

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL122017\
 Data File : VL031266.D
 Acq On : 20 Dec 2017 11:51
 Operator : SY/AP
 Sample : VL1220ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1220ABS01

Manual Integrations
 APPROVED

MMDadoda
 12/22/2017 4:54:42 PM

Quant Time: Dec 22 03:56:17 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	1674039	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.46	114	4109677	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.42	117	4376801m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.76	95	3204230	10.29	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.18	85	1729643	12.23	ppbv	99
3) Chlorodifluoromethane	3.12	51	1794267	9.43	ppbv	97
4) Chloromethane	3.28	50	1023951	9.96	ppbv	100
5) Vinyl Chloride	3.40	62	971528	9.13	ppbv	99
6) Bromomethane	3.63	94	633008	10.04	ppbv	98
7) Chloroethane	3.72	64	376754	9.57	ppbv	97
8) Dichlorotetrafluoroethane	3.32	85	2147537	10.94	ppbv	98
9) Propene	3.14	41	885285	9.48	ppbv	98
10) Heptane	8.41	43	2436286	8.57	ppbv	99
11) Trichlorofluoromethane	4.13	101	2526167	10.87	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.69	101	1518789	9.33	ppbv	96
13) Ethanol	3.76	45	203932	7.57	ppbv	99
14) Bromoethene	3.91	108	712283	10.17	ppbv	98
15) Acetone	4.02	43	1997513	9.04	ppbv	100
16) 1,3-Butadiene	3.47	39	856305	9.01	ppbv	98
17) tert-Butyl alcohol	4.49	59	751290	6.06	ppbv	99
18) 1,1-Dichloroethene	4.49	96	708648	9.71	ppbv	91
19) Isopropyl Alcohol	4.15	45	1189161	8.51	ppbv #	43
20) Methylene Chloride	4.54	84	647740	8.86	ppbv	95
21) Allyl Chloride	4.61	41	1122797	8.64	ppbv	94
22) trans-1,2-Dichloroethene	5.11	96	798498	8.90	ppbv	98
23) Vinyl Acetate	5.30	43	2948192	8.28	ppbv	98
24) 1,1-Dichloroethane	5.23	63	2309520	8.93	ppbv	100
25) Ethyl Acetate	5.92	43	3676314	8.15	ppbv	99
26) Hexane	5.93	57	1748011	8.17	ppbv	97
27) Carbon Disulfide	4.76	76	1849991	8.63	ppbv	99
28) Methyl tert-Butyl Ether	5.25	73	2163933	7.73	ppbv	98
29) Chloroform	6.00	83	2771255	9.59	ppbv	100
30) Cyclohexane	7.41	84	1470127	7.80	ppbv	98
31) cis-1,2-Dichloroethene	5.79	61	1706711	8.79	ppbv	99
32) 1,1,1-Trichloroethane	6.78	97	2667484	8.63	ppbv	98
34) 2-Butanone	5.47	43	2623323	9.04	ppbv	98
35) Carbon Tetrachloride	7.30	117	2805762	9.53	ppbv	97
36) Benzene	7.17	78	3670615	8.43	ppbv	98
37) 1,2-Dichloroethane	6.57	62	2293625	9.55	ppbv	97
38) Trichloroethene	8.13	130	1364414	8.03	ppbv	99
39) 1,2-Dichloropropane	7.90	63	1352796	8.78	ppbv	95
40) 1,4-Dioxane	8.12	88	580745	10.45	ppbv #	91
41) Tetrahydrofuran	6.30	42	1356465	8.31	ppbv	98
42) Bromodichloromethane	8.09	83	2922205	10.32	ppbv	99
43) Methyl Methacrylate	8.30	69	1372375	9.41	ppbv	98

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Manual Integrations
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Quant Time: Dec 22 03:56:17 2017
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 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)
44) 2,2,4-Trimethylpentane	8.16	57	5821168	8.85	ppbv	99
45) t-1,3-Dichloropropene	9.59	75	1864806	9.35	ppbv	100
46) cis-1,3-Dichloropropene	9.01	75	2321455	9.25	ppbv	99
47) 1,1,2-Trichloroethane	9.79	97	1512080	9.47	ppbv	97
48) Dibromochloromethane	10.63	129	2423301	9.71	ppbv	100
49) Bromoform	13.38	173	1800052	9.78	ppbv	100
50) 4-Methyl-2-Pentanone	9.04	43	3268725	9.20	ppbv	98
51) 2-Hexanone	10.44	43	2994662	8.83	ppbv #	96
52) Tetrachloroethene	11.55	164	1265028	7.87	ppbv	96
53) Toluene	10.12	91	4323364	9.15	ppbv	98
54) 1,2-Dibromoethane	10.94	107	2315946	9.57	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.46	131	1672018	8.56	ppbv	98
57) Chlorobenzene	12.48	112	3210062	7.87	ppbv	98
58) Ethyl Benzene	13.04	91	5709198	7.90	ppbv	99
59) m/p-Xylene	13.33	91	9101227m	15.73	ppbv	
60) o-Xylene	14.03	91	4616117	7.92	ppbv	98
61) Styrene	13.86	104	1251574	7.48	ppbv	97
62) Isopropylbenzene	15.00	105	5921617	7.74	ppbv	99
63) 1,1,2,2-Tetrachloroethane	14.01	83	3051487	7.81	ppbv	99
64) n-propylbenzene	15.90	120	1541199	7.59	ppbv	89
65) tert-Butylbenzene	17.09	119	5285087	7.80	ppbv	97
66) Benzyl Chloride	17.33	91	468046	6.41	ppbv	95
67) sec-Butylbenzene	17.64	105	7216705	7.75	ppbv	99
69) p-Isopropyltoluene	17.99	119	5947716	7.66	ppbv	98
70) n-Butylbenzene	18.89	91	6183519	8.26	ppbv	99
71) 2-Chlorotoluene	15.80	91	4592780	8.09	ppbv	98
72) 4-Ethyltoluene	16.18	105	5204455	8.15	ppbv	99
73) 1,3,5-Trimethylbenzene	16.33	105	4591955	8.08	ppbv	99
74) 1,2,4-Trimethylbenzene	17.10	105	4642065	7.76	ppbv #	93
75) 1,3-Dichlorobenzene	17.35	146	2836410	7.48	ppbv	99
76) 1,4-Dichlorobenzene	17.48	146	2854868	7.45	ppbv	99
77) 1,2-Dichlorobenzene	18.17	146	2858743	7.72	ppbv	98
78) Hexachloro-1,3-Butadiene	23.71	225	1267314	14.89	ppbv	99
79) Naphthalene	22.62	128	3729817	7.71	ppbv	99
80) Naphthalene, 2-methyl-	25.25	142	1130928	6.27	ppbv	98
81) 1,2,4-Trichlorobenzene	22.35	180	1728994	7.67	ppbv	100

