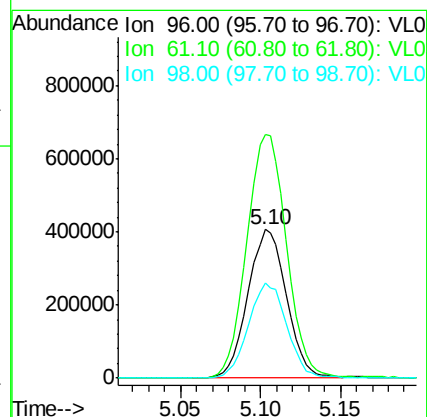
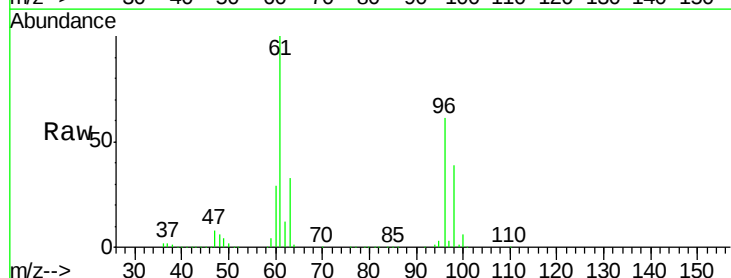
Manual Integrations
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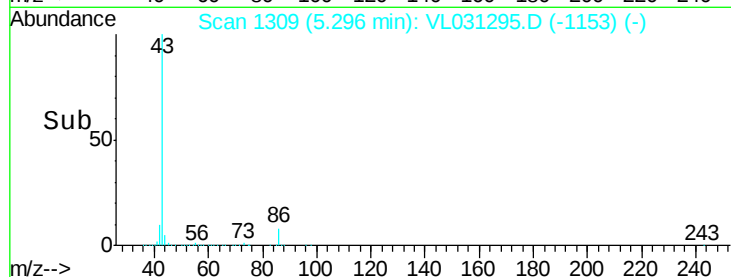
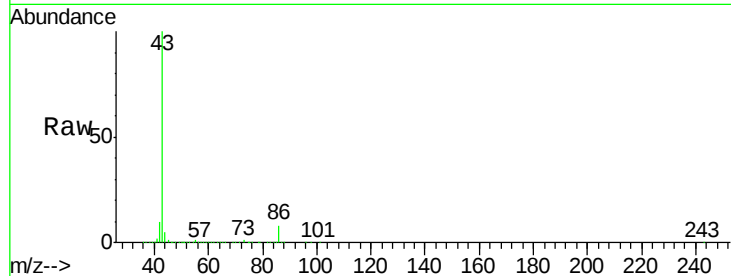
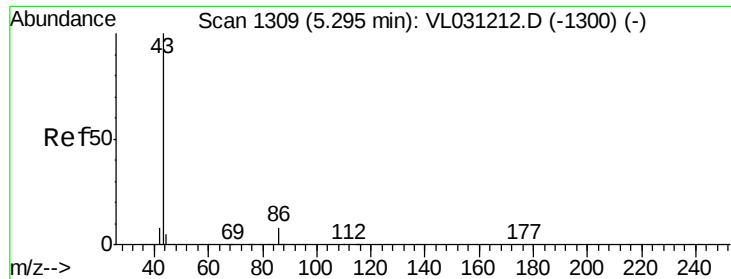
MMDadoda
12/22/2017 4:55:14 PM



#22
trans-1,2-Dichloroethene
Concen: 9.61 ppbv
RT: 5.10 min Scan# 1249
Delta R.T. 0.00 min
Lab File: VL031295.D
Acq: 21 Dec 2017 7:48

Tgt Ion	Ratio	Lower	Upper
96	100		
61	163.7	135.0	202.4
98	64.3	50.5	75.7





#23
 Vinyl Acetate
 Concen: 8.52 ppbv
 RT: 5.30 min Scan# 1309
 Delta R.T. 0.00 min
 Lab File: VL031295.D
 Acq: 21 Dec 2017 7:48

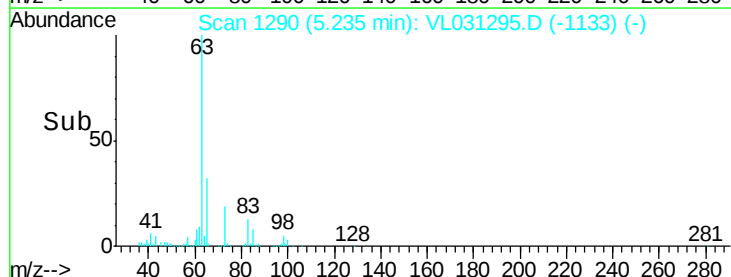
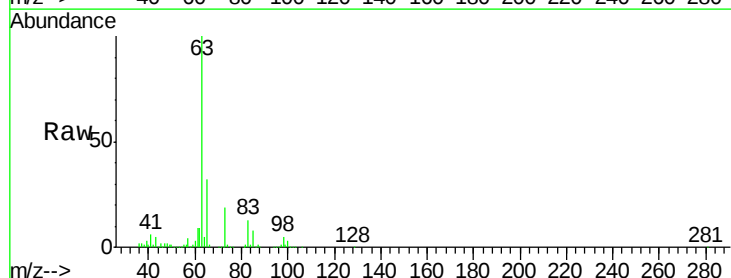
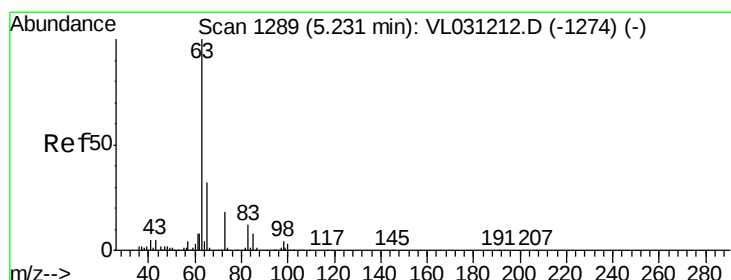
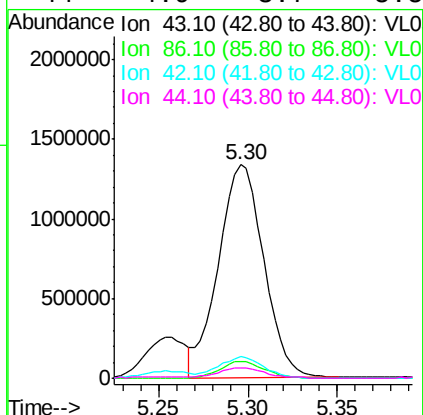
Tot Ion: 43 Resp: 2352494

Ion	Ratio	Lower	Upper
43	100		
86	7.8	5.9	8.9
42	9.9	7.3	10.9
44	4.9	3.7	5.5

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Manual Integrations
 APPROVED

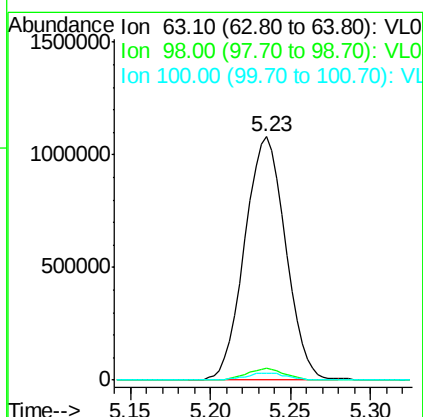
MMDadoda
 12/22/2017 4:55:14 PM

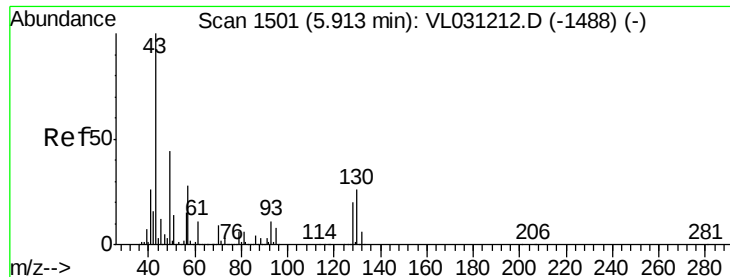


#24
 1,1-Dichloroethane
 Concen: 9.41 ppbv
 RT: 5.23 min Scan# 1290
 Delta R.T. 0.00 min
 Lab File: VL031295.D
 Acq: 21 Dec 2017 7:48

Tgt Ion: 63 Resp: 1887591

Ion	Ratio	Lower	Upper
63	100		
98	4.6	2.3	6.8
100	3.0	1.4	4.2





#25

Ethyl Acetate

Concen: 9.09 ppbv

RT: 5.92 min Scan# 1502

Delta R.T. 0.00 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 3184752

Ion Ratio Lower Upper

43 100

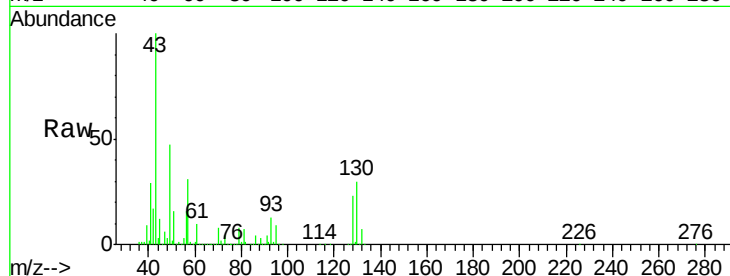
45 9.7 8.0 12.0

61 9.1 7.4 11.0

70 7.1 5.8 8.8

Manual Integrations
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MMDadoda
12/22/2017 4:55:14 PM

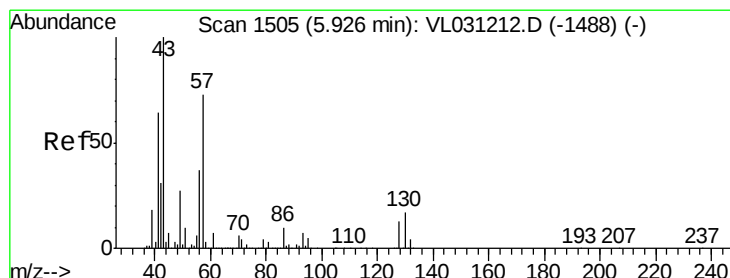
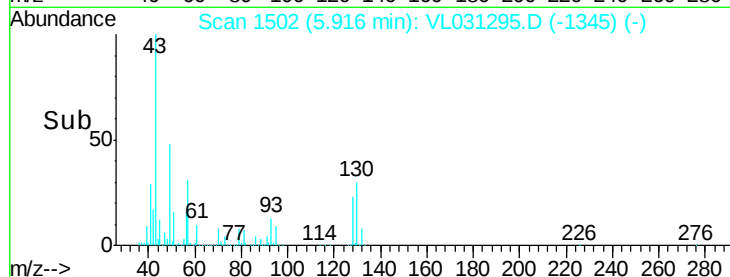
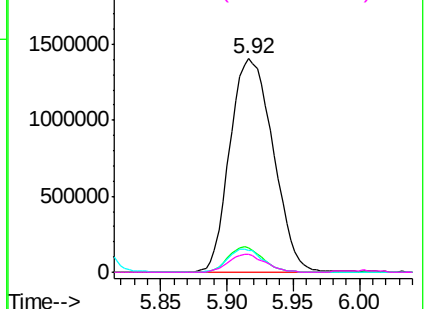


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 9.00 ppbv

RT: 5.93 min Scan# 1506

Delta R.T. 0.00 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

Tgt Ion: 57 Resp: 1495499

Ion Ratio Lower Upper

57 100

41 90.4 70.3 105.5

43 214.0 173.8 260.8

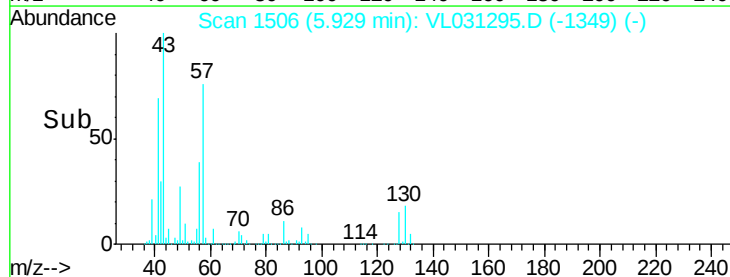
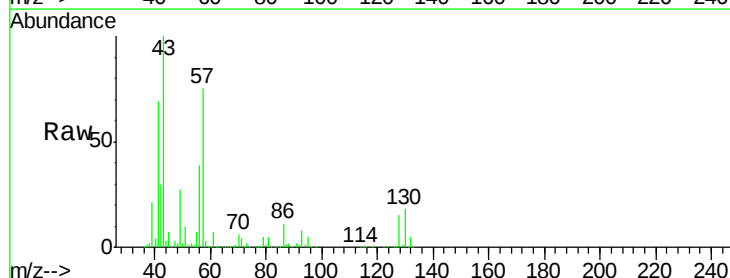
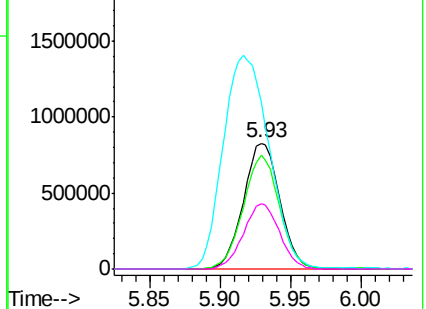
56 51.5 41.7 62.5

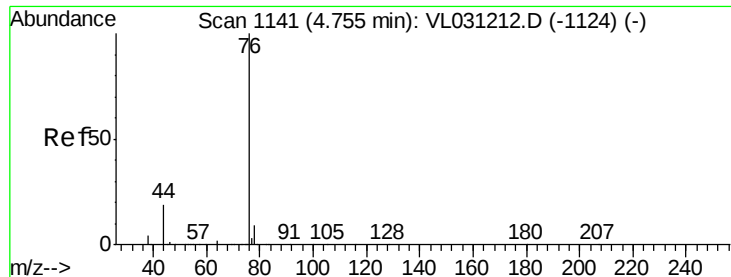
Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





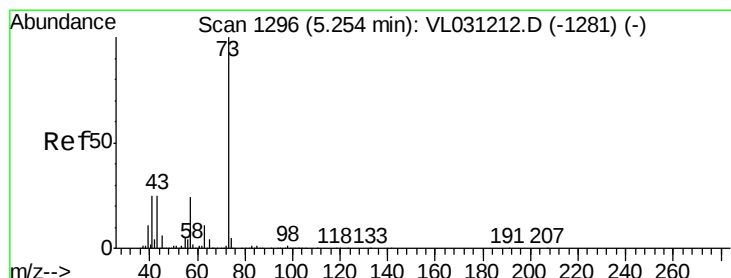
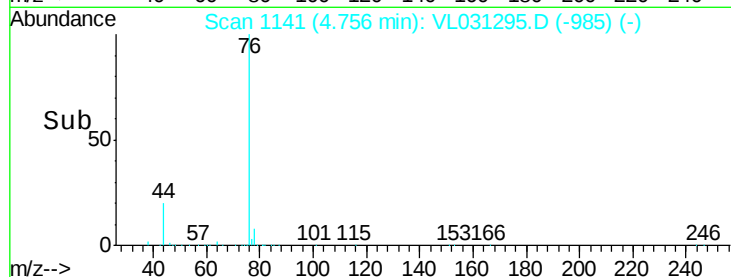
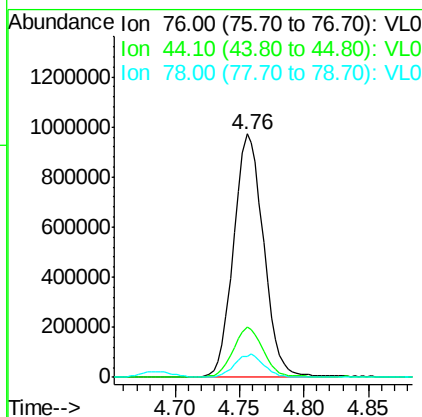
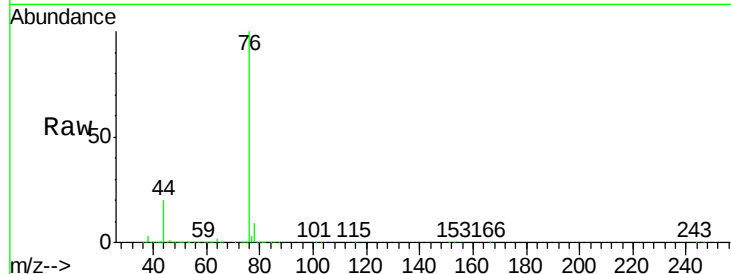
#27
Carbon Disulfide
Concen: 9.46 ppbv
RT: 4.76 min Scan# 1141
Delta R.T. 0.00 min
Lab File: VL031295.D
Acq: 21 Dec 2017 7:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 76 Resp: 1573642
Ion Ratio Lower Upper
76 100
44 20.1 16.0 24.0
78 9.3 7.5 11.3

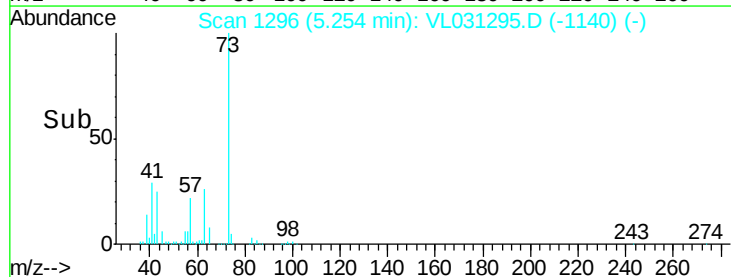
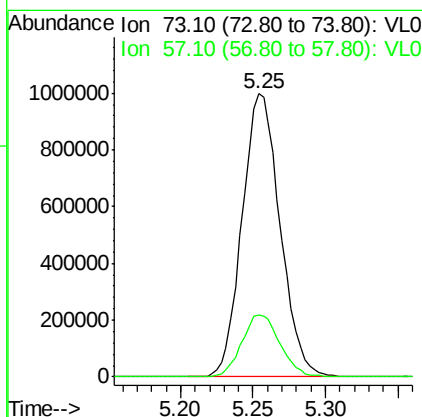
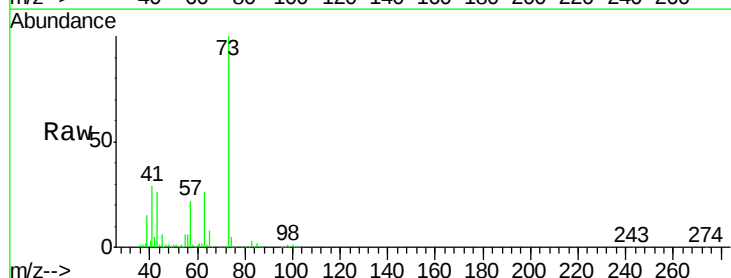
Manual Integrations
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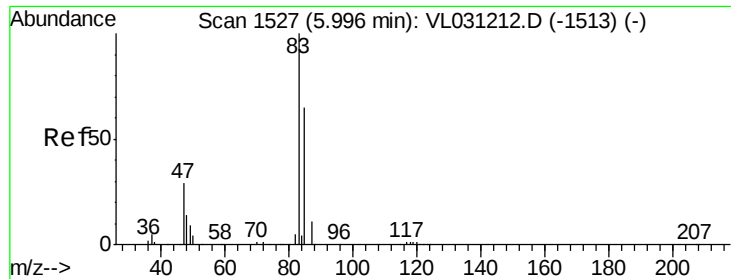
MMDadoda
12/22/2017 4:55:14 PM



#28
Methyl tert-Butyl Ether
Concen: 8.36 ppbv
RT: 5.25 min Scan# 1296
Delta R.T. 0.00 min
Lab File: VL031295.D
Acq: 21 Dec 2017 7:48