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

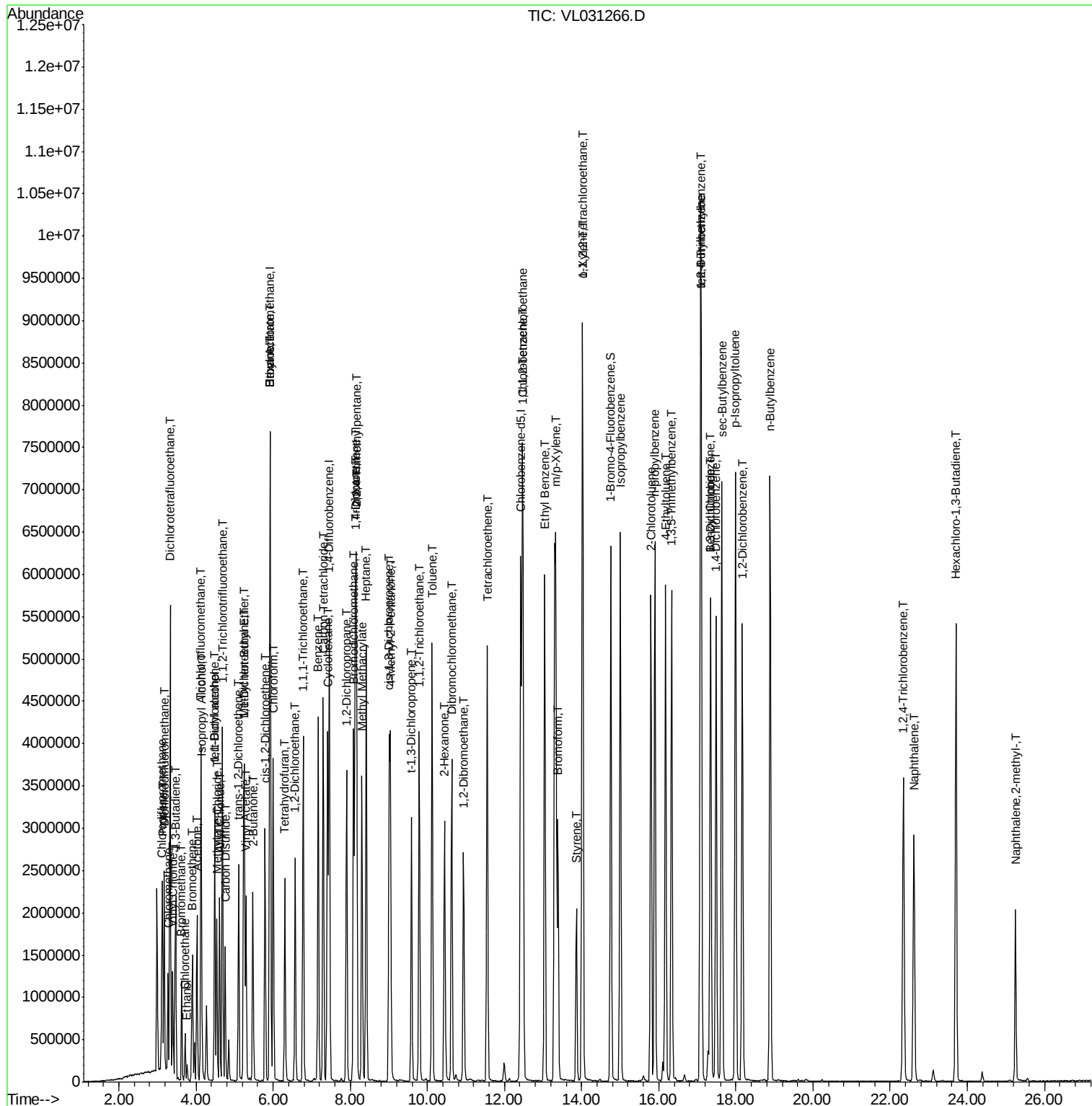
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Data Path : W:\HPCHEM1\MSVOA L\DATA\VL122017\  
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Operator  : SY/AP  
Sample    : VL1220ABS01  
Misc      : 400ml/MSVOA L  
ALS Vial  : 1      Sample Multiplier: 1
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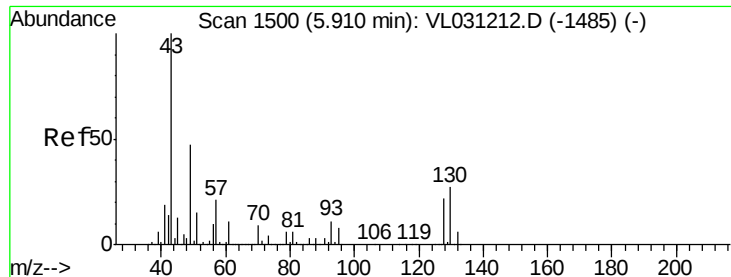
Instrument :
MSVOA_L
ClientSampleId :
VL1220ABS01

Manual Integrations APPROVED

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12/22/2017 4:54:42 PM

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QLast Update : Thu Dec 14 04:29:58 2017
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.91 min Scan# 1501

Delta R.T. 0.00 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1220ABS01

Tot Ion: 49 Resp: 1674039

Ion Ratio Lower Upper

49 100

128 47.7 23.2 69.5

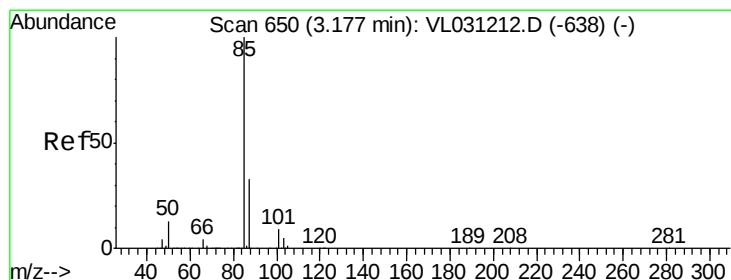
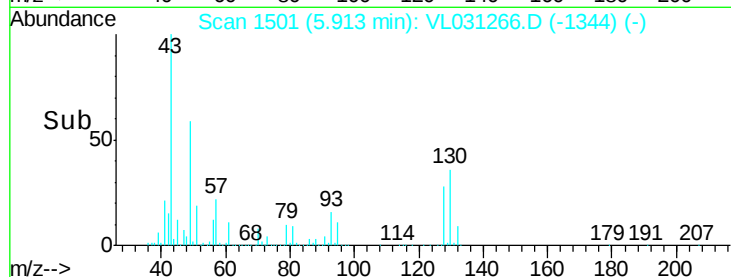
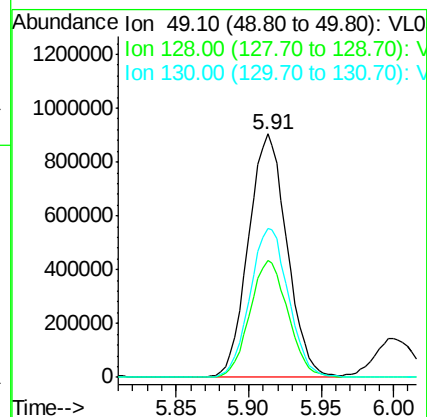
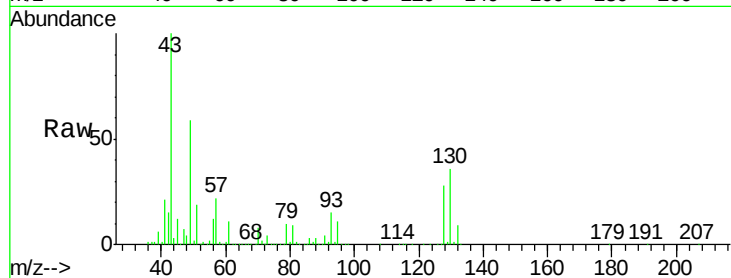
130 61.6 29.6 88.8

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 12.23 ppbv

RT: 3.18 min Scan# 650

Delta R.T. 0.00 min

Lab File: VL031266.D

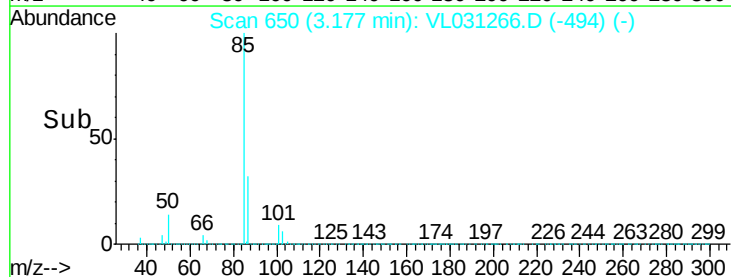
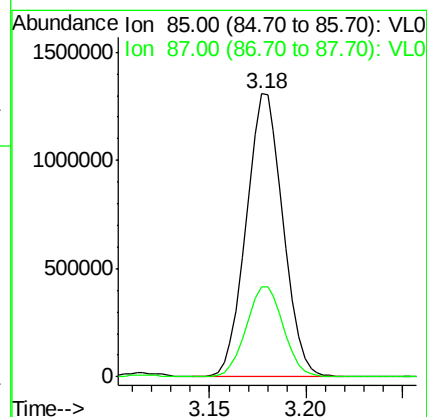
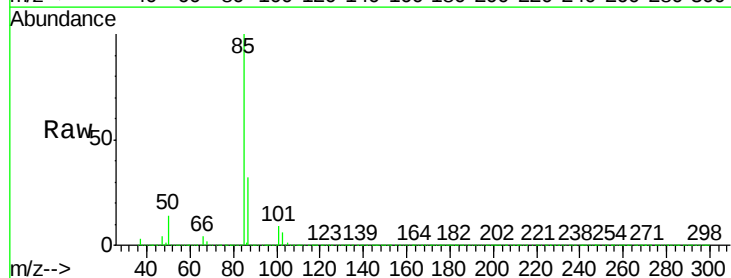
Acq: 20 Dec 2017 11:51