Tgt Ion: 73 Resp: 1815688
Ion Ratio Lower Upper
73 100
57 22.4 18.5 27.7





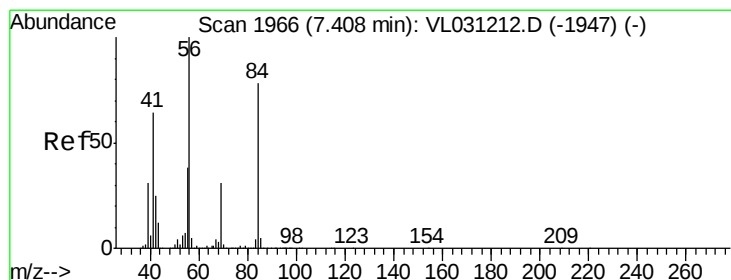
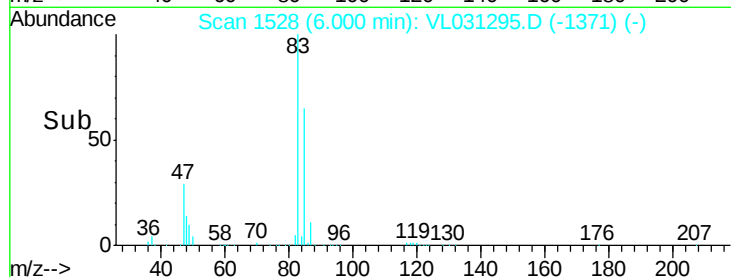
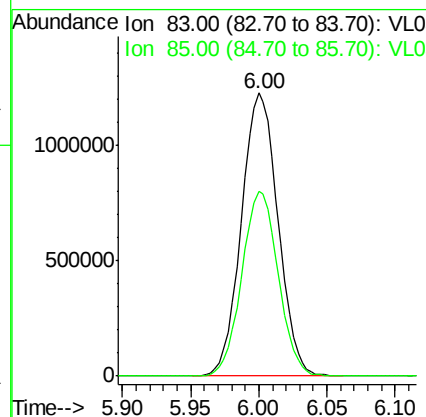
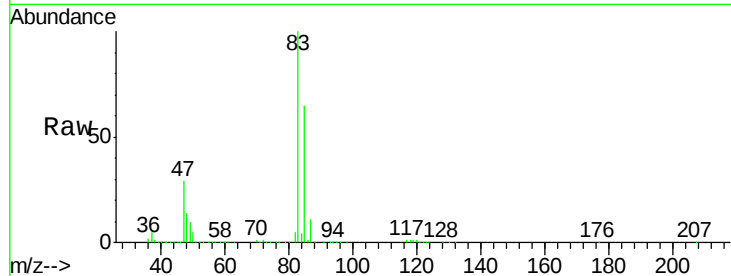
#29
Chloroform
Concen: 10.17 ppbv
RT: 6.00 min Scan# 1528
Delta R.T. 0.00 min
Lab File: VL031295.D
Acq: 21 Dec 2017 7:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 2280471
Ion Ratio Lower Upper
83 100
85 65.1 51.8 77.6

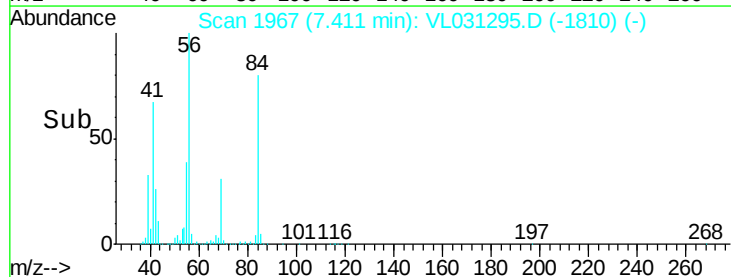
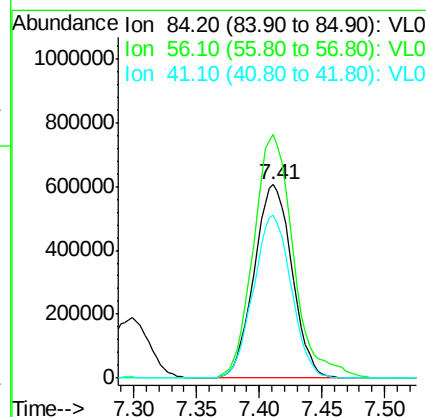
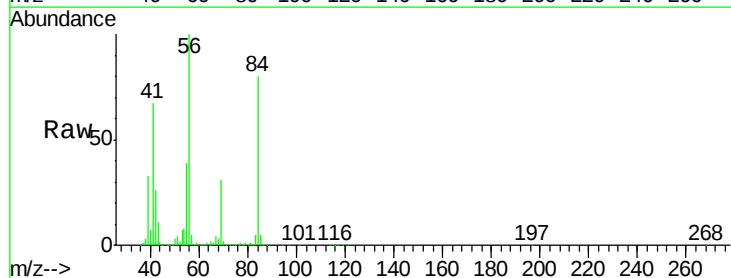
Manual Integrations
APPROVED

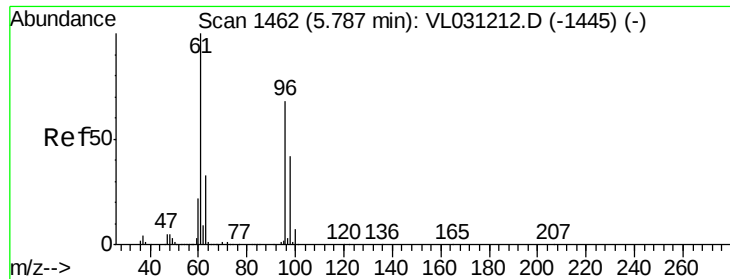
MMDadoda
12/22/2017 4:55:14 PM



#30
Cyclohexane
Concen: 8.73 ppbv
RT: 7.41 min Scan# 1967
Delta R.T. 0.00 min
Lab File: VL031295.D
Acq: 21 Dec 2017 7:48

Tgt Ion: 84 Resp: 1276684
Ion Ratio Lower Upper
84 100
56 132.8 108.0 162.0
41 83.8 66.2 99.4





#31

cis-1,2-Dichloroethene

Concen: 9.35 ppbv

RT: 5.79 min Scan# 1463

Delta R.T. 0.00 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

Instrument :

MSVOA_L

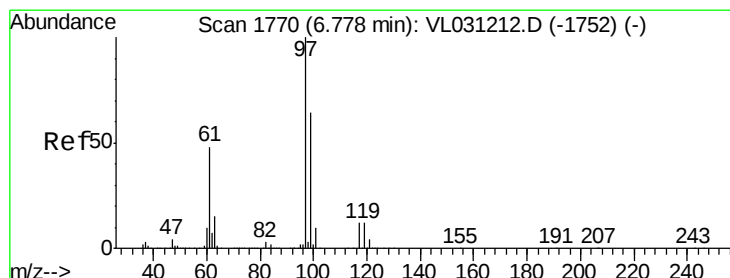
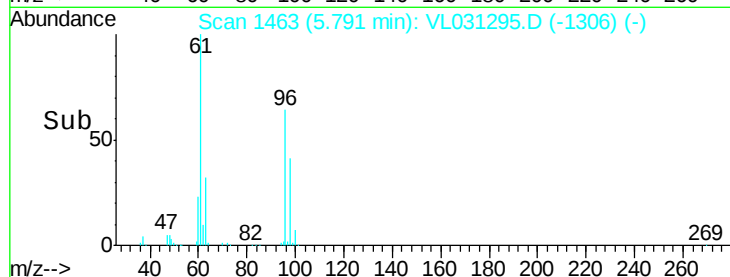
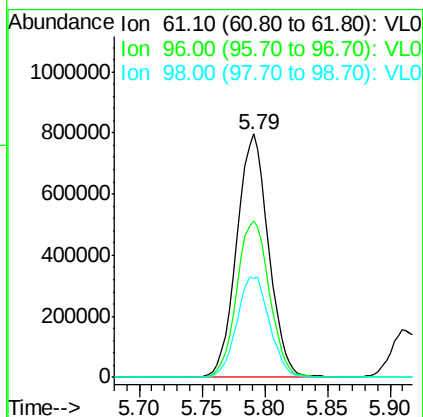
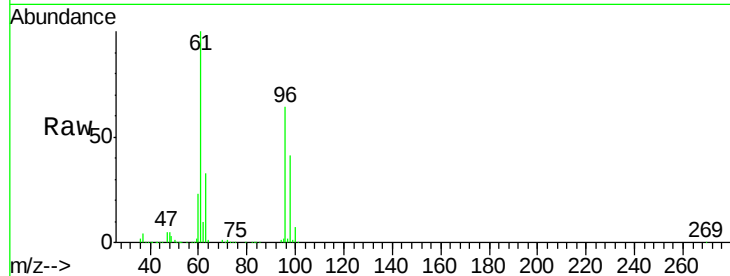
ClientSampleId :

VSTDCCC010EC

Tot Ion:	61	Resp:	1409164
Ion	Ratio	Lower	Upper
61	100		
96	64.3	54.4	81.6
98	40.7	33.6	50.4

Manual Integrations
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MMDadoda
12/22/2017 4:55:14 PM



#32

1,1,1-Trichloroethane

Concen: 9.25 ppbv

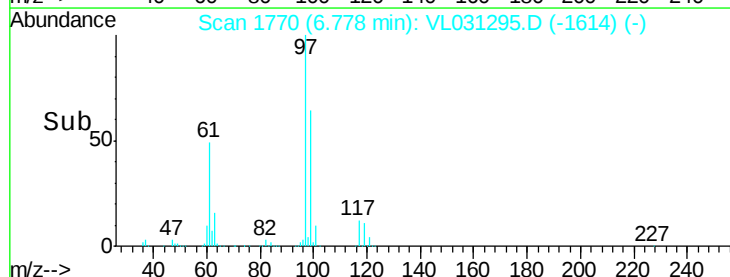
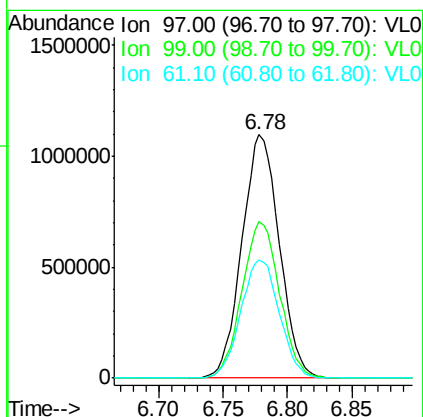
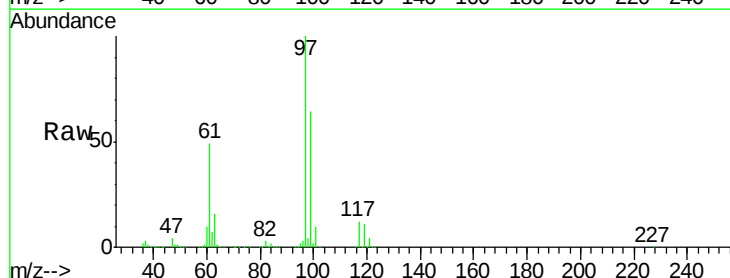
RT: 6.78 min Scan# 1770

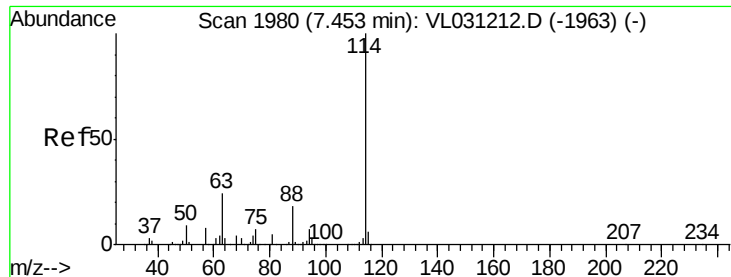
Delta R.T. 0.00 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

Tgt Ion:	97	Resp:	2217092
Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.4	77.0
61	50.0	38.4	57.6





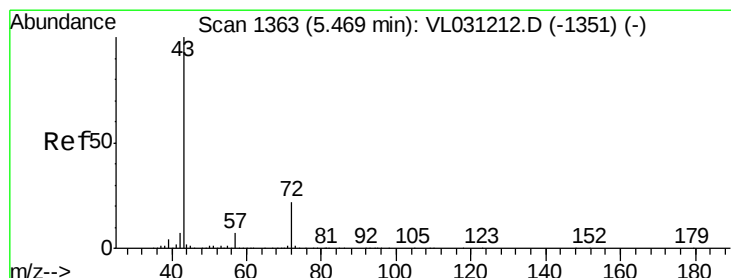
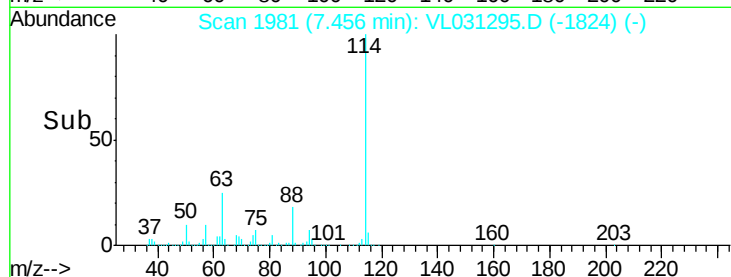
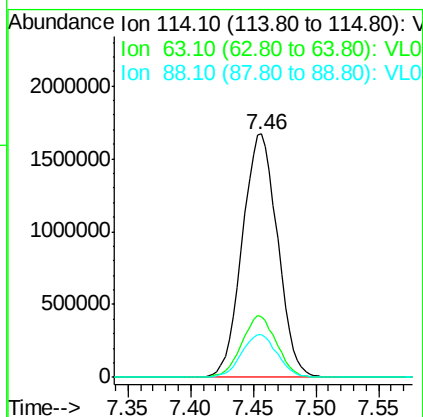
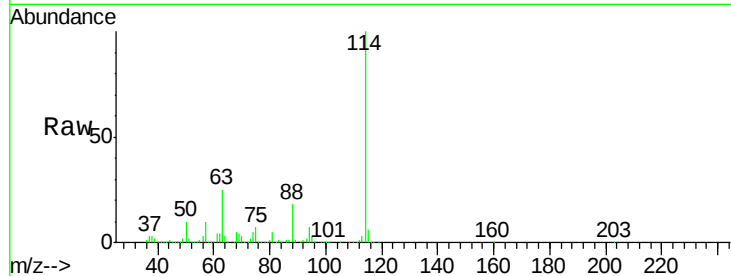
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.46 min Scan# 1981
 Delta R.T. 0.00 min
 Lab File: VL031295.D
 Acq: 21 Dec 2017 7:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.4	19.8	29.8
88	17.8	14.2	21.4

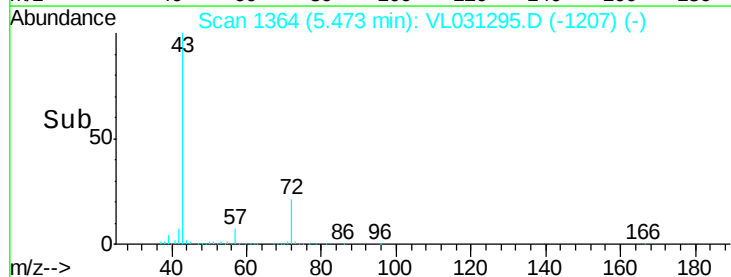
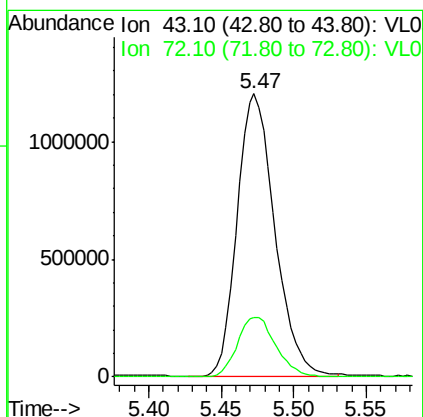
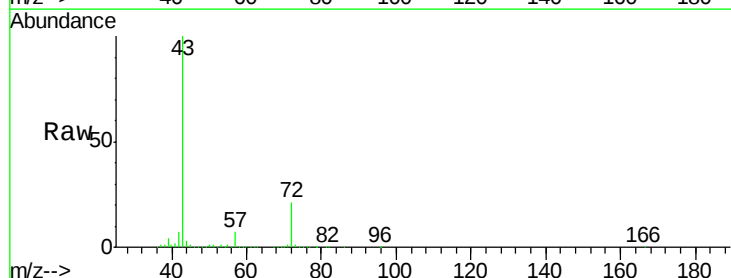
Manual Integrations
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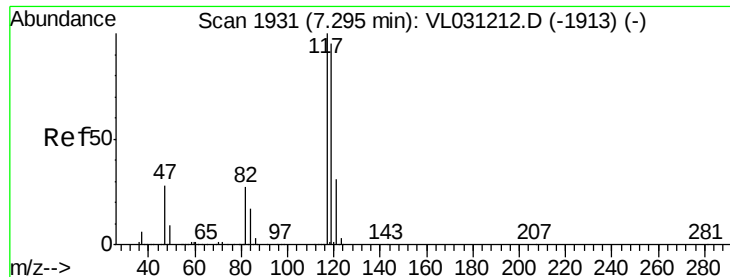
MM Dadoda
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#34
 2-Butanone
 Concen: 9.39 ppbv
 RT: 5.47 min Scan# 1364
 Delta R.T. 0.00 min
 Lab File: VL031295.D
 Acq: 21 Dec 2017 7:48

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.6	18.1	27.1





#35

Carbon Tetrachloride

Concen: 9.84 ppbv

RT: 7.30 min Scan# 1931

Delta R.T. 0.00 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 117 Resp: 2304172

Ion Ratio Lower Upper

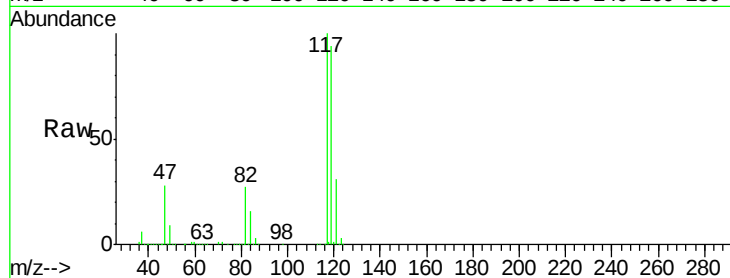
117 100

119 94.1 75.9 113.9

121 30.6 24.6 37.0

Manual Integrations
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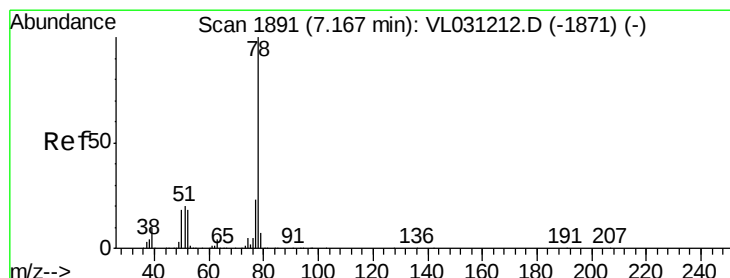
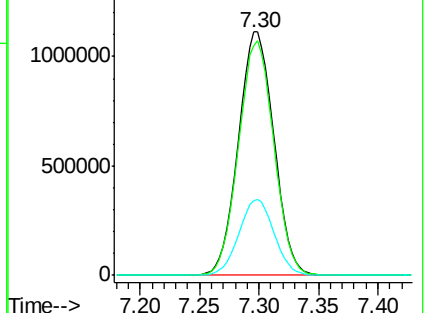
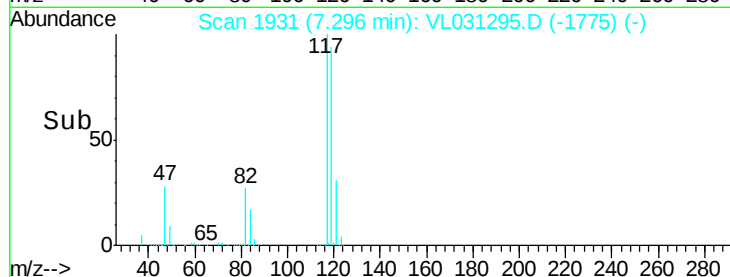
MMDadoda
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 8.93 ppbv

RT: 7.17 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

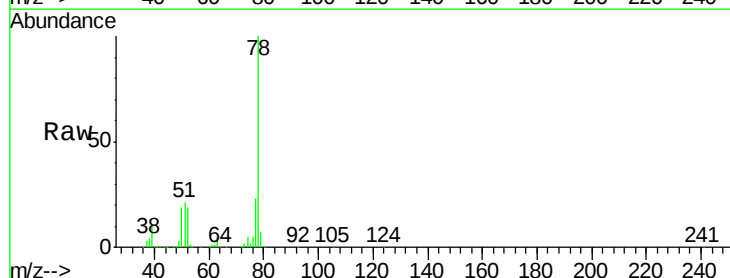
Tgt Ion: 78 Resp: 3094993

Ion Ratio Lower Upper

78 100

77 23.0 18.1 27.1

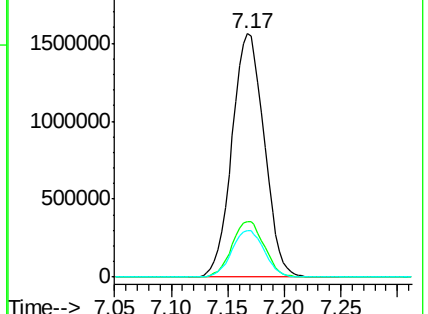
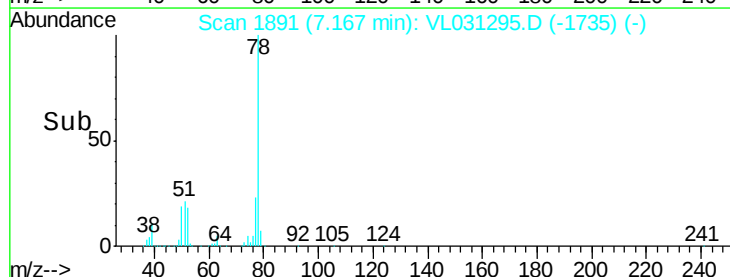
50 19.0 14.6 21.8