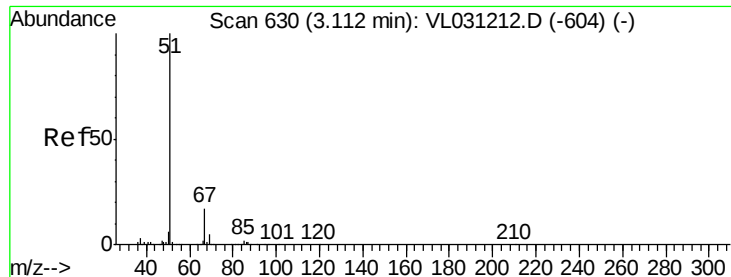
Tgt Ion: 85 Resp: 1729643

Ion Ratio Lower Upper

85 100

87 31.9 26.2 39.2





#3

Chlorodifluoromethane

Concen: 9.43 ppbv

RT: 3.12 min Scan# 631

Delta R.T. 0.00 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1220ABS01

Tot Ion: 51 Resp: 1794267

Ion Ratio Lower Upper

51 100

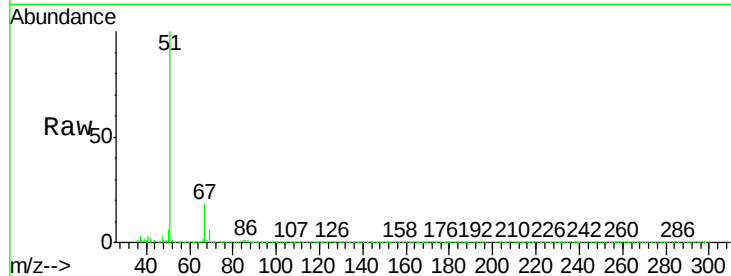
67 18.6 13.8 20.6

Manual Integrations

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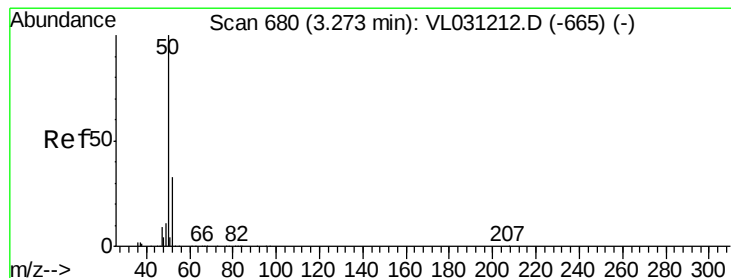
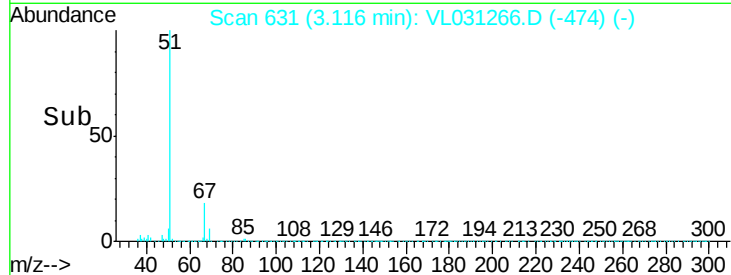
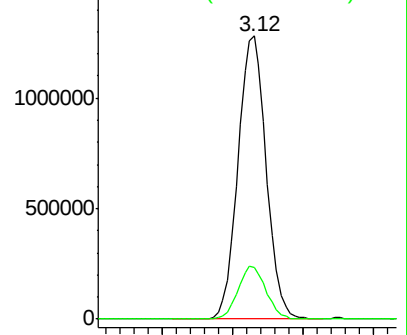
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.96 ppbv

RT: 3.28 min Scan# 681

Delta R.T. 0.00 min

Lab File: VL031266.D

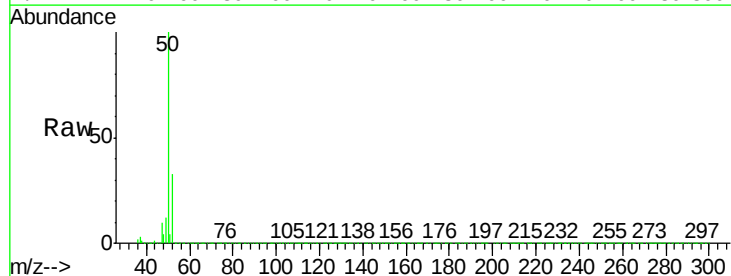
Acq: 20 Dec 2017 11:51

Tgt Ion: 50 Resp: 1023951

Ion Ratio Lower Upper

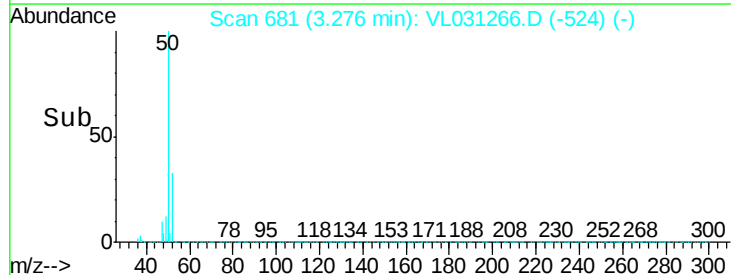
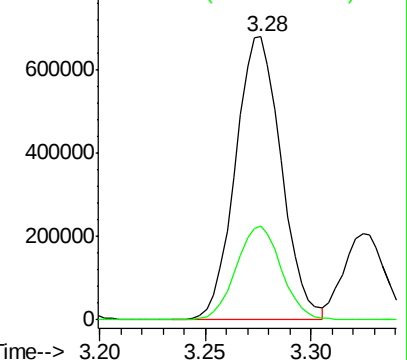
50 100

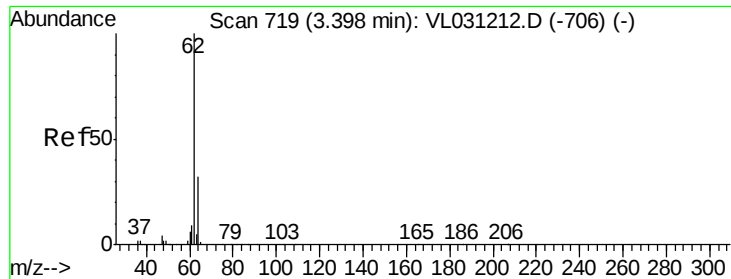
52 32.9 26.5 39.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.13 ppbv

RT: 3.40 min Scan# 719

Delta R.T. 0.00 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1220ABS01

Tot Ion: 62 Resp: 971528

Ion Ratio Lower Upper

62 100

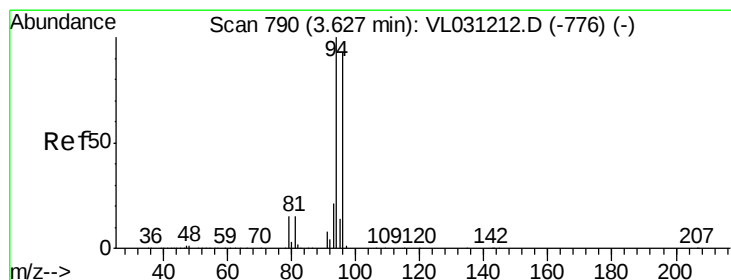
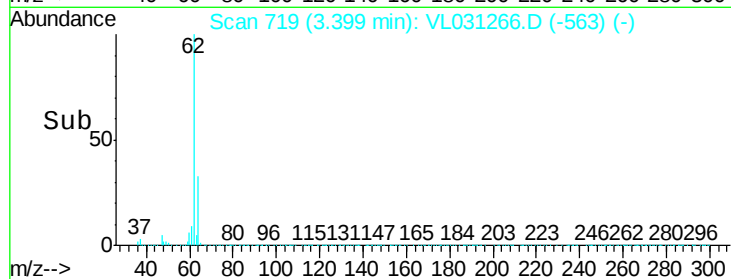
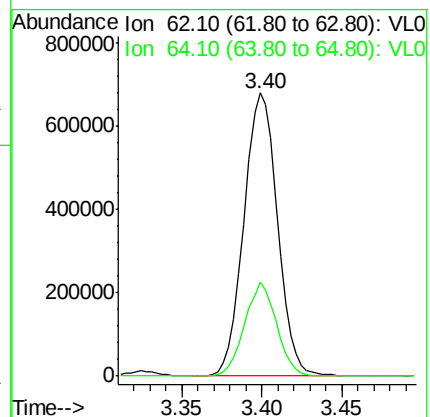
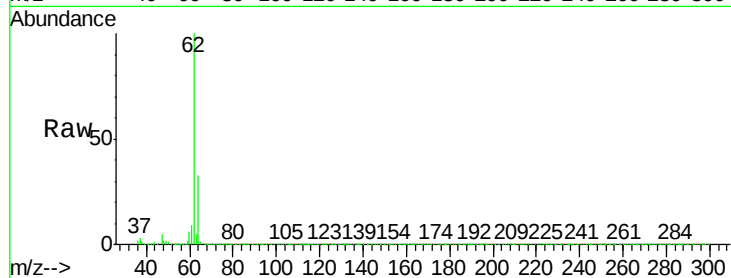
64 33.0 25.9 38.9

Manual Integrations

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#6

Bromomethane

Concen: 10.04 ppbv

RT: 3.63 min Scan# 790

Delta R.T. 0.00 min

Lab File: VL031266.D

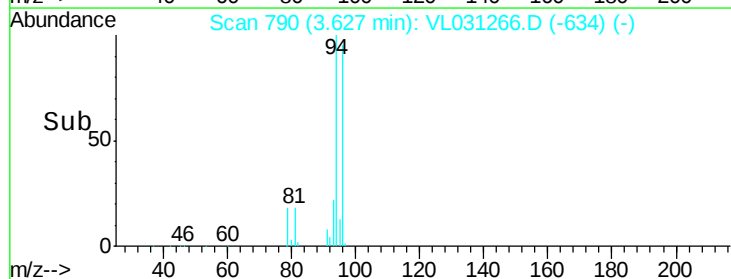
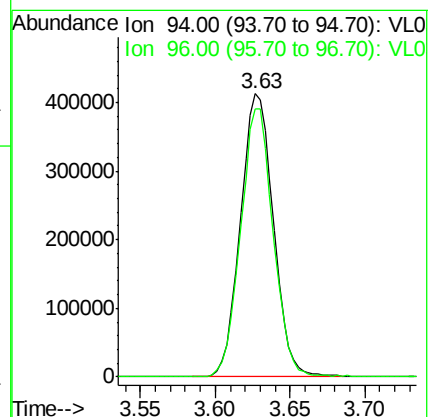
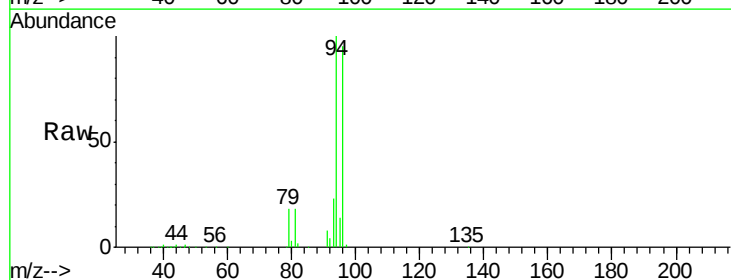
Acq: 20 Dec 2017 11:51

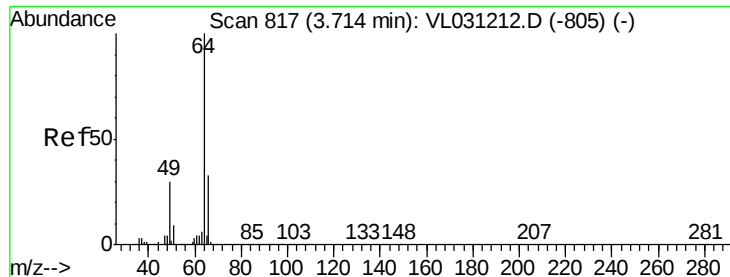
Tgt Ion: 94 Resp: 633008

Ion Ratio Lower Upper

94 100

96 94.7 74.4 111.6





#7

Chloroethane

Concen: 9.57 ppbv

RT: 3.72 min Scan# 818

Delta R.T. 0.00 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1220ABS01

Tot Ion: 64 Resp: 376754

Ion Ratio Lower Upper

64 100

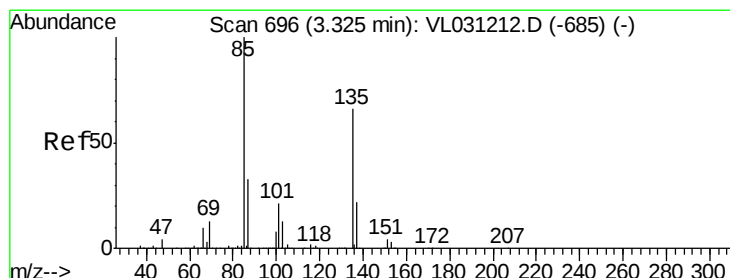
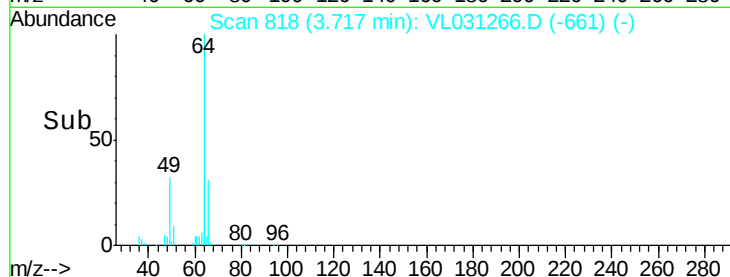
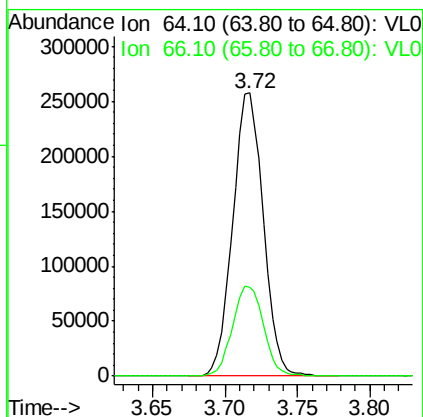
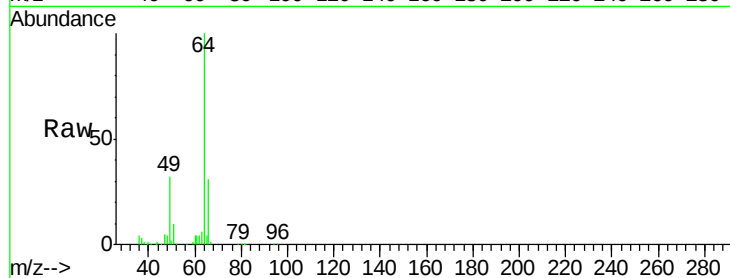
66 31.2 26.2 39.2