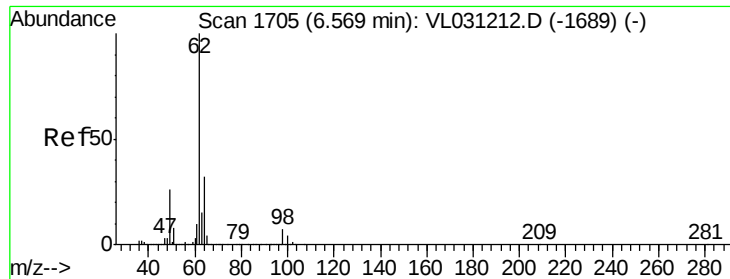


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





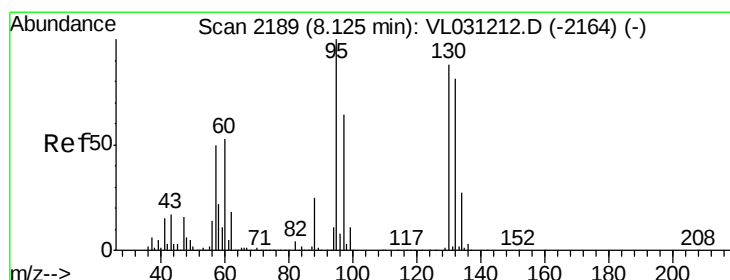
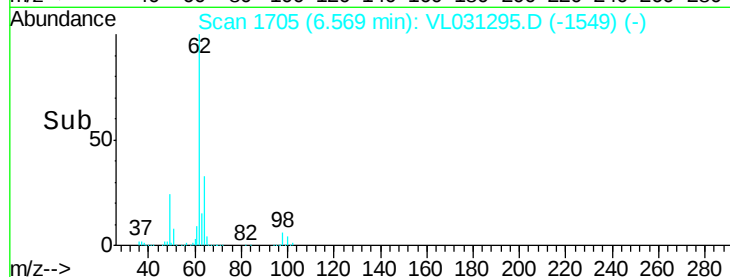
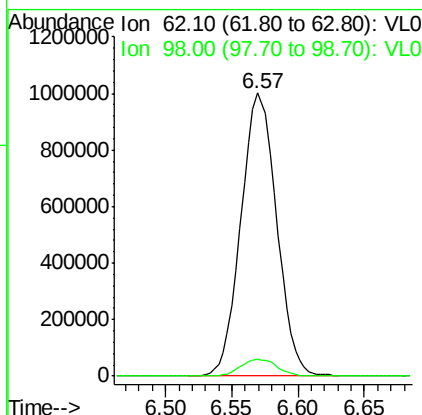
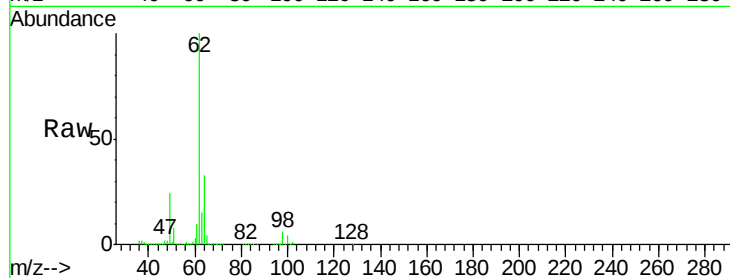
#37
 1,2-Dichloroethane
 Concen: 9.82 ppbv
 RT: 6.57 min Scan# 1705
 Delta R.T. 0.00 min
 Lab File: VL031295.D
 Acq: 21 Dec 2017 7:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 62 Resp: 1877307
 Ion Ratio Lower Upper
 62 100
 98 6.1 5.4 8.2

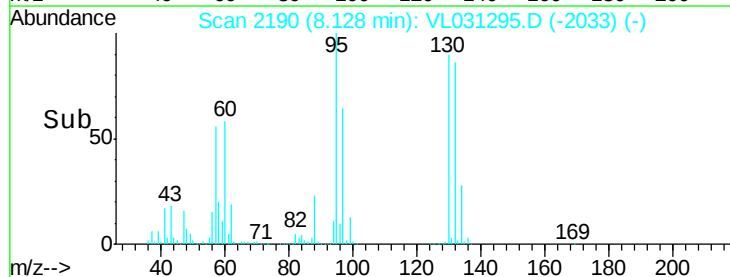
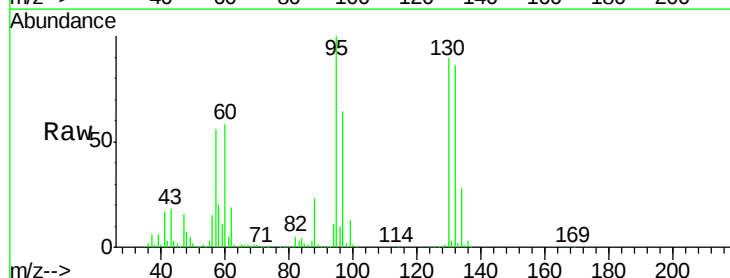
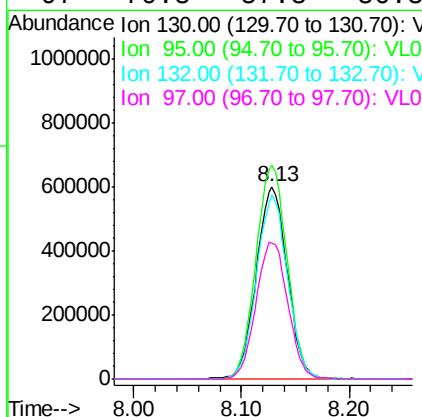
Manual Integrations
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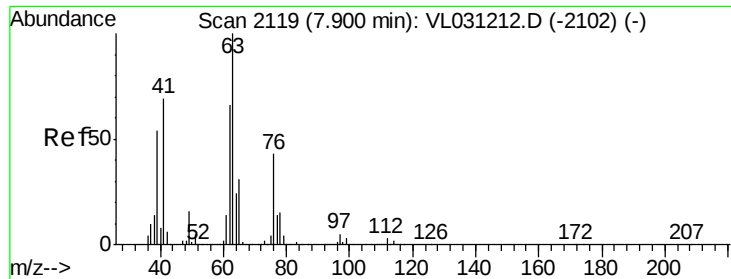
MMDadoda
 12/22/2017 4:55:14 PM



#38
 Trichloroethene
 Concen: 8.85 ppbv
 RT: 8.13 min Scan# 2190
 Delta R.T. 0.00 min
 Lab File: VL031295.D
 Acq: 21 Dec 2017 7:48

Tgt Ion: 130 Resp: 1196883
 Ion Ratio Lower Upper
 130 100
 95 111.2 90.6 135.8
 132 96.1 73.5 110.3
 97 70.8 57.8 86.8





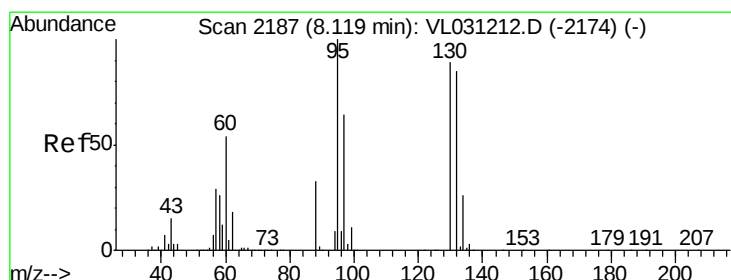
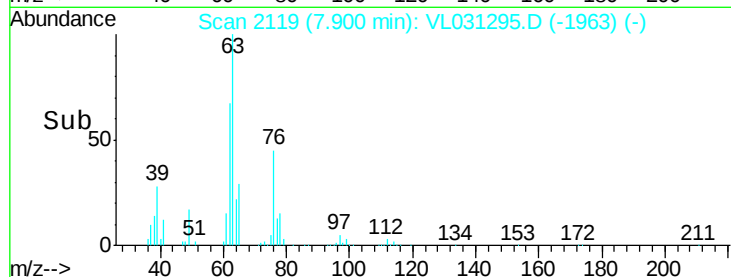
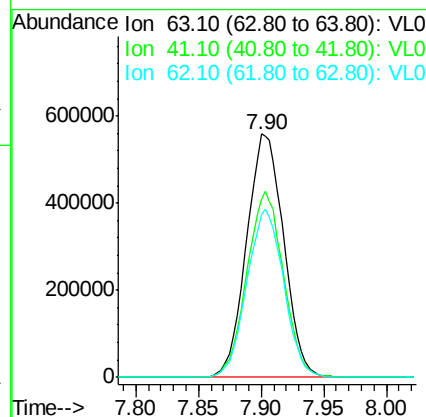
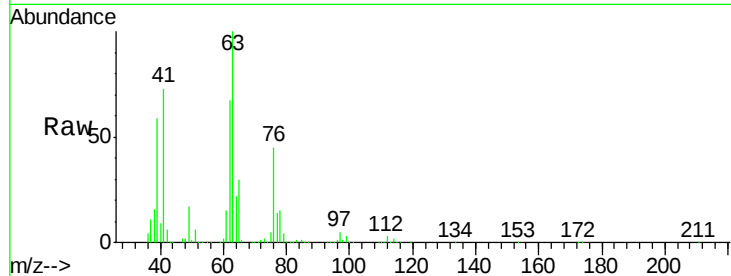
#39
 1,2-Dichloropropane
 Concen: 9.39 ppbv
 RT: 7.90 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VL031295.D
 Acq: 21 Dec 2017 7:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 63 Resp: 1150571
 Ion Ratio Lower Upper
 63 100
 41 73.3 55.2 82.8
 62 66.7 53.0 79.4

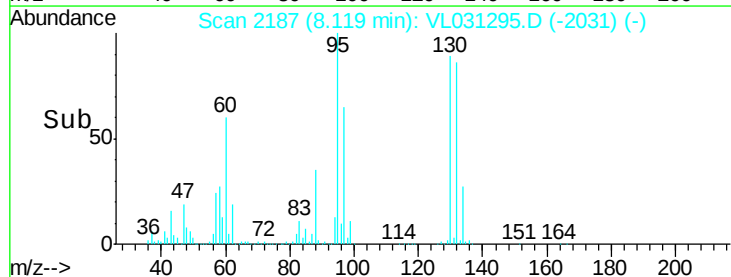
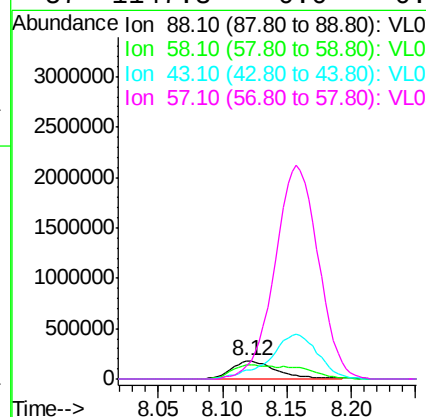
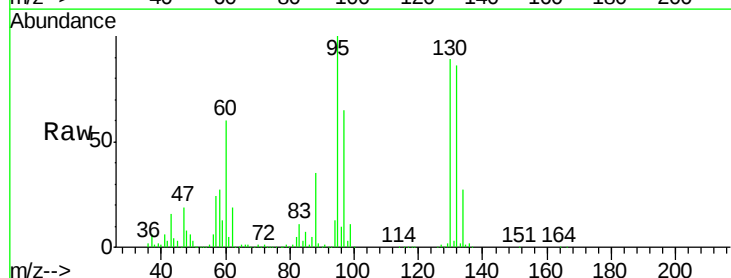
Manual Integrations
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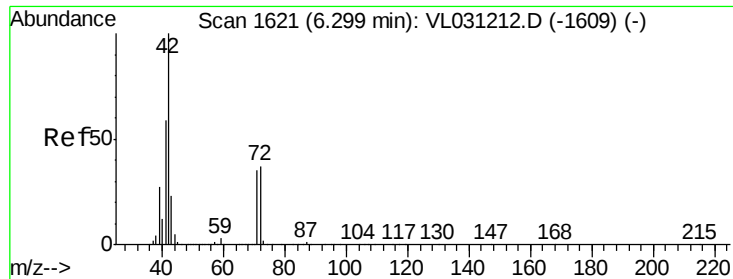
MM Dadoda
 12/22/2017 4:55:14 PM



#40
 1,4-Dioxane
 Concen: 9.86 ppbv
 RT: 8.12 min Scan# 2187
 Delta R.T. 0.00 min
 Lab File: VL031295.D
 Acq: 21 Dec 2017 7:48

Tgt Ion: 88 Resp: 436212
 Ion Ratio Lower Upper
 88 100
 58 126.6 104.3 156.5
 43 262.6 0.0 0.0#
 57 1147.3 0.0 0.0#





#41

Tetrahydrofuran

Concen: 9.31 ppbv

RT: 6.30 min Scan# 1622

Delta R.T. 0.00 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

Instrument :

MSVOA_L

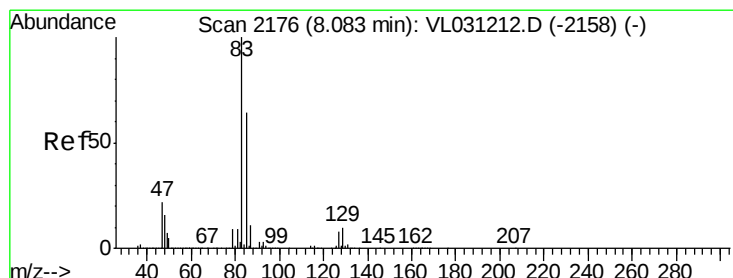
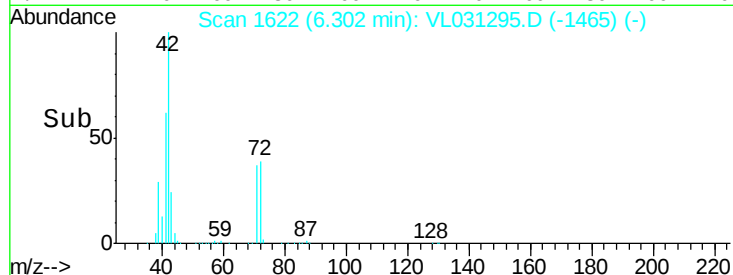
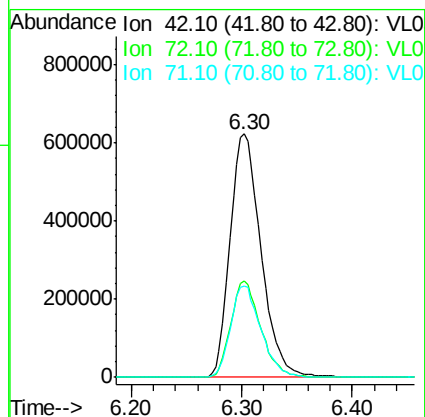
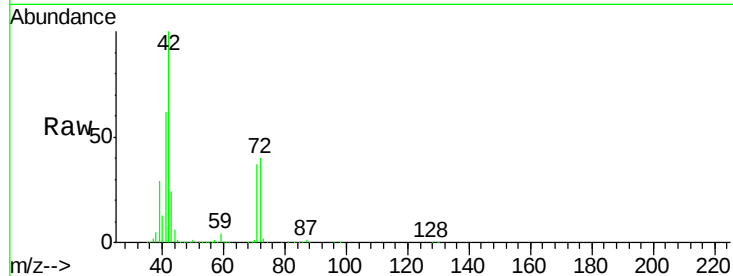
ClientSampleId :

VSTDCCC010EC

Tot Ion:	42	Resp:	1209094
Ion	Ratio	Lower	Upper
42	100		
72	38.4	30.2	45.4
71	37.1	29.0	43.6

Manual Integrations
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12/22/2017 4:55:14 PM



#42

Bromodichloromethane

Concen: 10.70 ppbv

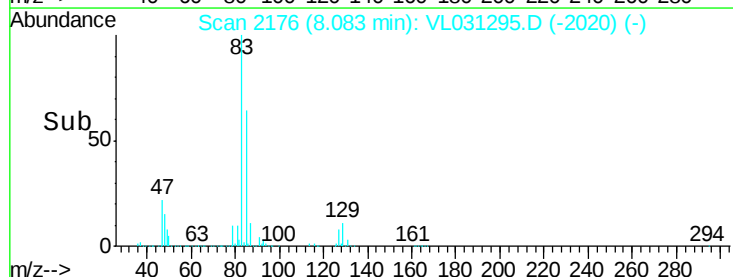
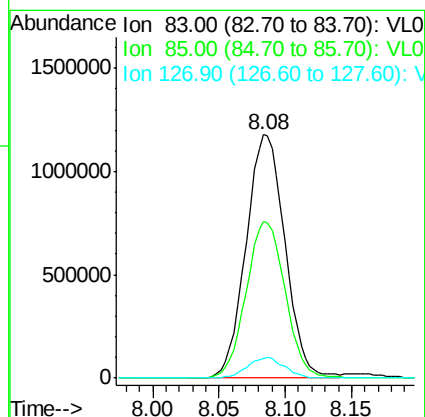
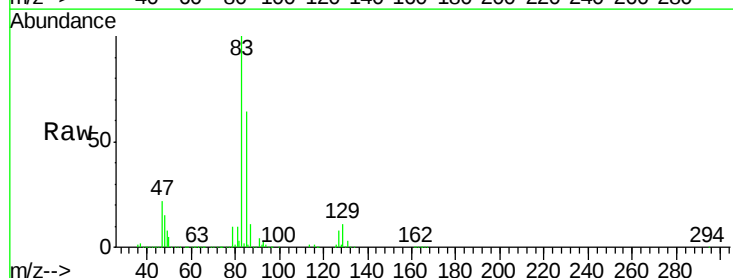
RT: 8.08 min Scan# 2176

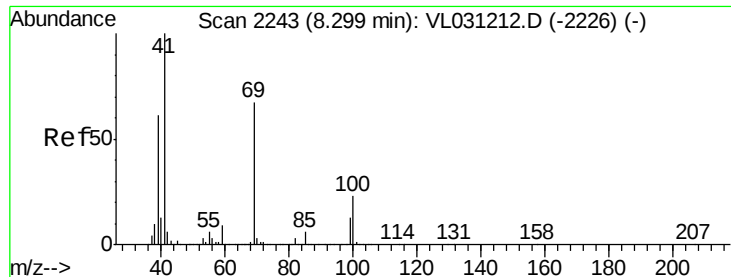
Delta R.T. 0.00 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

Tgt Ion:	83	Resp:	2411330
Ion	Ratio	Lower	Upper
83	100		
85	64.4	51.5	77.3
127	8.2	6.5	9.7





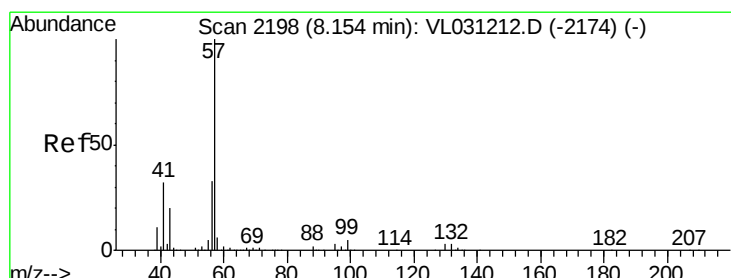
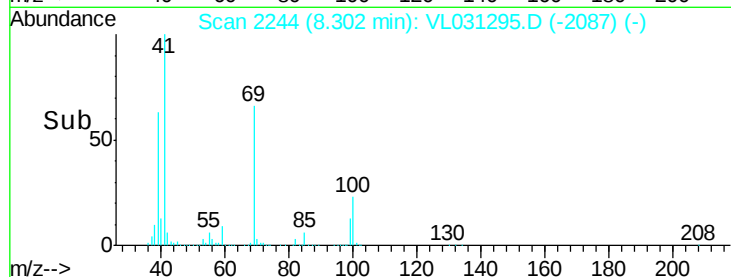
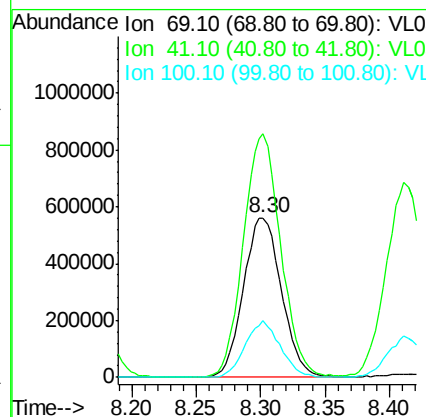
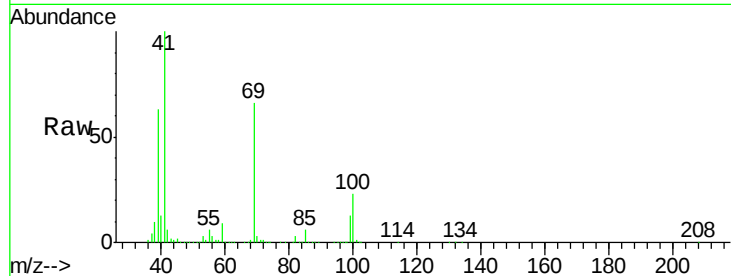
#43
Methvl Methacrylate
Concen: 9.95 ppbv
RT: 8.30 min Scan# 2244
Delta R.T. 0.00 min
Lab File: VL031295.D
Acq: 21 Dec 2017 7:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 69 Resp: 1155351
Ion Ratio Lower Upper
69 100
41 149.4 121.1 181.7
100 33.0 27.4 41.2

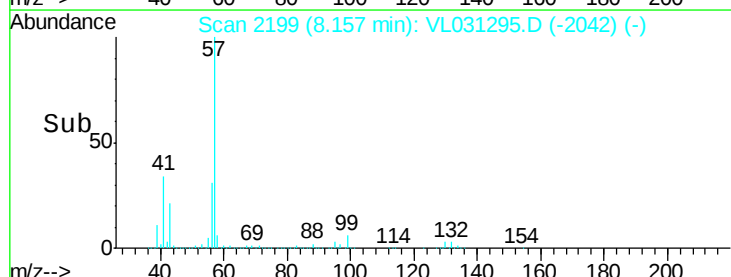
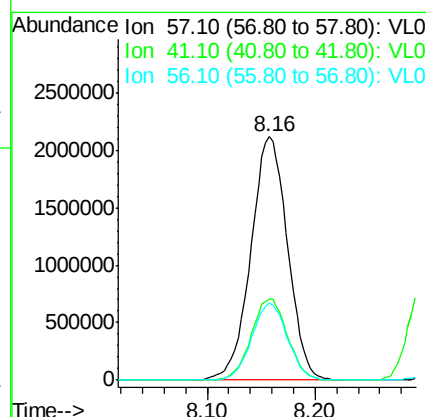
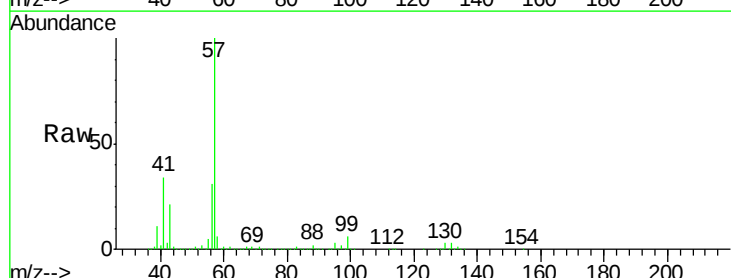
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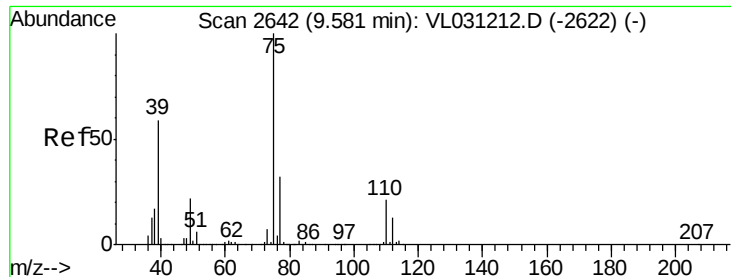
MMDadoda
12/22/2017 4:55:14 PM



#44
2,2,4-Trimethylpentane
Concen: 9.54 ppbv
RT: 8.16 min Scan# 2199
Delta R.T. 0.00 min
Lab File: VL031295.D
Acq: 21 Dec 2017 7:48

Tgt Ion: 57 Resp: 4993874
Ion Ratio Lower Upper
57 100
41 33.1 25.5 38.3
56 30.9 25.0 37.6





#45

t-1,3-Dichloropropene

Concen: 9.77 ppbv

RT: 9.58 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 75 Resp: 1550915

Ion Ratio Lower Upper

75 100

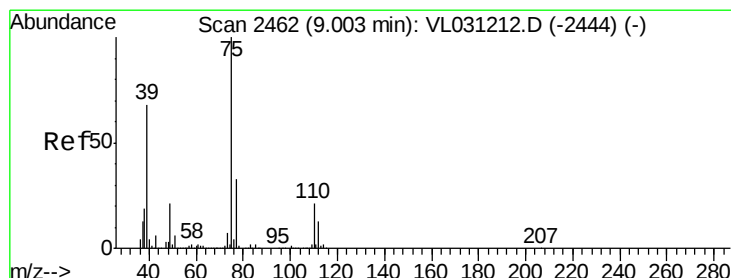
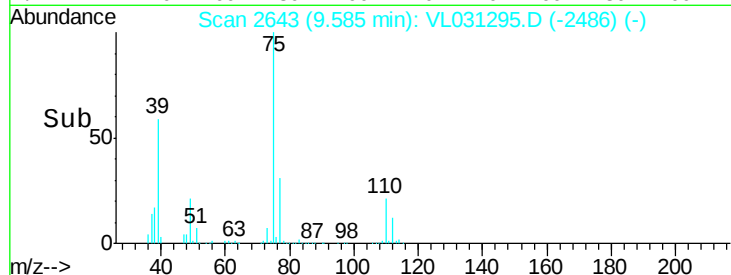
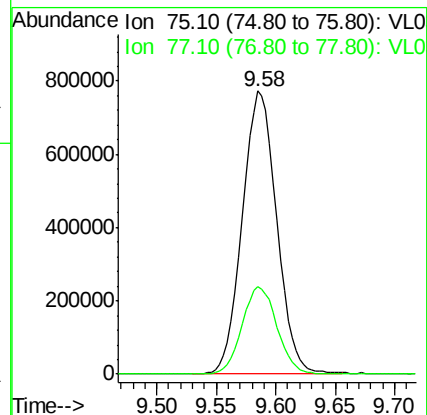
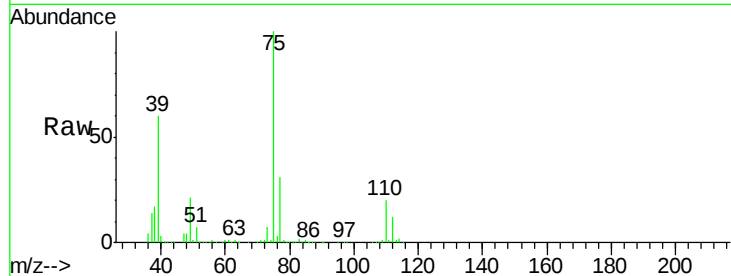
77 31.0 25.4 38.2

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#46

cis-1,3-Dichloropropene

Concen: 9.46 ppbv

RT: 9.01 min Scan# 2463

Delta R.T. 0.00 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

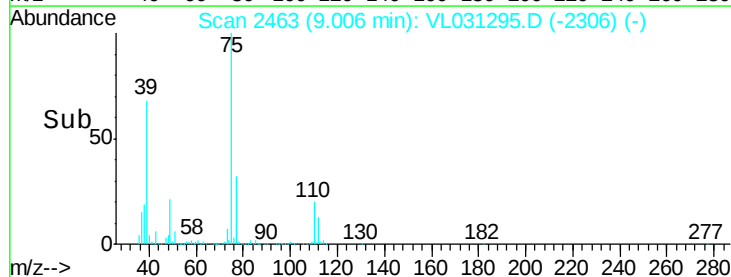
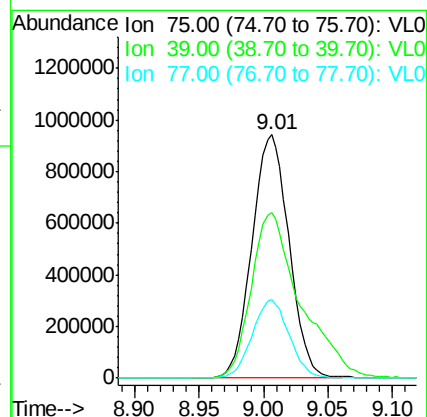
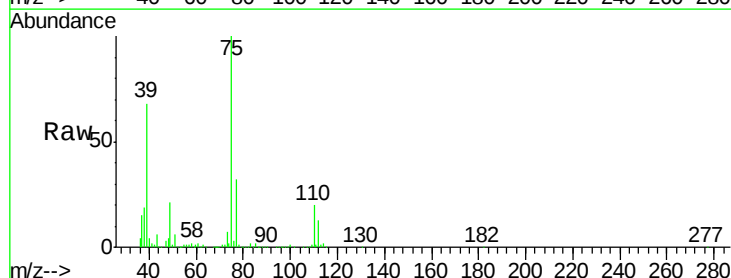
Tgt Ion: 75 Resp: 1889264

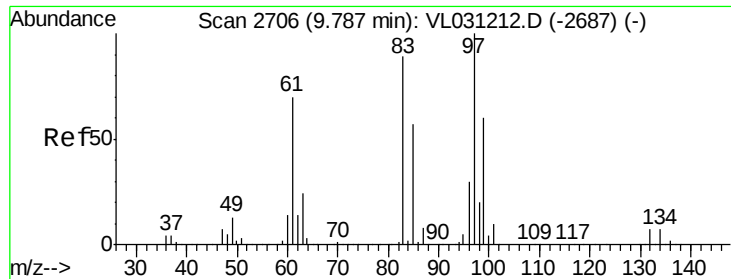
Ion Ratio Lower Upper

75 100

39 67.7 54.2 81.4

77 32.1 26.2 39.4





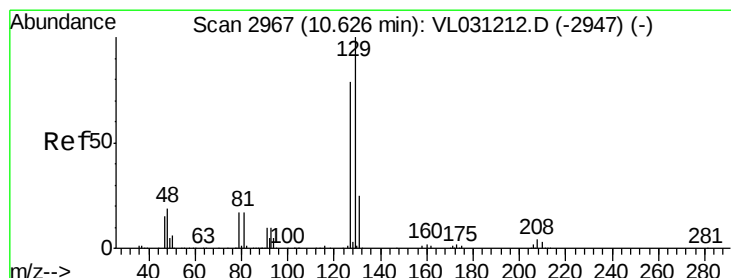
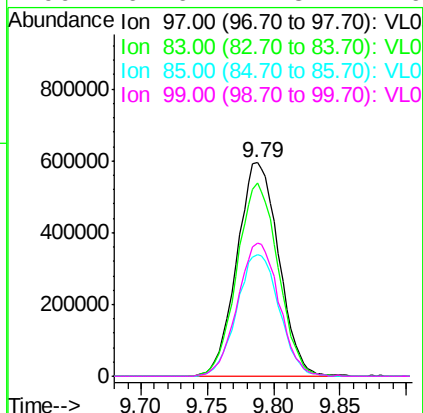
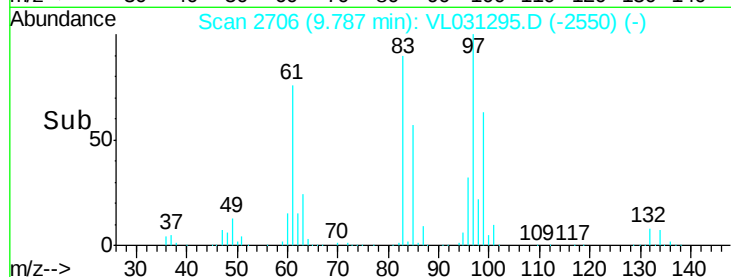
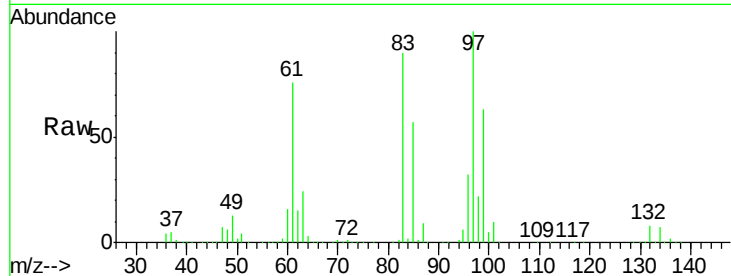
#47
 1,1,2-Trichloroethane
 Concen: 10.26 ppbv
 RT: 9.79 min Scan# 2706
 Delta R.T. 0.00 min
 Lab File: VL031295.D
 Acq: 21 Dec 2017 7:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	90.2	71.0	106.4	
85	56.9	45.3	67.9	
99	62.6	47.8	71.6	

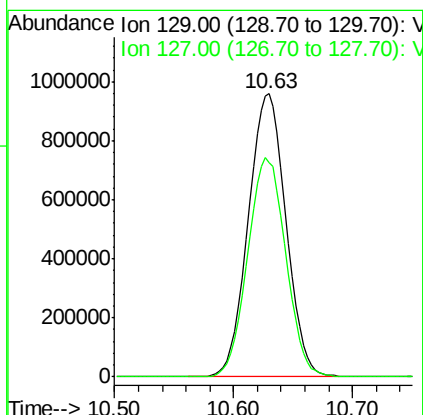
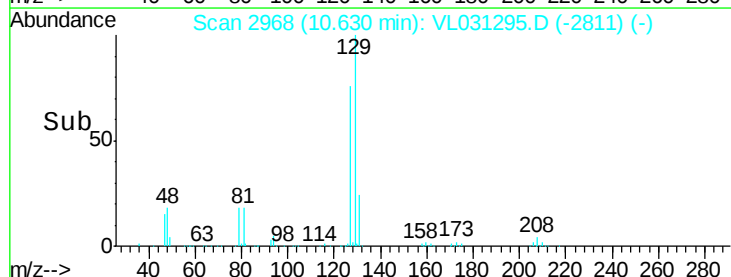
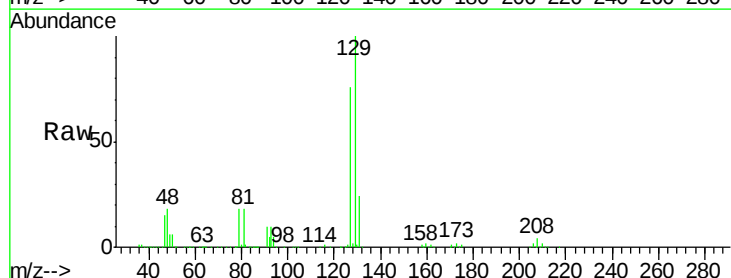
Manual Integrations
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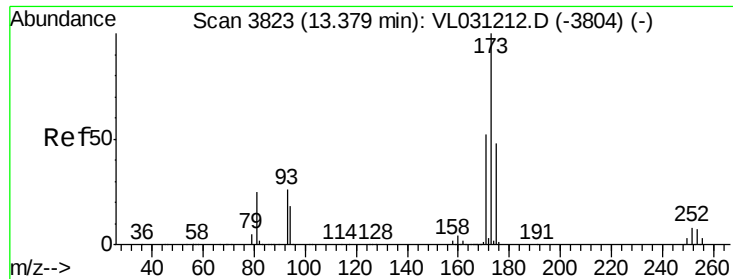
MMDadoda
 12/22/2017 4:55:14 PM



#48
 Dibromochloromethane
 Concen: 10.59 ppbv
 RT: 10.63 min Scan# 2968
 Delta R.T. 0.00 min
 Lab File: VL031295.D
 Acq: 21 Dec 2017 7:48

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.4	39.1	117.5	





#49

Bromoform

Concen: 10.48 ppbv

RT: 13.38 min Scan# 3824

Delta R.T. 0.00 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:173 Resp: 1535421

Ion Ratio Lower Upper

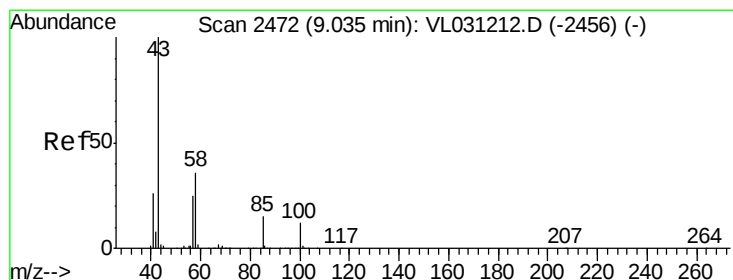
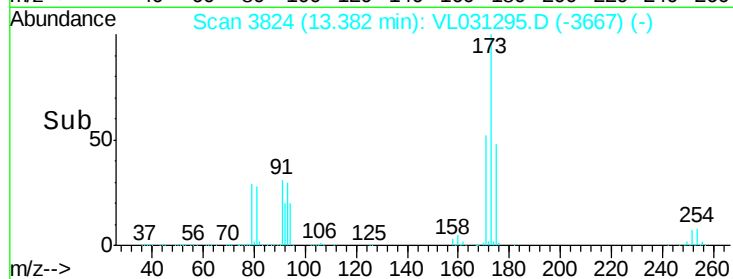
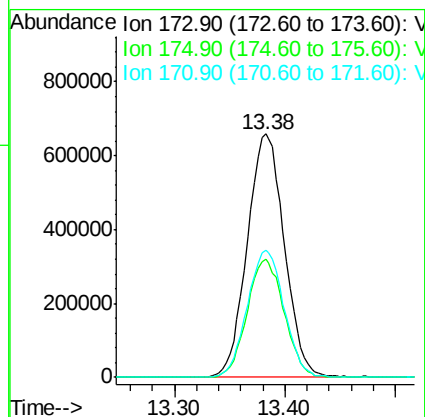
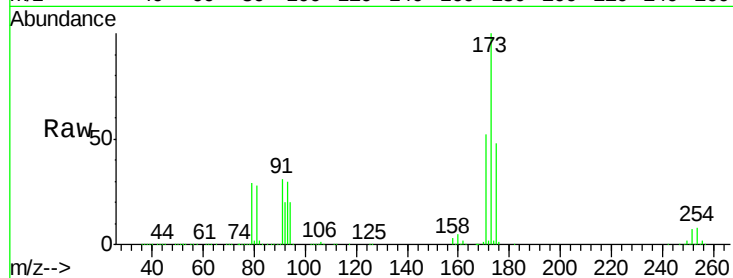
173 100

175 48.7 39.0 58.4

171 52.3 41.8 62.8

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#50

4-Methyl-2-Pentanone

Concen: 9.68 ppbv

RT: 9.04 min Scan# 2473

Delta R.T. 0.00 min

Lab File: VL031295.D

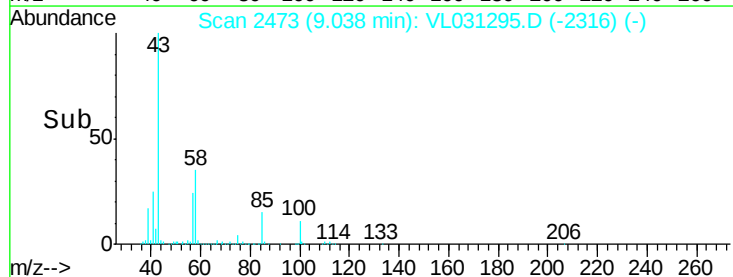
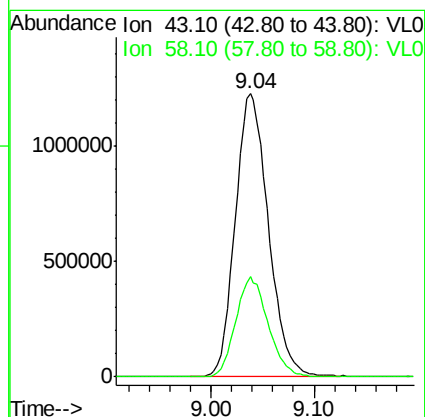
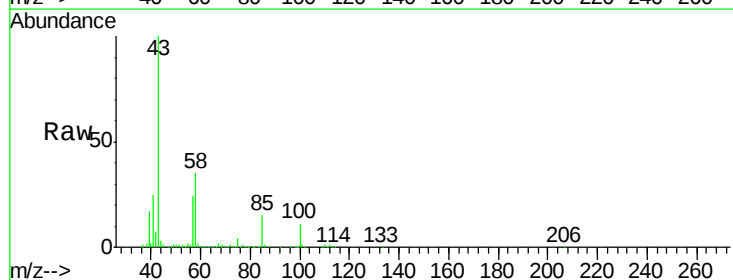
Acq: 21 Dec 2017 7:48