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 10.94 ppbv

RT: 3.32 min Scan# 696

Delta R.T. 0.00 min

Lab File: VL031266.D

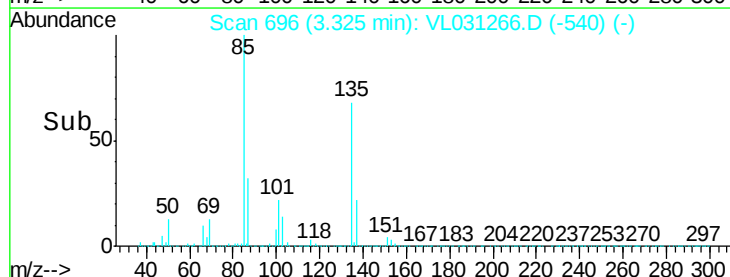
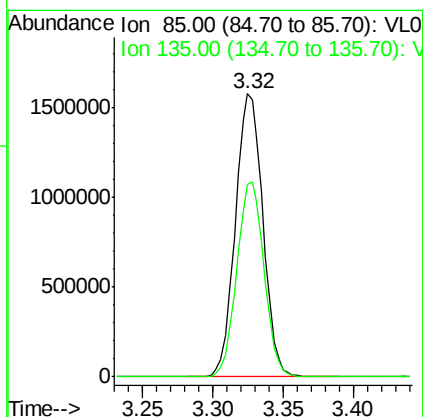
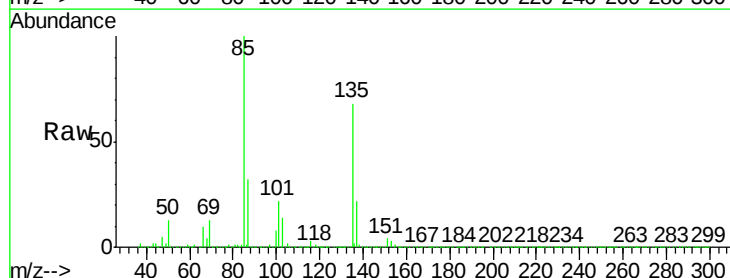
Acq: 20 Dec 2017 11:51

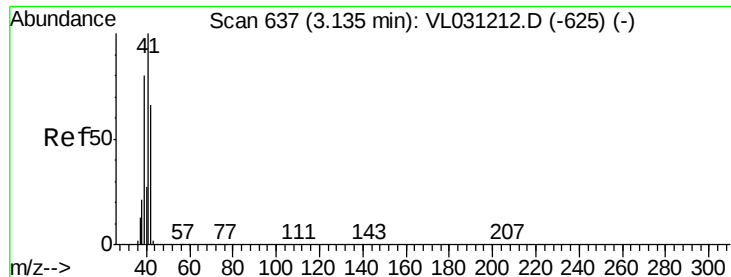
Tgt Ion: 85 Resp: 2147537

Ion Ratio Lower Upper

85 100

135 68.7 54.0 81.0





#9

Propene

Concen: 9.48 ppbv

RT: 3.14 min Scan# 638

Delta R.T. 0.00 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1220ABS01

Tot Ion: 41 Resp: 885285

Ion Ratio Lower Upper

41 100

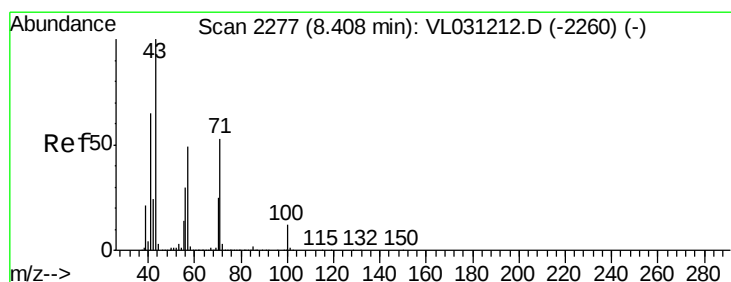
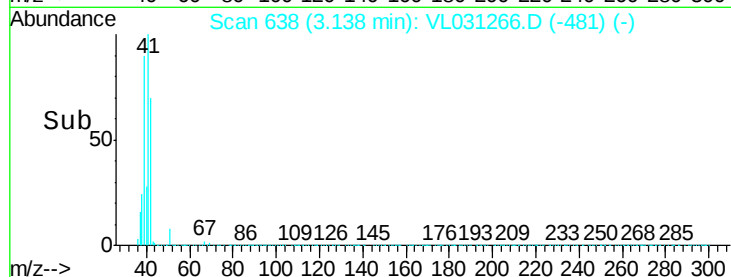
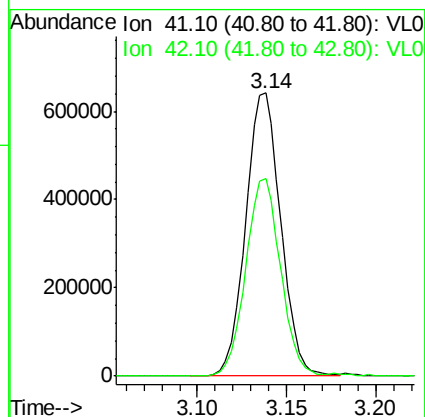
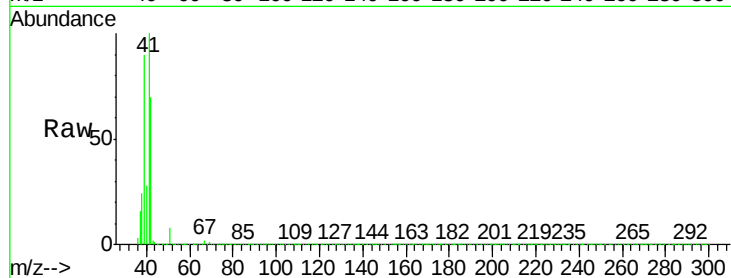
42 69.9 54.3 81.5