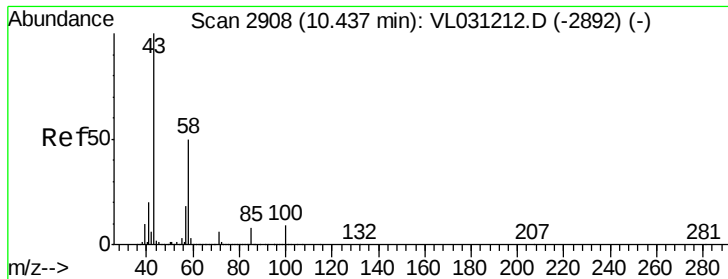
Tgt Ion: 43 Resp: 2736299

Ion Ratio Lower Upper

43 100

58 34.8 28.8 43.2





#51

2-Hexanone

Concen: 9.53 ppbv

RT: 10.44 min Scan# 2910

Delta R.T. 0.01 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2570055

Ion Ratio Lower Upper

43 100

58 47.8 39.8 59.6

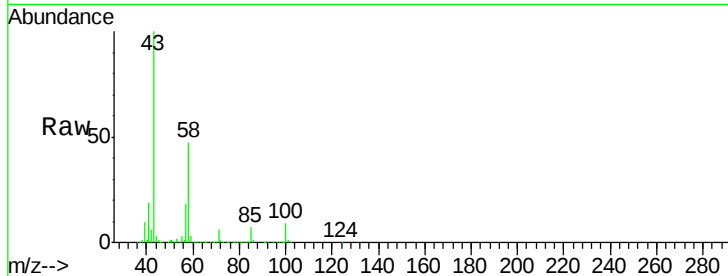
98 0.1 0.0 0.0#

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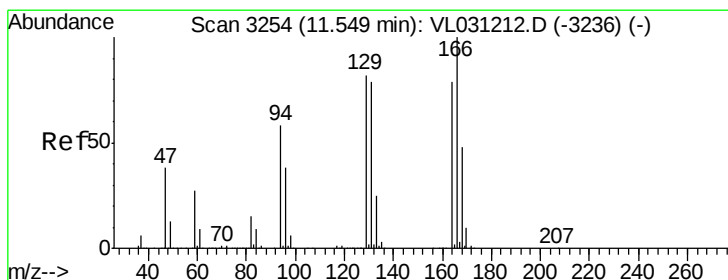
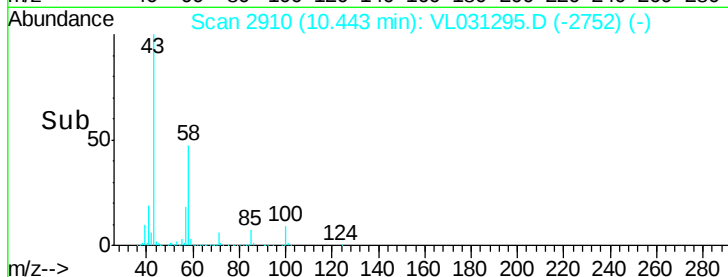
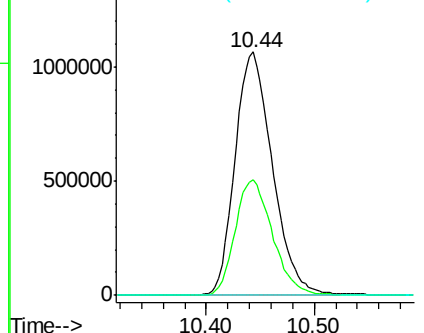
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 8.89 ppbv

RT: 11.55 min Scan# 3254

Delta R.T. 0.00 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

Tgt Ion: 164 Resp: 1136271

Ion Ratio Lower Upper

164 100

166 128.5 100.6 151.0

129 109.8 82.9 124.3

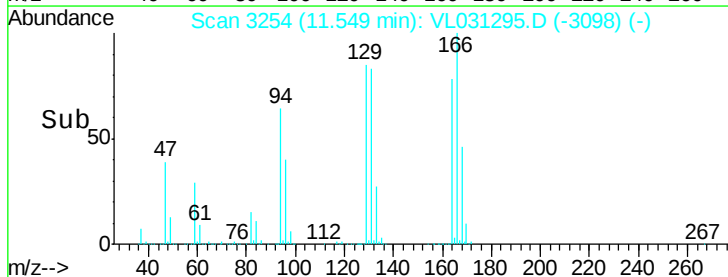
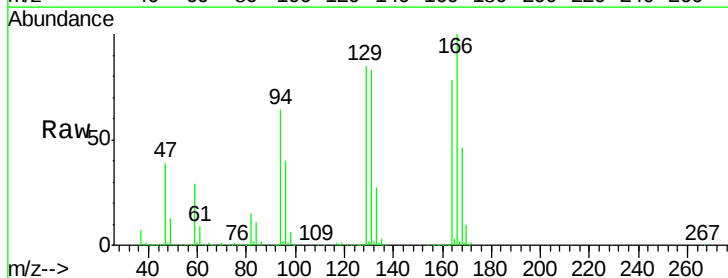
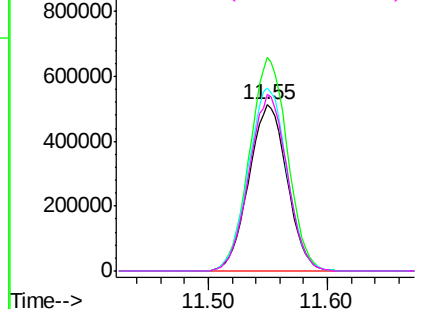
131 106.2 79.2 118.8

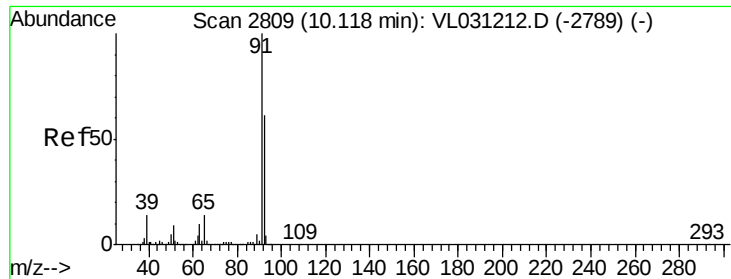
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 9.79 ppbv

RT: 10.12 min Scan# 2809

Delta R.T. 0.00 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 3682648

Ion Ratio Lower Upper

91 100

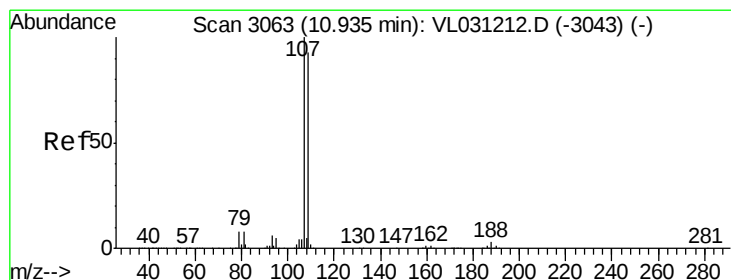
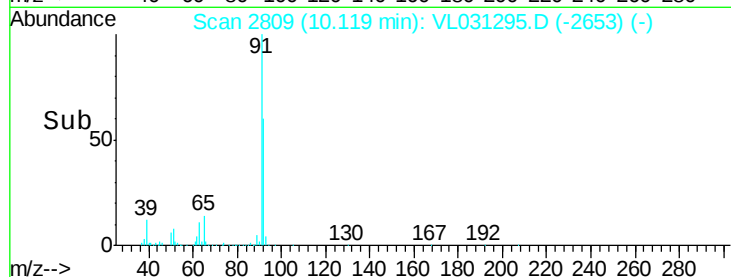
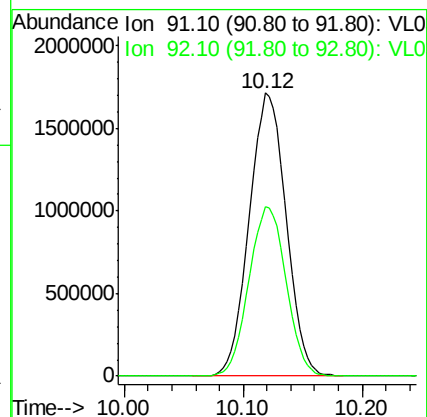
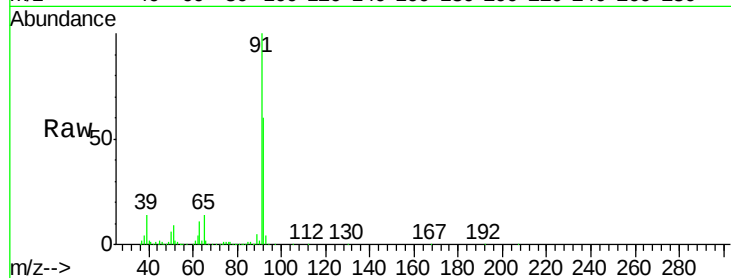
92 60.4 49.1 73.7

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#54

1,2-Dibromoethane

Concen: 10.29 ppbv

RT: 10.94 min Scan# 3064

Delta R.T. 0.00 min

Lab File: VL031295.D

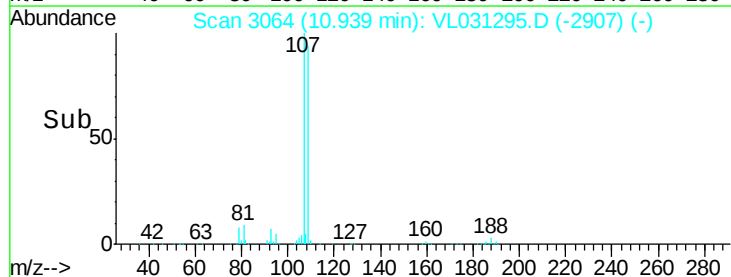
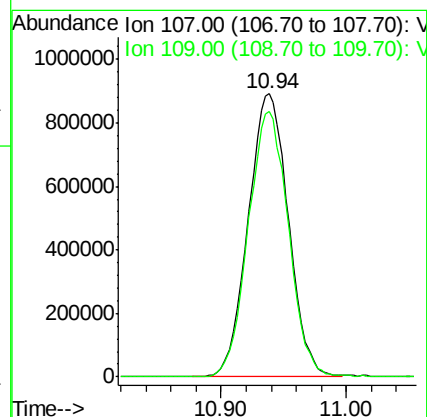
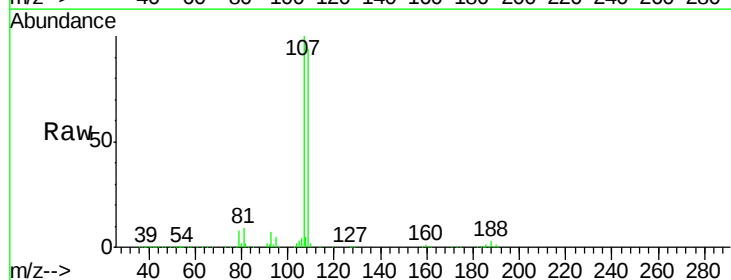
Acq: 21 Dec 2017 7:48

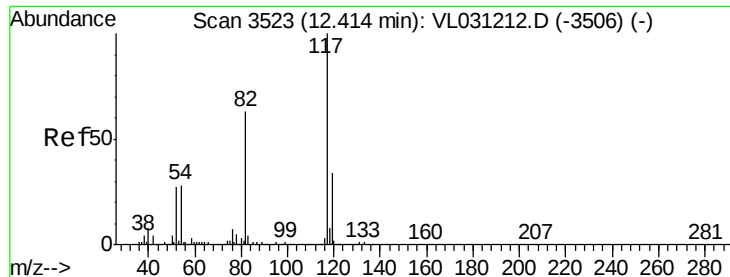
Tgt Ion: 107 Resp: 1983022

Ion Ratio Lower Upper

107 100

109 93.6 74.7 112.1





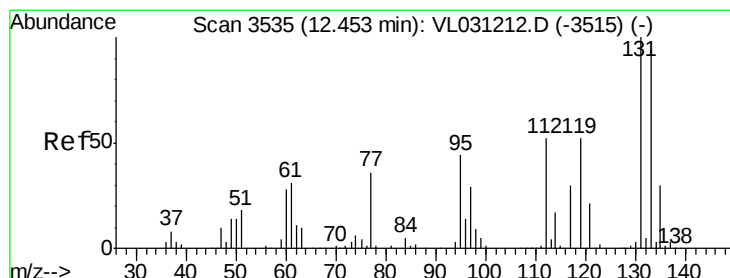
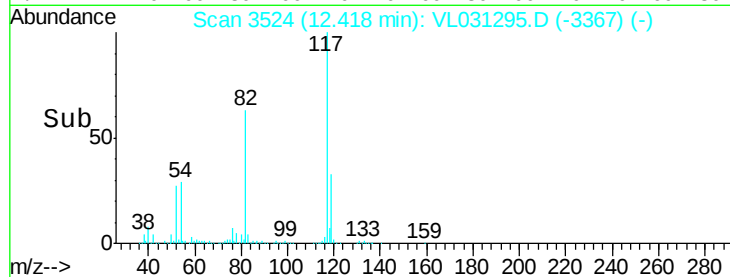
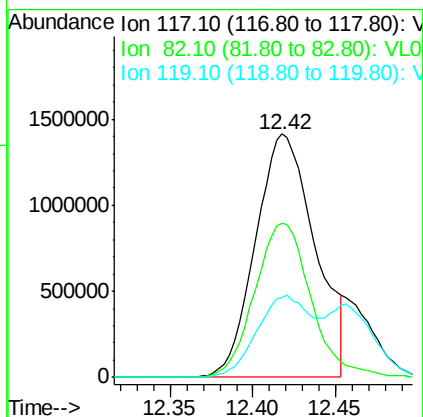
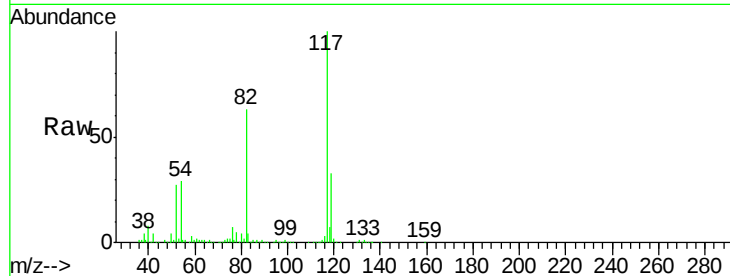
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.42 min Scan# 3524
Delta R.T. 0.00 min
Lab File: VL031295.D
Acq: 21 Dec 2017 7:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:117 Resp: 3531393
Ion Ratio Lower Upper
117 100
82 60.0 48.1 72.1
119 31.0 23.1 34.7

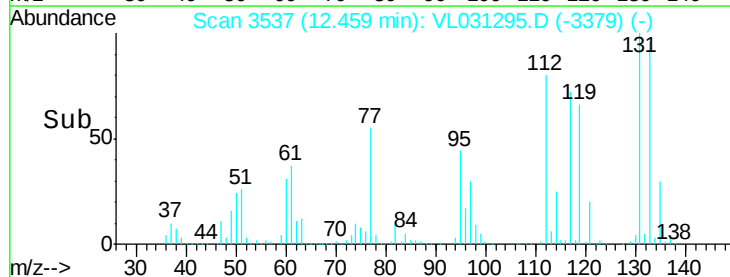
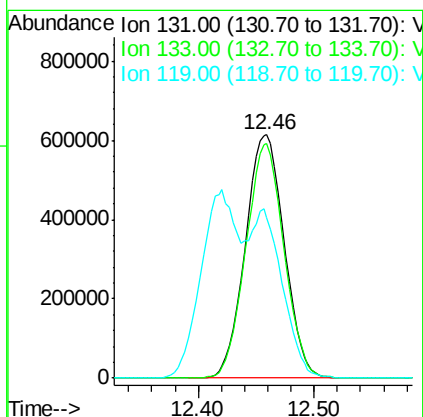
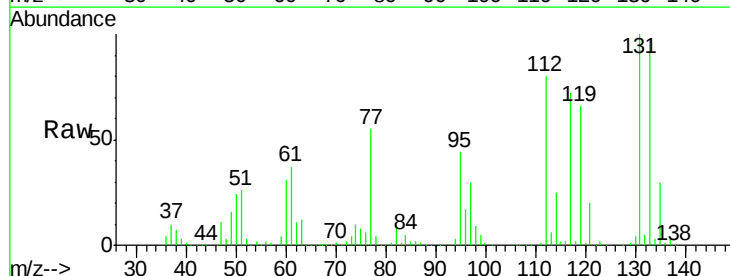
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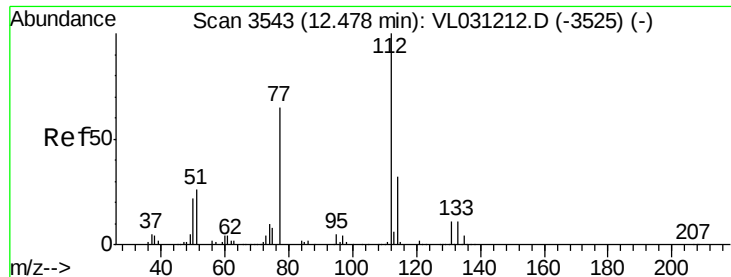
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.10 ppbv
RT: 12.46 min Scan# 3537
Delta R.T. 0.01 min
Lab File: VL031295.D
Acq: 21 Dec 2017 7:48

Tgt Ion:131 Resp: 1433964
Ion Ratio Lower Upper
131 100
133 94.9 76.1 114.1
119 62.7 108.5 162.7#





#57

Chlorobenzene

Concen: 8.50 ppbv

RT: 12.48 min Scan# 3543

Delta R.T. 0.00 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 112 Resp: 2798277

Ion Ratio Lower Upper

112 100

77 66.7 52.9 79.3

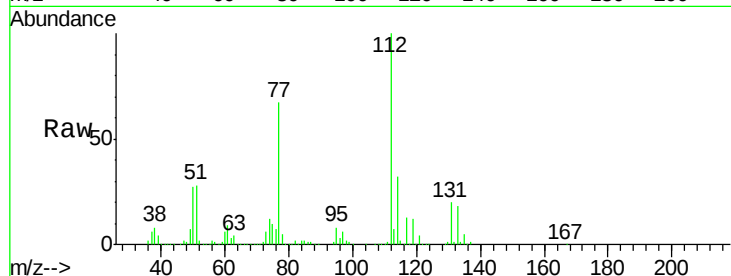
114 31.9 29.1 35.5

Manual Integrations

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MMMadoda

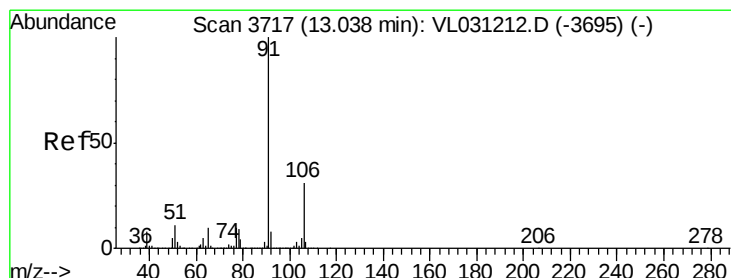
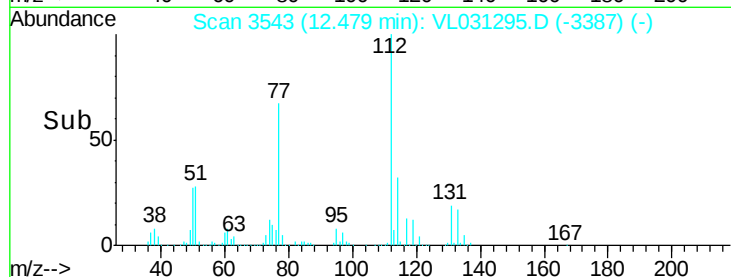
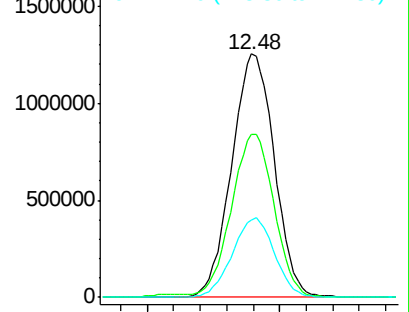
12/22/2017 4:55:14 PM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 8.62 ppbv

RT: 13.04 min Scan# 3718

Delta R.T. 0.00 min

Lab File: VL031295.D

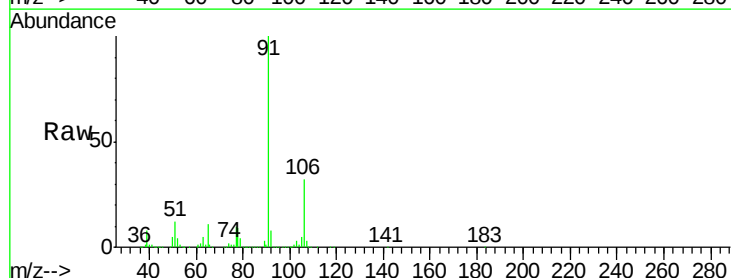
Acq: 21 Dec 2017 7:48

Tgt Ion: 91 Resp: 5028459

Ion Ratio Lower Upper

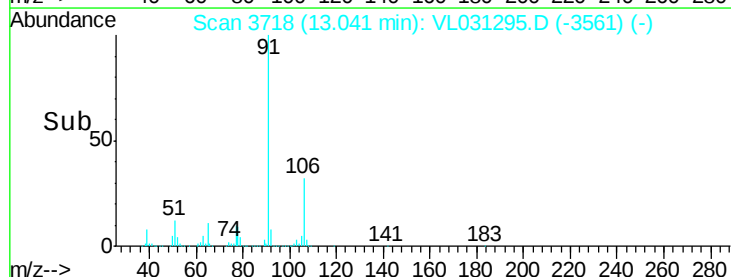
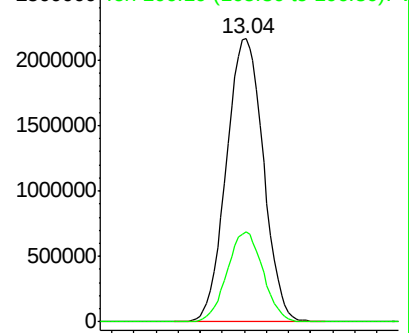
91 100

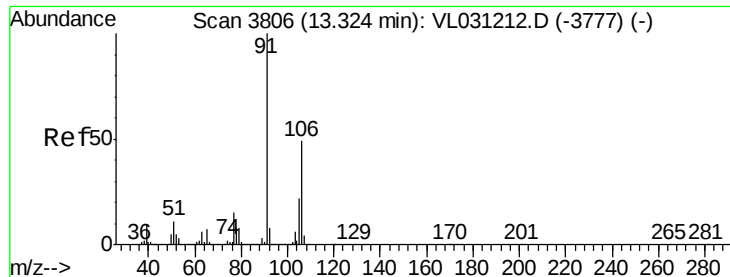
106 31.8 25.1 37.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





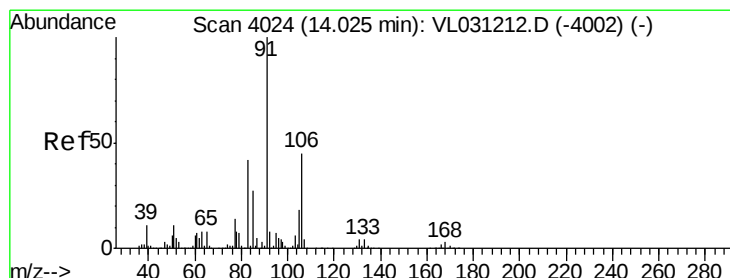
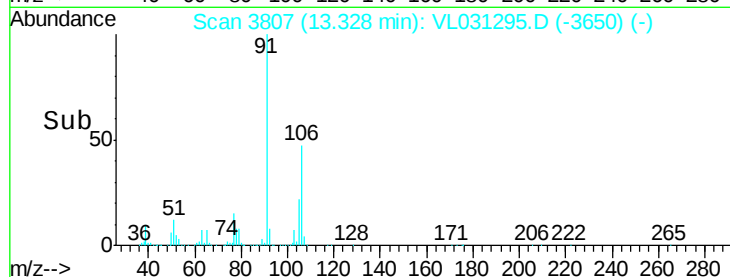
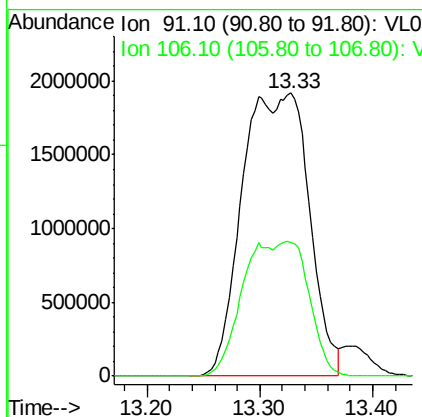
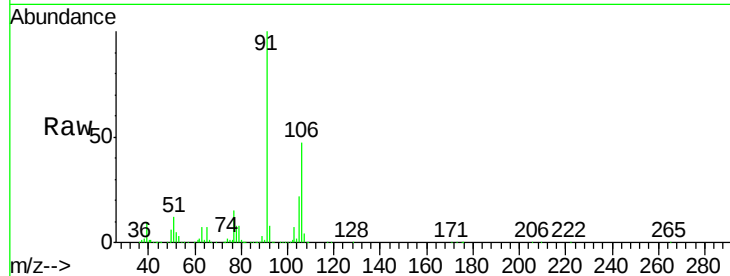
#59
m/p-Xylene
Concen: 16.86 ppbv m
RT: 13.33 min Scan# 3807
Delta R.T. 0.00 min
Lab File: VL031295.D
Acq: 21 Dec 2017 7:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 7871477
Ion Ratio Lower Upper
91 100
106 46.9 38.5 57.7

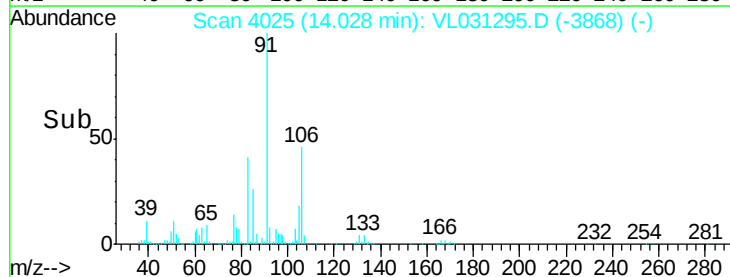
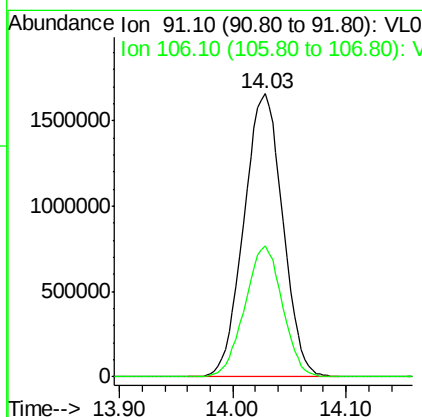
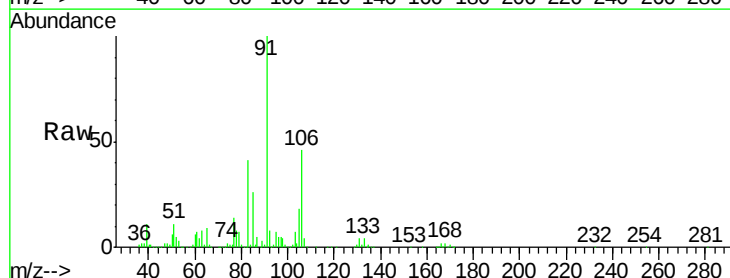
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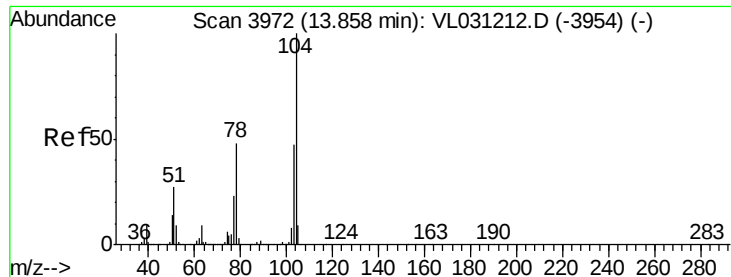
MMDadoda
12/22/2017 4:55:14 PM



#60
o-Xylene
Concen: 8.41 ppbv
RT: 14.03 min Scan# 4025
Delta R.T. 0.00 min
Lab File: VL031295.D
Acq: 21 Dec 2017 7:48

Tgt Ion: 91 Resp: 3957750
Ion Ratio Lower Upper
91 100
106 45.0 22.7 68.1





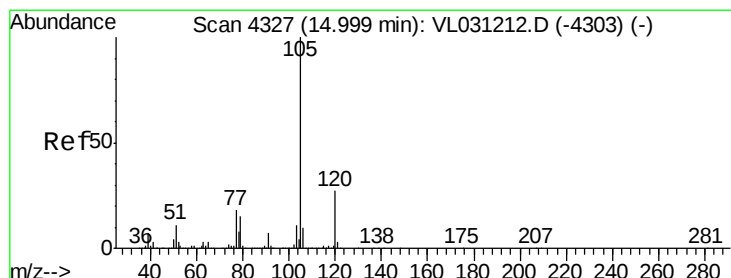
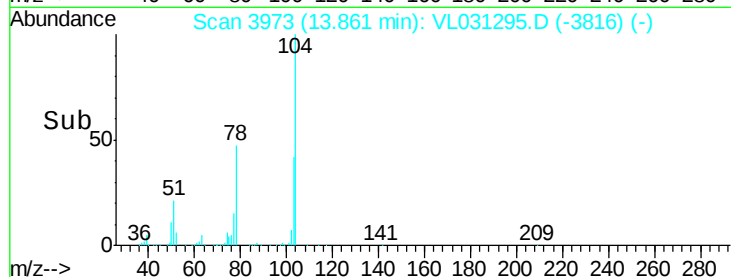
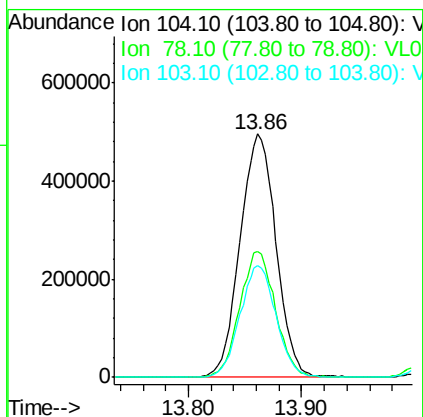
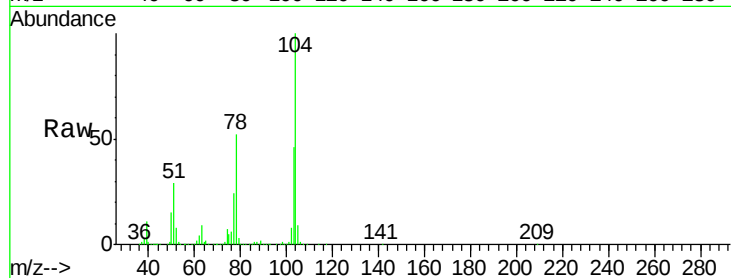
#61
Stvrene
Concen: 8.13 ppbv
RT: 13.86 min Scan# 3973
Delta R.T. 0.00 min
Lab File: VL031295.D
Acq: 21 Dec 2017 7:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	51.4	39.1	58.7
103	46.3	37.3	55.9

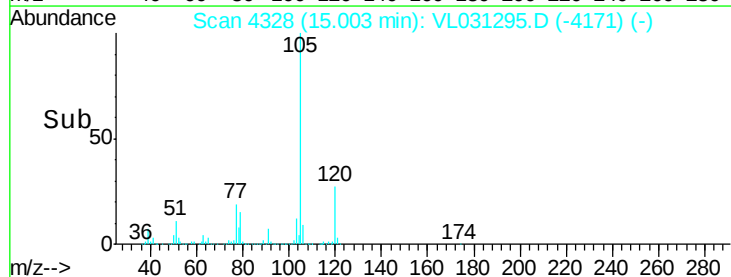
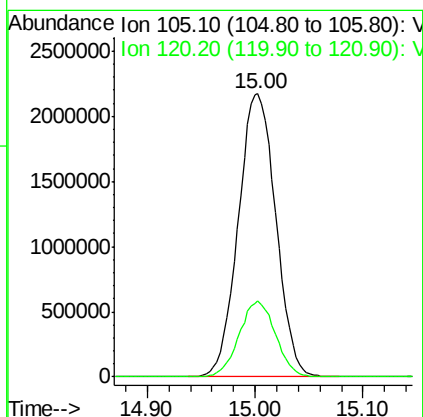
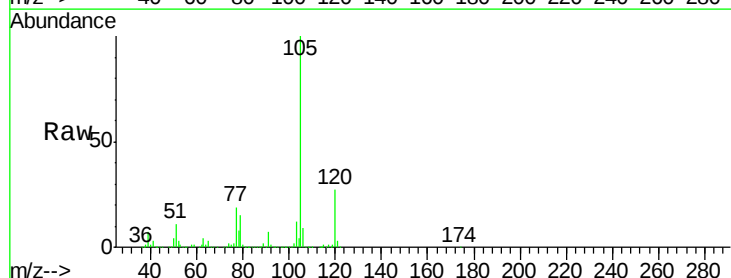
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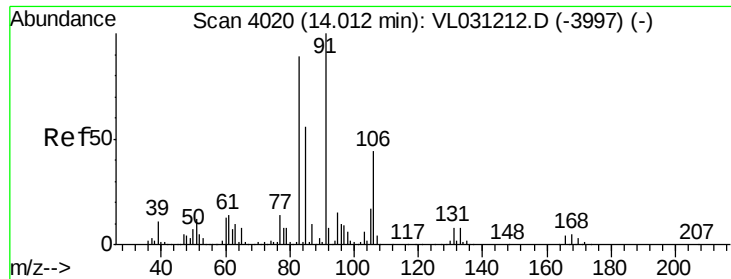
MMDadoda
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#62
Isopropylbenzene
Concen: 8.51 ppbv
RT: 15.00 min Scan# 4328
Delta R.T. 0.00 min
Lab File: VL031295.D
Acq: 21 Dec 2017 7:48

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.0	21.0	31.6





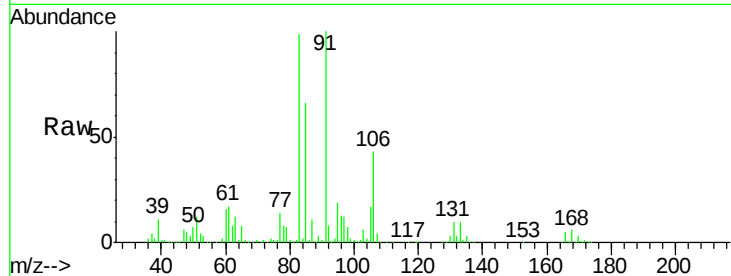
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.32 ppbv
 RT: 14.01 min Scan# 4020
 Delta R.T. 0.00 min
 Lab File: VL031295.D
 Acq: 21 Dec 2017 7:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

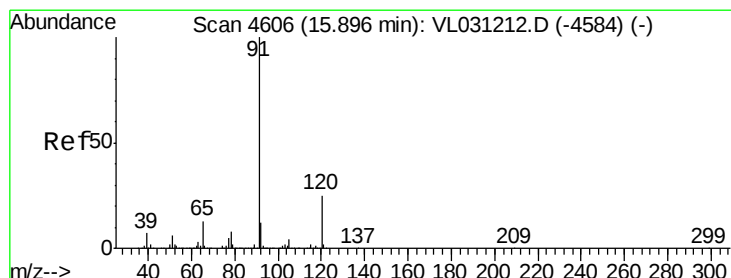
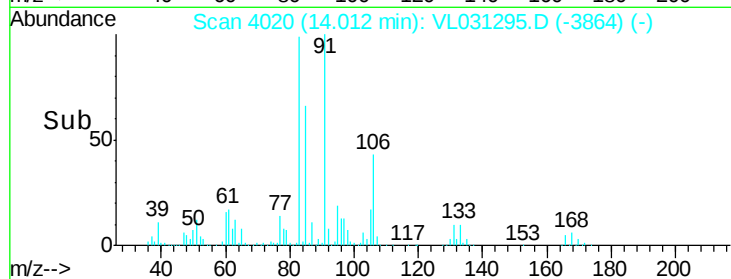
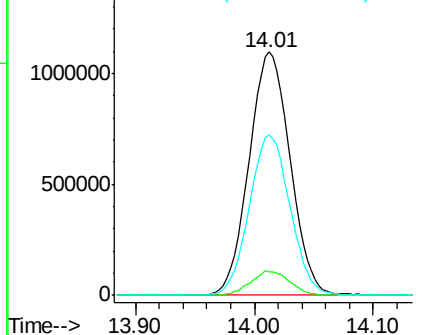
Tot Ion	83	Resp	2623829
Ion Ratio	100	Lower	Upper
83	100		
131	9.6	4.8	14.3
85	65.7	32.1	96.5

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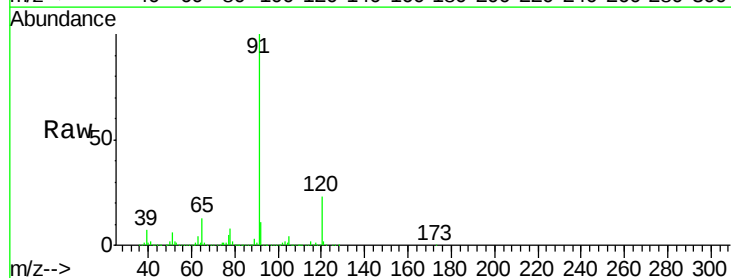


Abundance Ion 83.00 (82.70 to 83.70): VL0
 Ion 131.00 (130.70 to 131.70): V
 Ion 85.00 (84.70 to 85.70): VL0

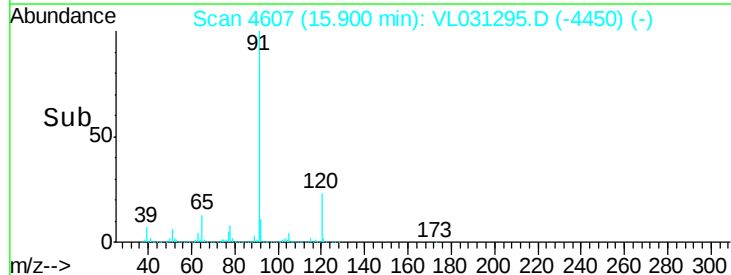
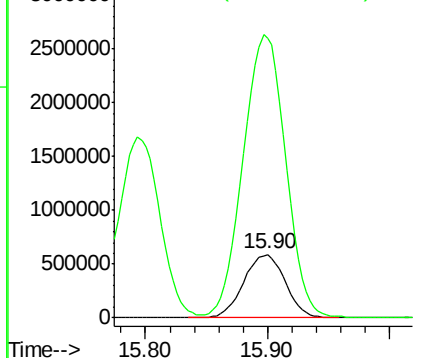


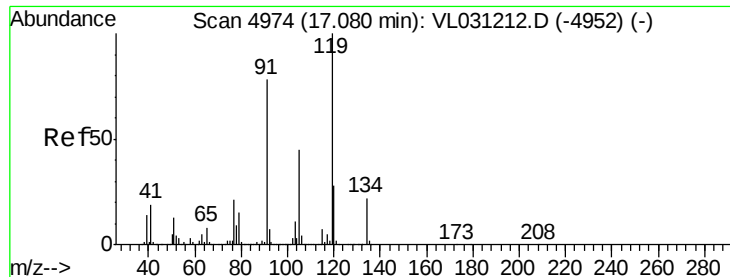
#64
 n-propylbenzene
 Concen: 8.47 ppbv
 RT: 15.90 min Scan# 4607
 Delta R.T. 0.00 min
 Lab File: VL031295.D
 Acq: 21 Dec 2017 7:48

Tgt Ion	120	Resp	1387450
Ion Ratio	100	Lower	Upper
120	100		
91	459.3	352.1	528.1



Abundance Ion 120.20 (119.90 to 120.90): V
 Ion 91.10 (90.80 to 91.80): VL0





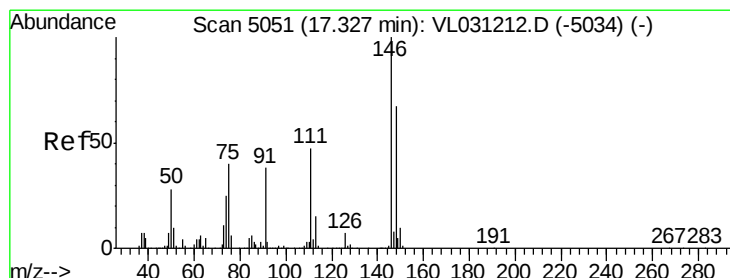
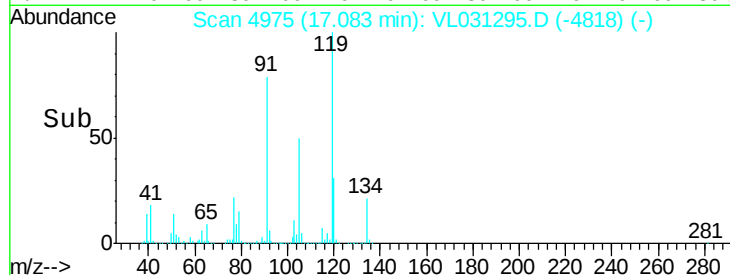
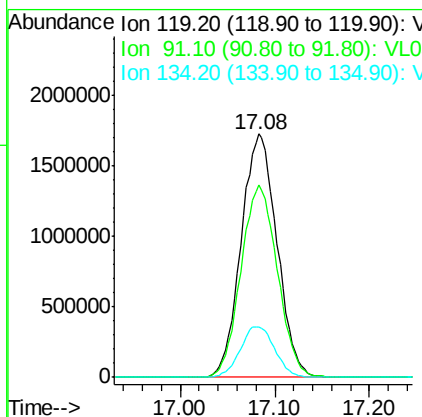
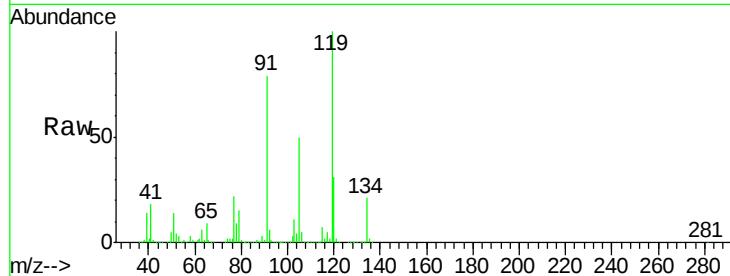
#65
tert-Butylbenzene
Concen: 8.29 ppbv
RT: 17.08 min Scan# 4975
Delta R.T. 0.00 min
Lab File: VL031295.D
Acq: 21 Dec 2017 7:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
91	80.4	63.3	94.9
134	20.1	16.1	24.1