Manual Integrations

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#10

Heptane

Concen: 8.57 ppbv

RT: 8.41 min Scan# 2279

Delta R.T. 0.01 min

Lab File: VL031266.D

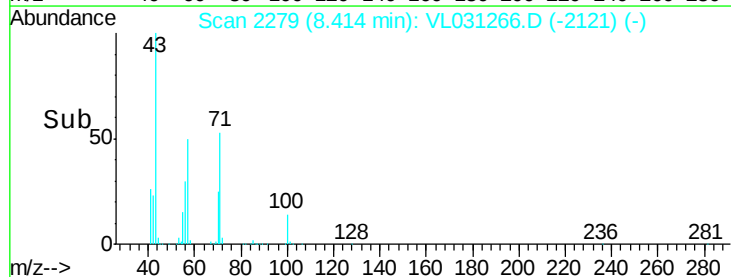
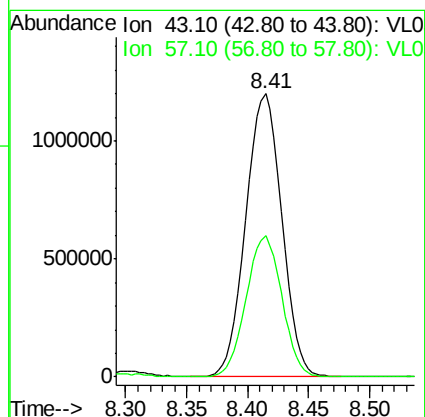
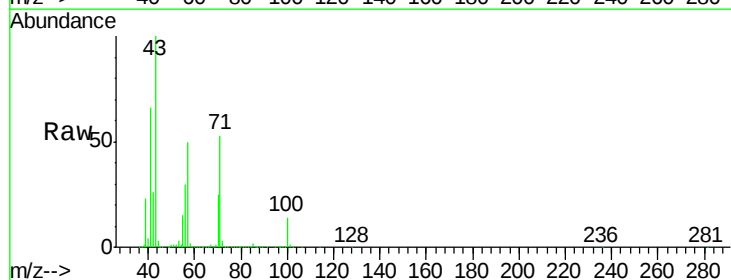
Acq: 20 Dec 2017 11:51

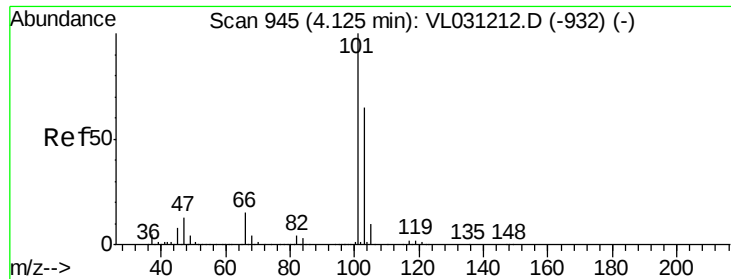
Tgt Ion: 43 Resp: 2436286

Ion Ratio Lower Upper

43 100

57 49.4 39.8 59.8





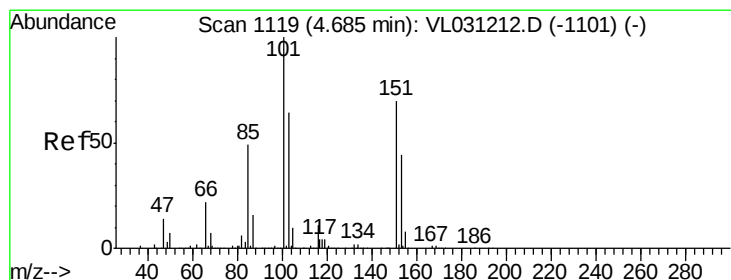
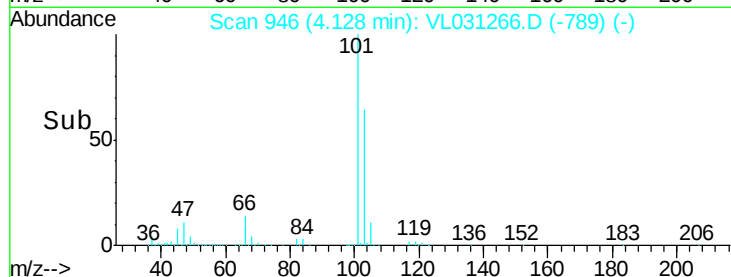
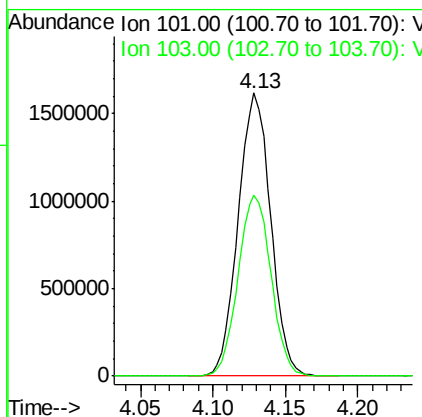
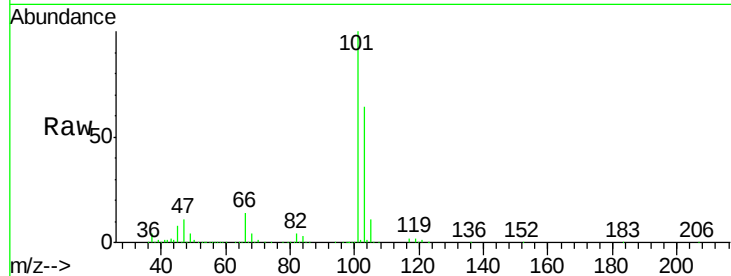
#11
 Trichlorofluoromethane
 Concen: 10.87 ppbv
 RT: 4.13 min Scan# 946
 Delta R.T. 0.00 min
 Lab File: VL031266.D
 Acq: 20 Dec 2017 11:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1220ABS01

Tot Ion:101 Resp: 2526167
 Ion Ratio Lower Upper
 101 100
 103 64.0 51.8 77.8

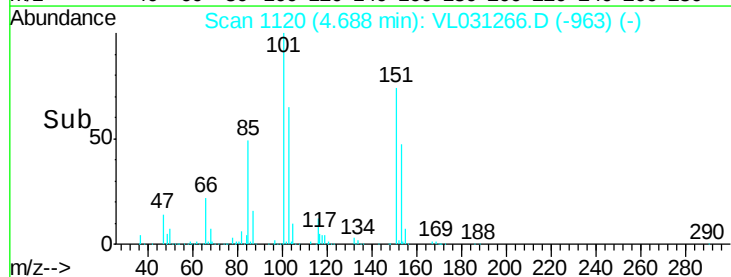
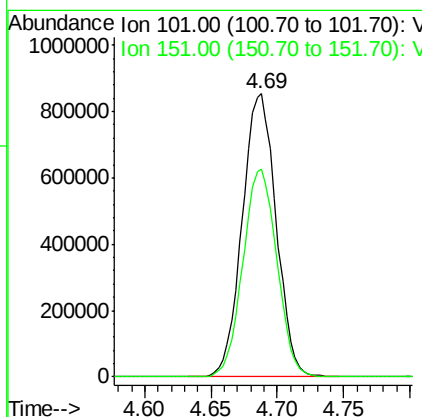
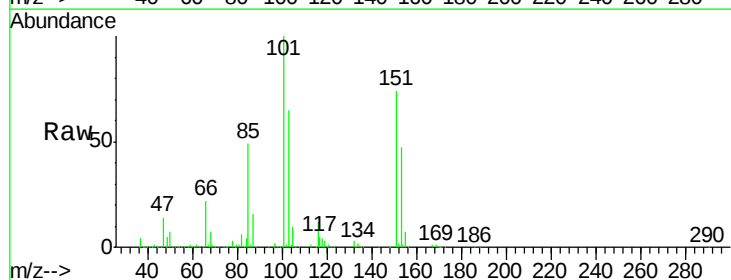
Manual Integrations
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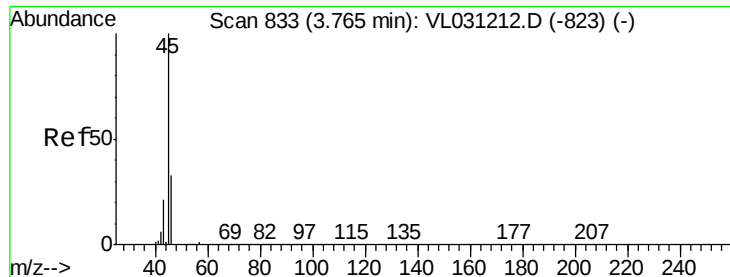
MM Dadoda
 12/22/2017 4:54:42 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.33 ppbv
 RT: 4.69 min Scan# 1120
 Delta R.T. 0.00 min
 Lab File: VL031266.D
 Acq: 20 Dec 2017 11:51