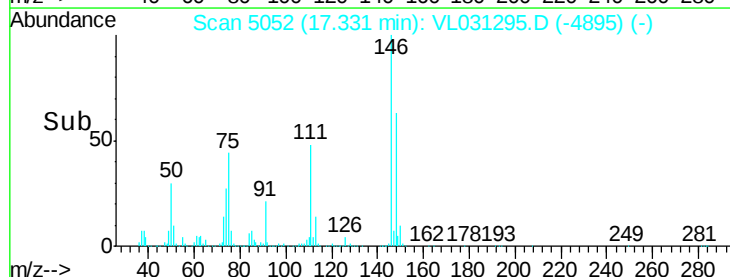
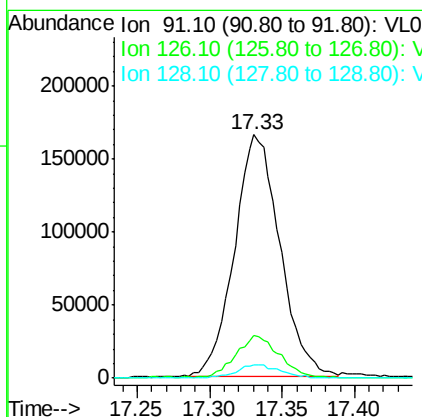
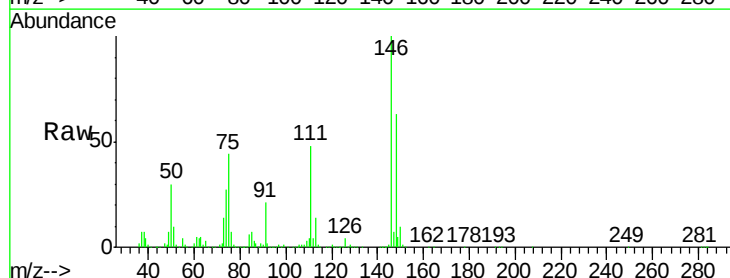
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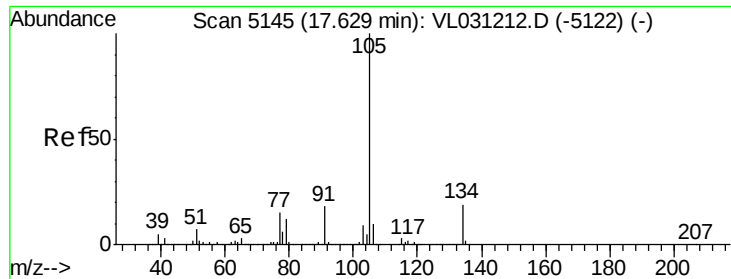
MM Dadoda
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#66
Benzyl Chloride
Concen: 6.08 ppbv
RT: 17.33 min Scan# 5052
Delta R.T. 0.00 min
Lab File: VL031295.D
Acq: 21 Dec 2017 7:48

Tgt Ion	Ratio	Lower	Upper
91	100		
126	17.6	15.2	22.8
128	5.5	4.9	7.3





#67

sec-Butylbenzene

Concen: 8.50 ppbv

RT: 17.63 min Scan# 5145

Delta R.T. 0.00 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 6385684

Ion Ratio Lower Upper

105 100

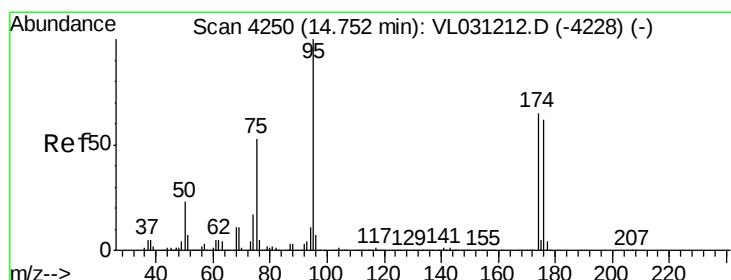
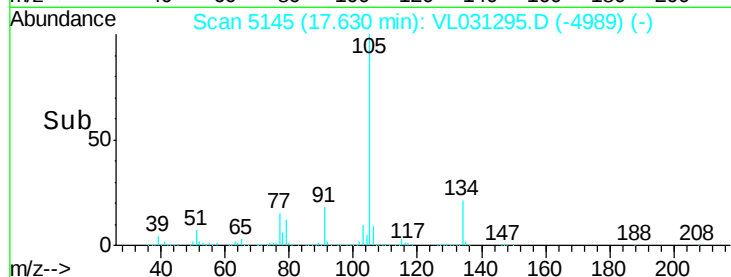
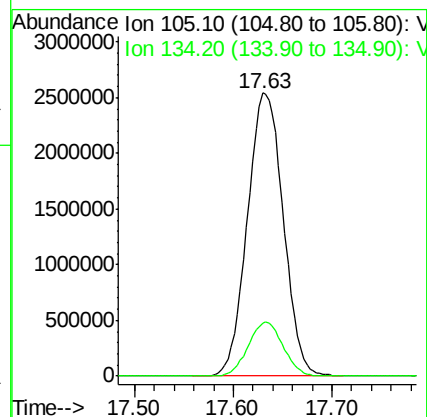
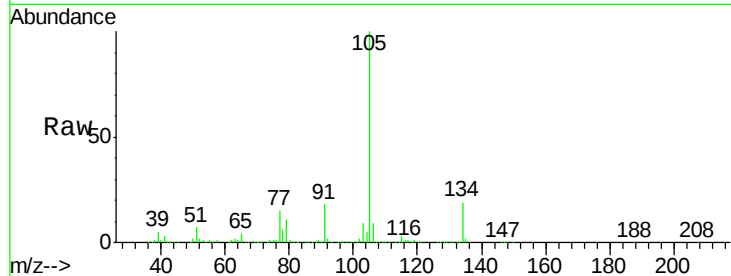
134 18.6 15.3 22.9

Manual Integrations

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#68

1-Bromo-4-Fluorobenzene

Concen: 10.06 ppbv

RT: 14.75 min Scan# 4250

Delta R.T. 0.00 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

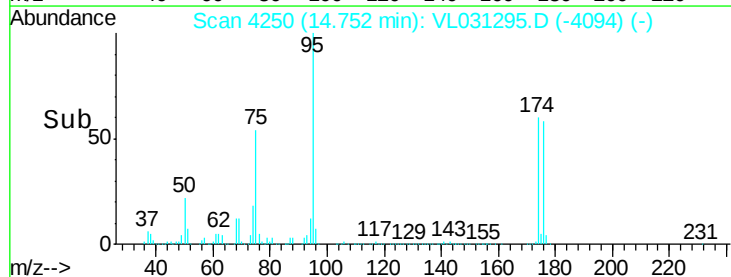
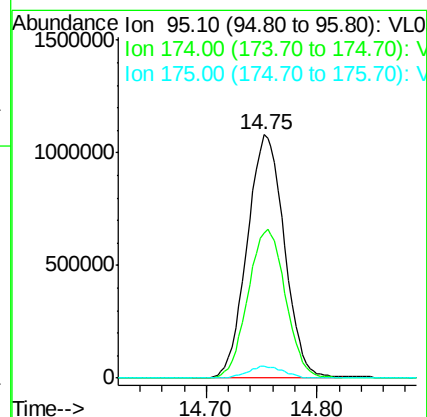
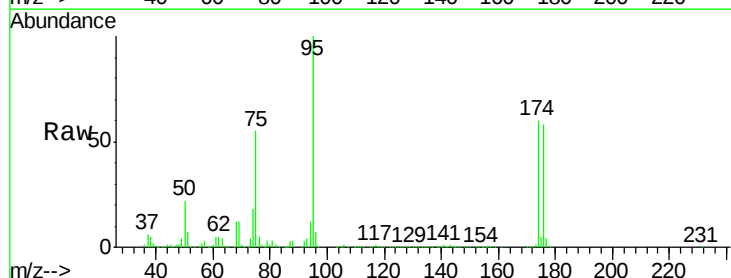
Tgt Ion: 95 Resp: 2527326

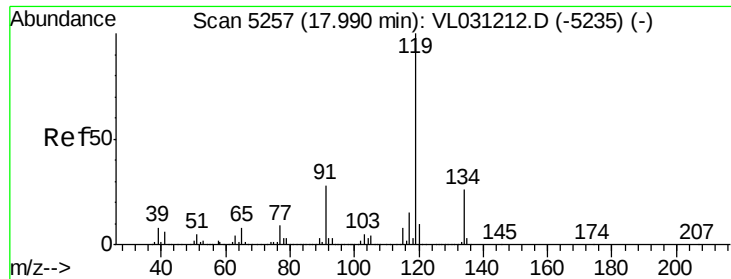
Ion Ratio Lower Upper

95 100

174 62.1 52.5 78.7

175 4.7 4.1 6.1





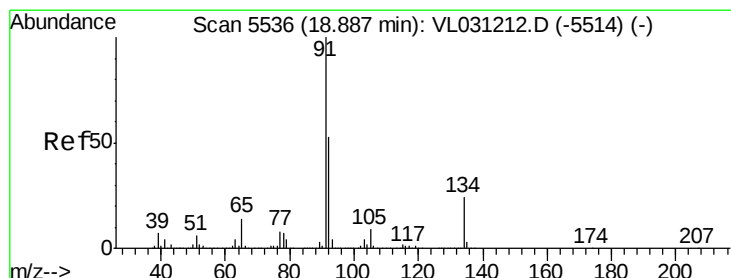
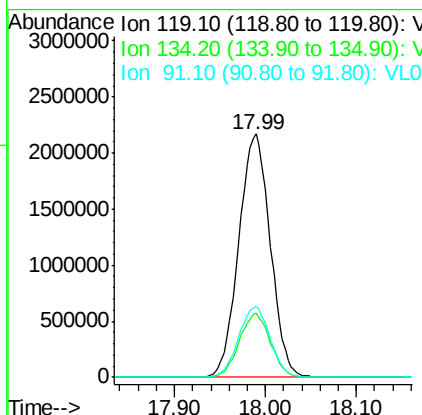
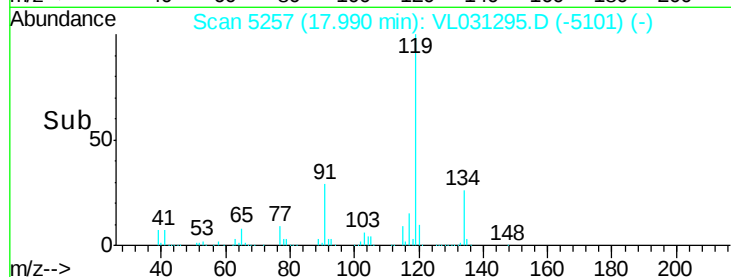
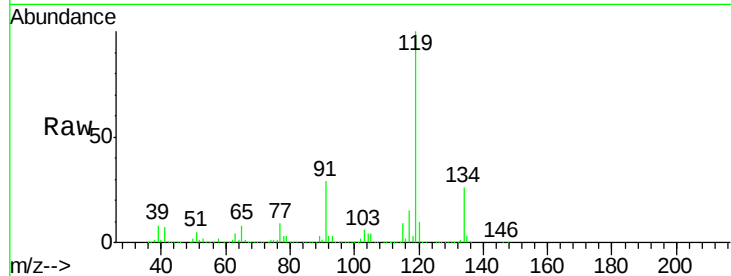
#69
 p-Isopropyltoluene
 Concen: 8.33 ppbv
 RT: 17.99 min Scan# 5257
 Delta R.T. 0.00 min
 Lab File: VL031295.D
 Acq: 21 Dec 2017 7:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.9	20.7	31.1
91	29.1	22.3	33.5

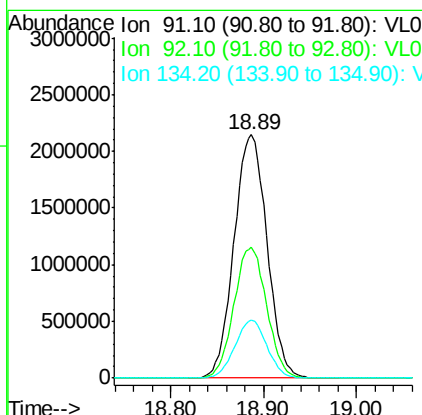
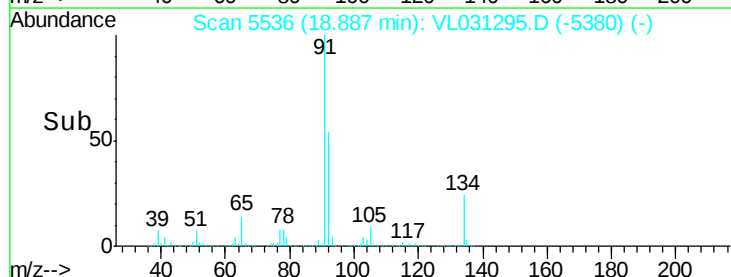
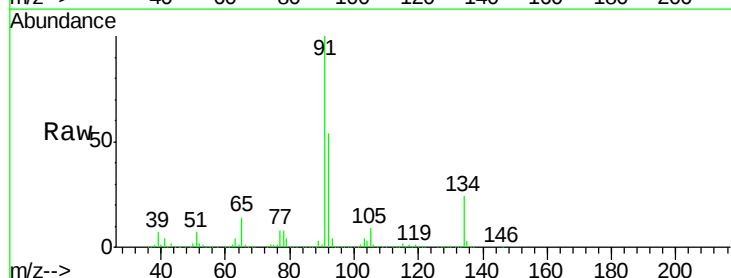
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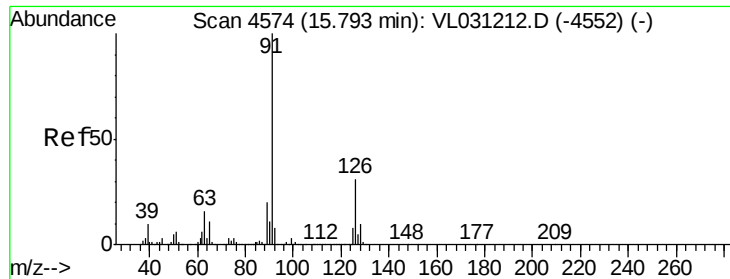
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#70
 n-Butylbenzene
 Concen: 8.75 ppbv
 RT: 18.89 min Scan# 5536
 Delta R.T. 0.00 min
 Lab File: VL031295.D
 Acq: 21 Dec 2017 7:48

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.4	43.4	65.2
134	23.2	19.3	28.9





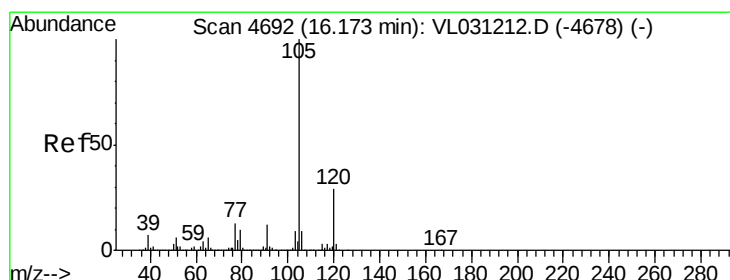
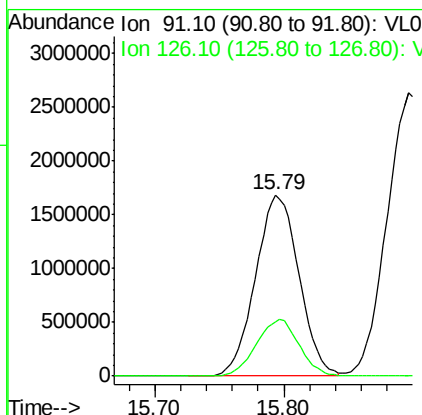
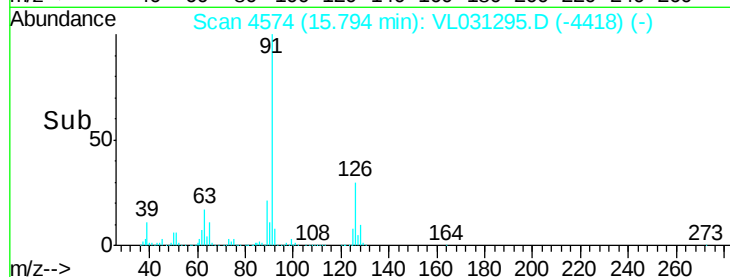
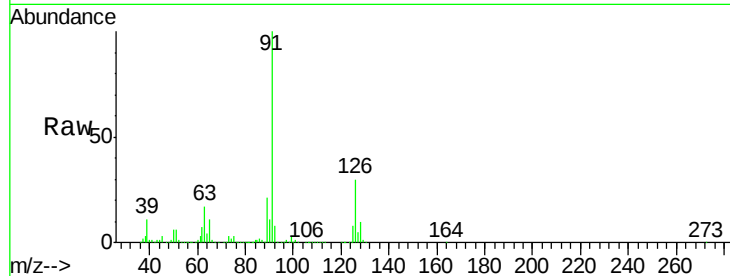
#71
 2-Chlorotoluene
 Concen: 8.65 ppbv
 RT: 15.79 min Scan# 4574
 Delta R.T. 0.00 min
 Lab File: VL031295.D
 Acq: 21 Dec 2017 7:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 91 Resp: 3958336
 Ion Ratio Lower Upper
 91 100
 126 31.0 12.6 50.6

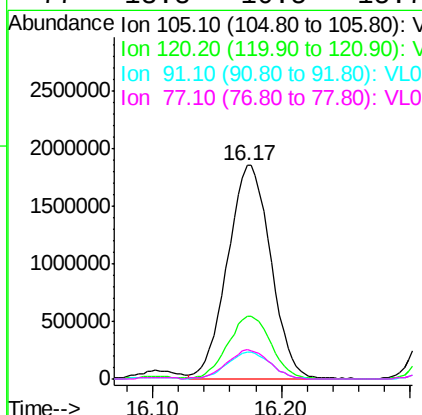
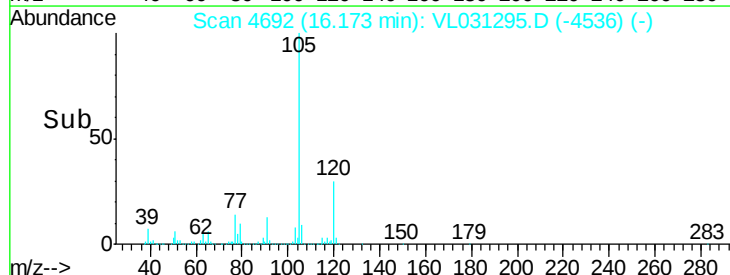
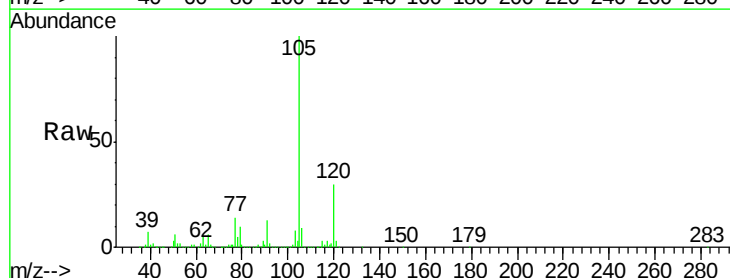
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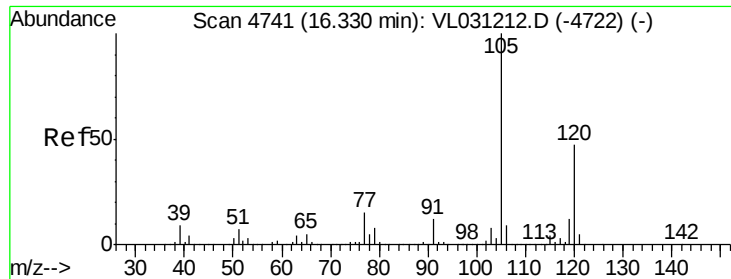
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#72
 4-Ethyltoluene
 Concen: 8.37 ppbv
 RT: 16.17 min Scan# 4692
 Delta R.T. 0.00 min
 Lab File: VL031295.D
 Acq: 21 Dec 2017 7:48

Tgt Ion:105 Resp: 4311624
 Ion Ratio Lower Upper
 105 100
 120 29.7 24.2 36.2
 91 12.7 9.8 14.8
 77 13.8 10.5 15.7





#73

1,3,5-Trimethylbenzene

Concen: 8.42 ppbv

RT: 16.33 min Scan# 4742

Delta R.T. 0.00 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 3861060

Ion Ratio Lower Upper

105 100

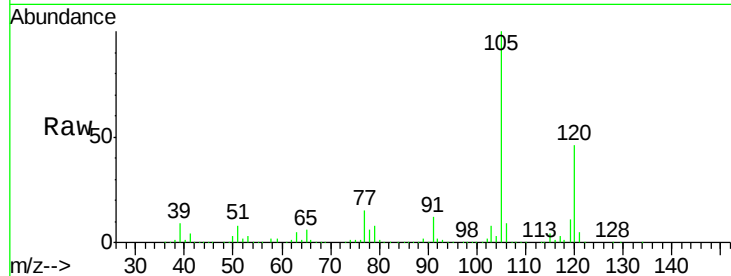
120 46.3 37.8 56.6

Manual Integrations

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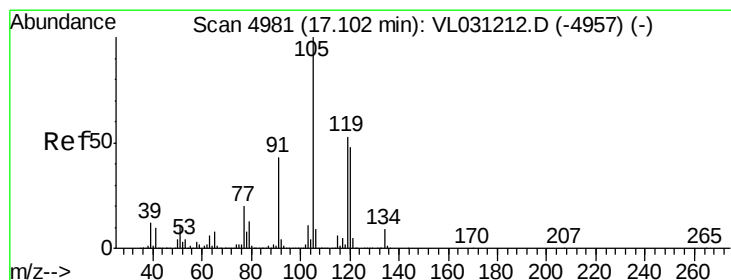
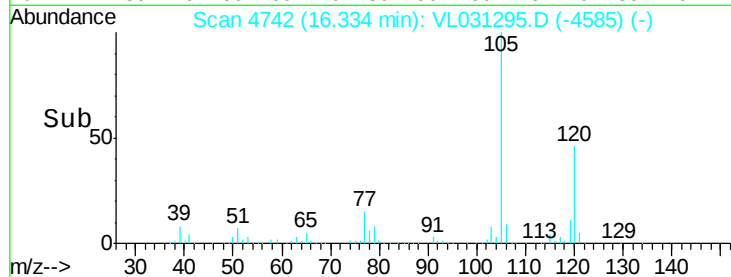
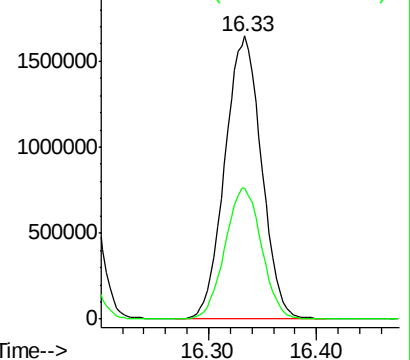
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 8.20 ppbv

RT: 17.10 min Scan# 4981

Delta R.T. 0.00 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

Tgt Ion:105 Resp: 3955986

Ion Ratio Lower Upper

105 100

120 47.0 38.6 58.0

91 45.6 34.2 51.4

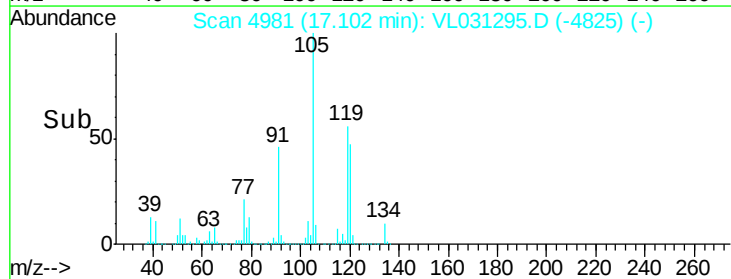
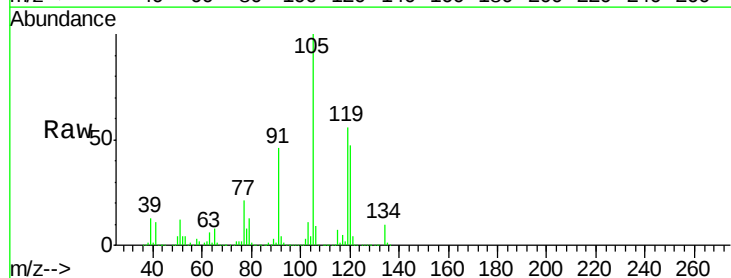
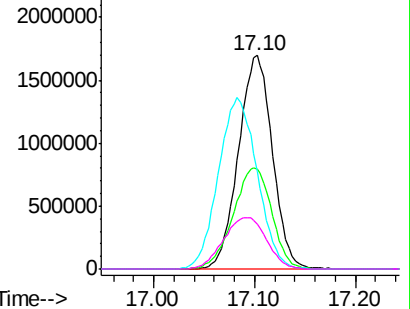
77 21.2 16.1 24.1

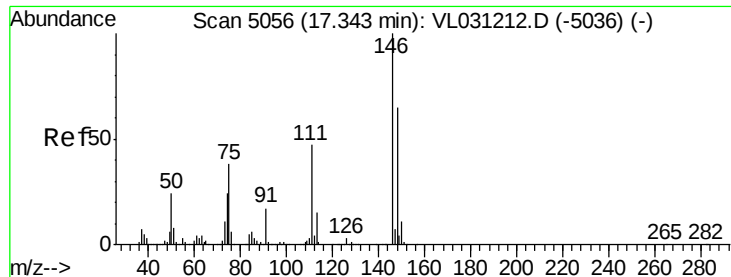
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 8.06 ppbv

RT: 17.34 min Scan# 5055

Delta R.T. -0.00 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 2464108

Ion Ratio Lower Upper

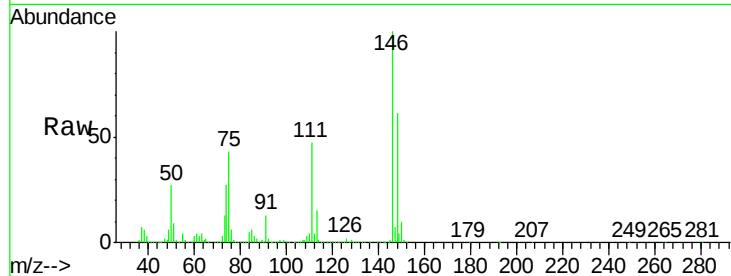
146 100

111 47.6 22.7 68.1

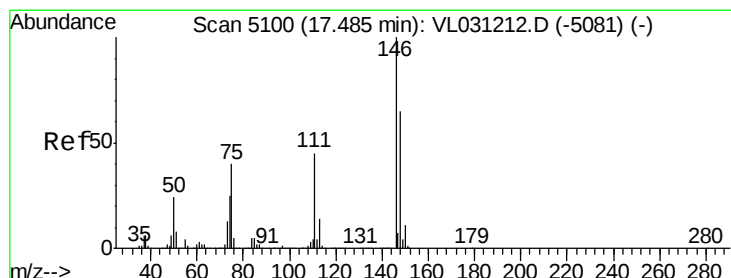
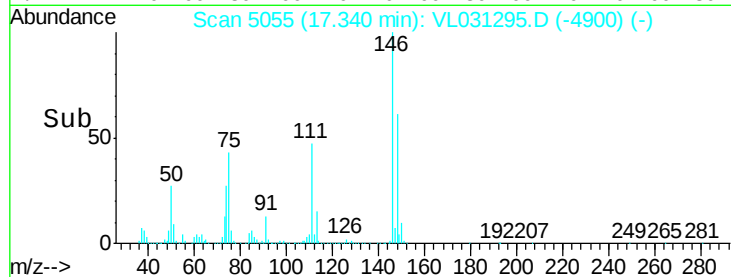
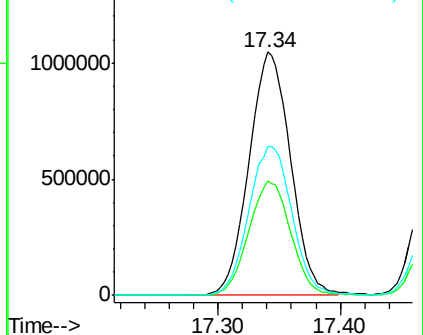
148 63.8 32.0 96.2

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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 8.05 ppbv

RT: 17.48 min Scan# 5100

Delta R.T. 0.00 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

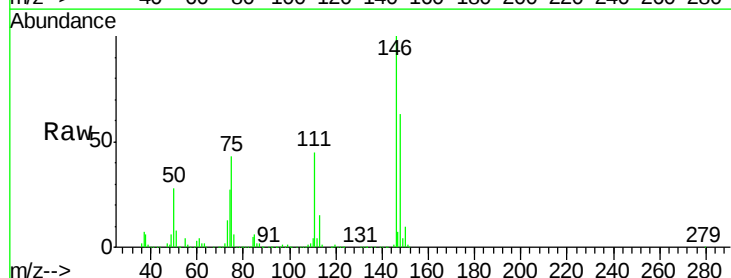
Tgt Ion:146 Resp: 2489504

Ion Ratio Lower Upper

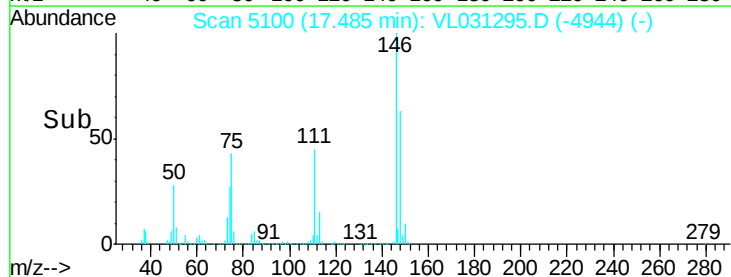
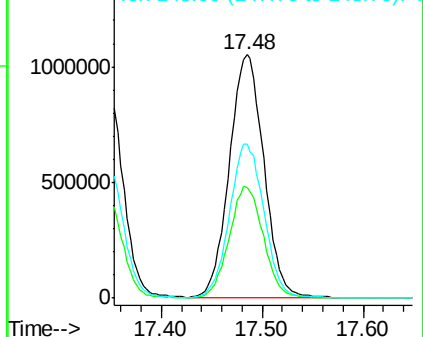
146 100

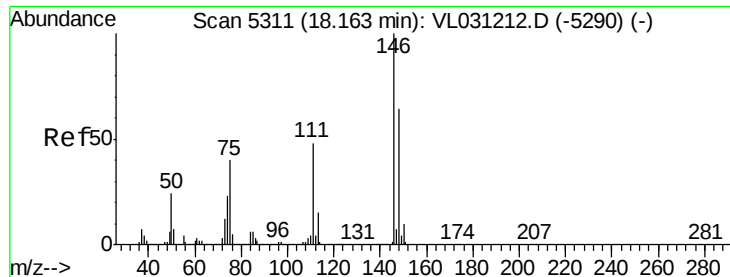
111 45.8 22.1 66.1

148 63.9 32.0 96.0



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V





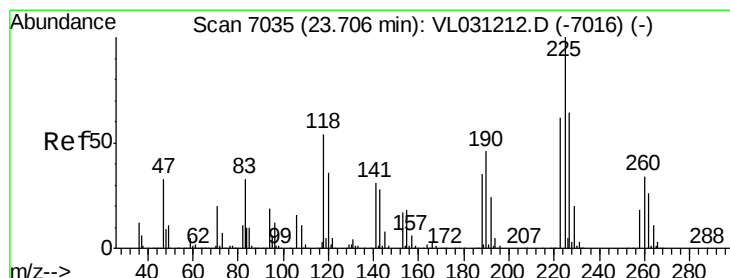
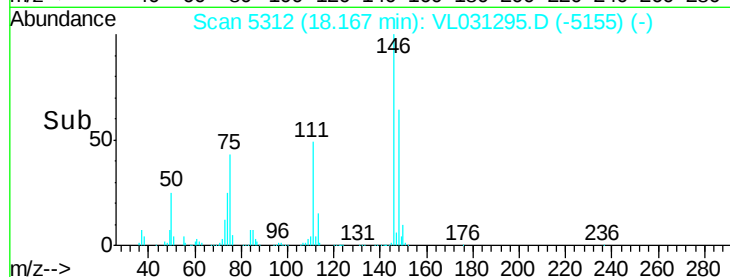
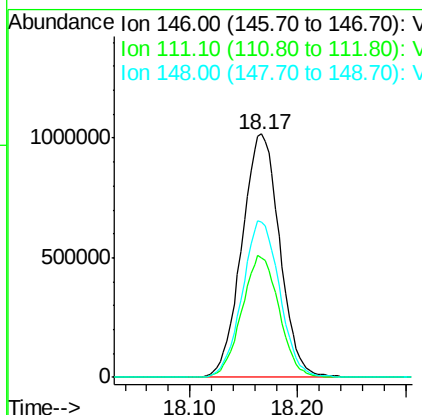
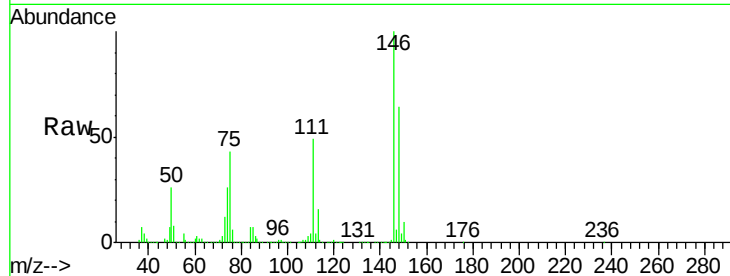
#77
 1,2-Dichlorobenzene
 Concen: 8.29 ppbv
 RT: 18.17 min Scan# 5312
 Delta R.T. 0.00 min
 Lab File: VL031295.D
 Acq: 21 Dec 2017 7:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.2	23.3	69.8
148	63.6	31.9	95.7

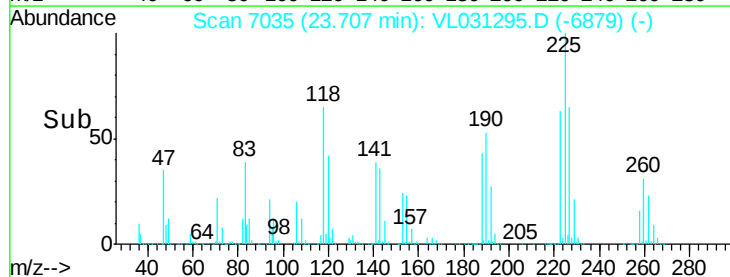
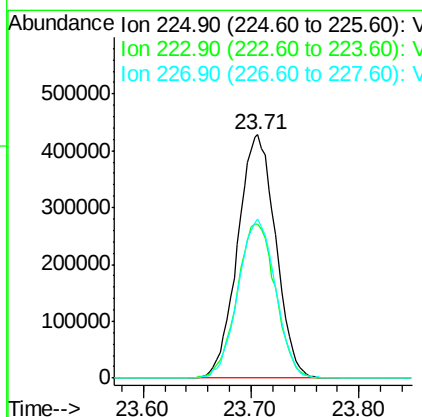
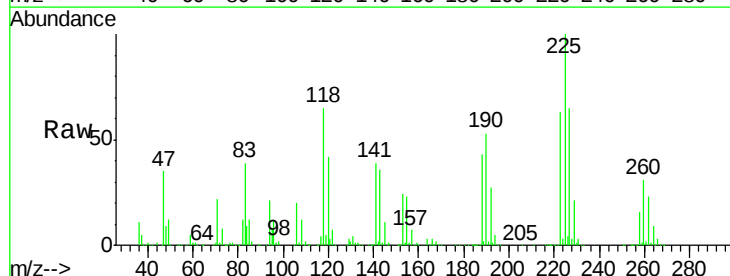
Manual Integrations
 APPROVED

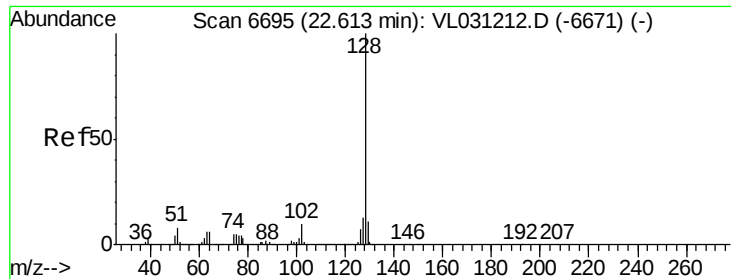
MMDadoda
 12/22/2017 4:55:14 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 15.24 ppbv
 RT: 23.71 min Scan# 7035
 Delta R.T. 0.00 min
 Lab File: VL031295.D
 Acq: 21 Dec 2017 7:48

Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.3	50.4	75.6
227	64.8	51.3	76.9





#79

Naphthalene

Concen: 7.94 ppbv

RT: 22.61 min Scan# 6695

Delta R.T. 0.00 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:128 Resp: 3101588

Ion Ratio Lower Upper

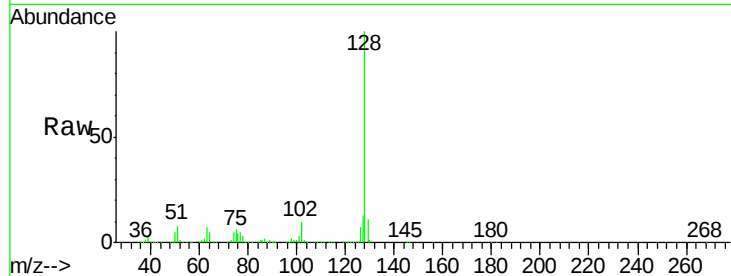
128 100

127 13.1 10.2 15.2

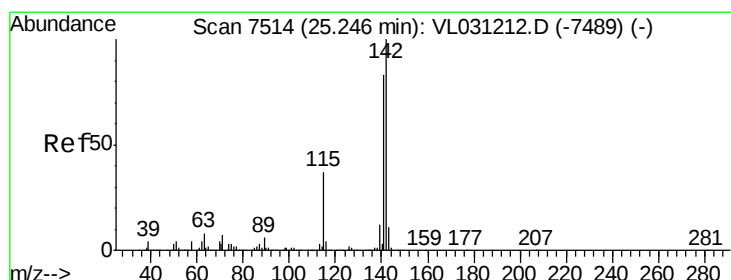
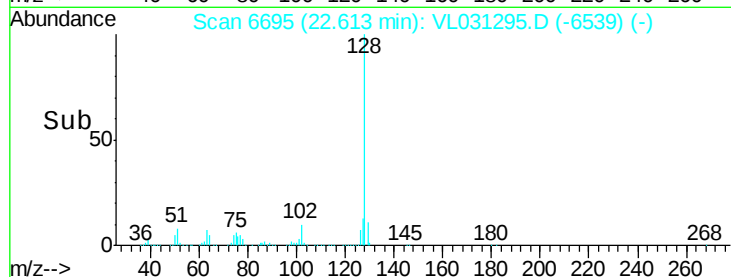
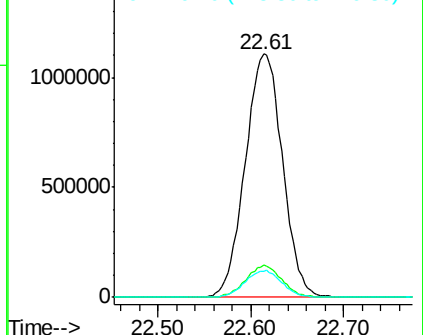
129 10.7 8.9 13.3

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Abundance Ion 128.10 (127.80 to 128.80): V
1500000 Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 5.00 ppbv

RT: 25.25 min Scan# 7514

Delta R.T. 0.00 min

Lab File: VL031295.D

Acq: 21 Dec 2017 7:48

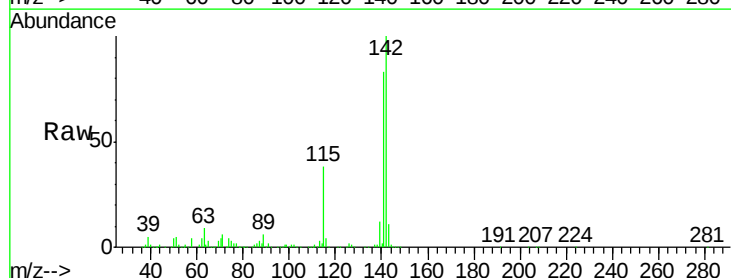
Tgt Ion:142 Resp: 727157

Ion Ratio Lower Upper

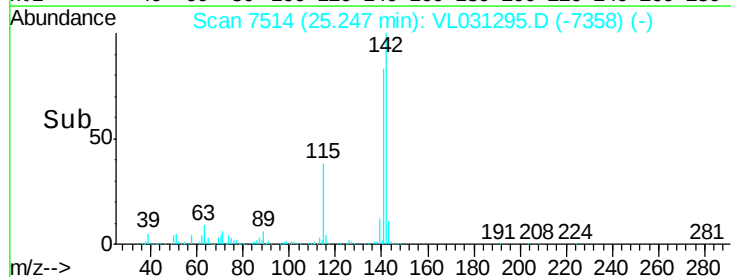
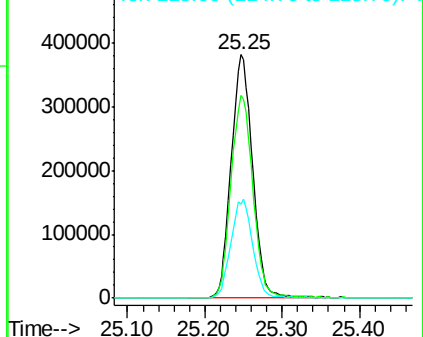
142 100

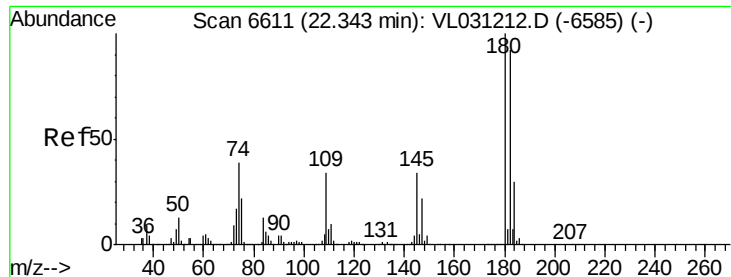
141 85.6 66.8 100.2

115 41.2 29.7 44.5



Abundance Ion 142.00 (141.70 to 142.70): V
500000 Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 7.72 ppbv
 RT: 22.34 min Scan# 6611
 Delta R.T. 0.00 min
 Lab File: VL031295.D
 Acq: 21 Dec 2017 7:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	75.9	113.9
184	30.5	24.2	36.2

Manual Integrations
 APPROVED

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