Tgt Ion:101 Resp: 1518789
 Ion Ratio Lower Upper
 101 100
 151 73.8 56.5 84.7





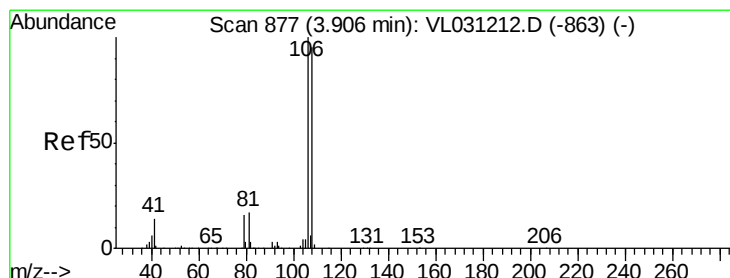
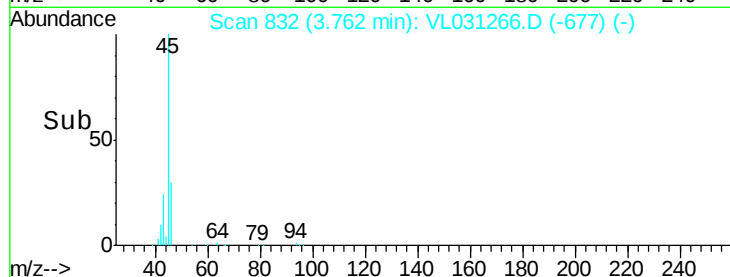
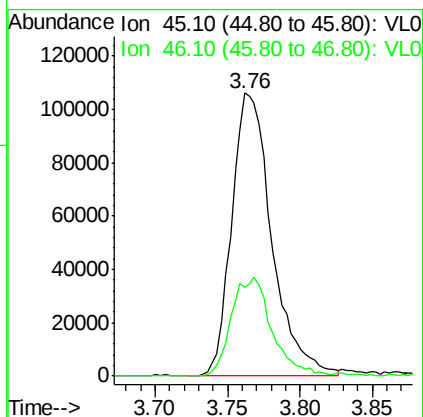
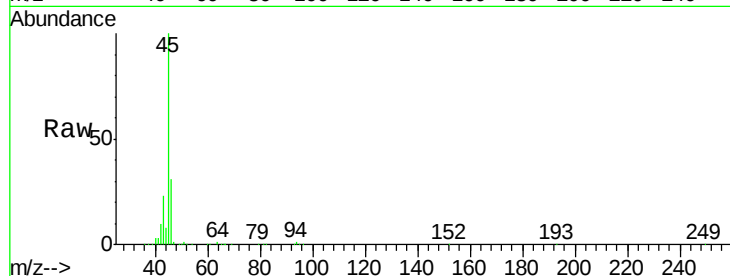
#13
Ethanol
Concen: 7.57 ppbv
RT: 3.76 min Scan# 832
Delta R.T. -0.00 min
Lab File: VL031266.D
Acq: 20 Dec 2017 11:51

Instrument :
MSVOA_L
ClientSampleId :
VL1220ABS01

Tot Ion	Ratio	Lower	Upper
45	100		
46	35.8	14.6	58.4

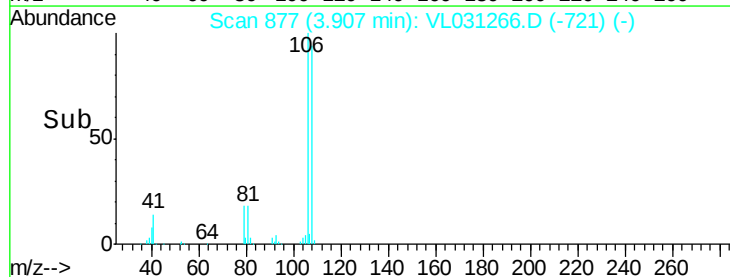
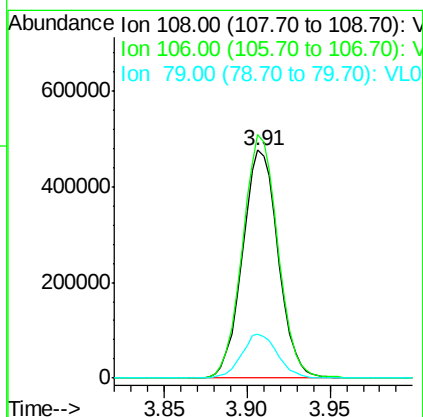
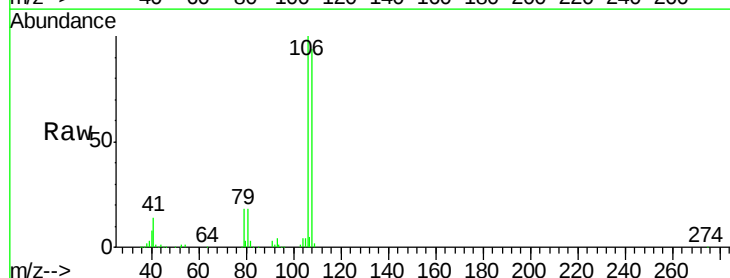
Manual Integrations
APPROVED

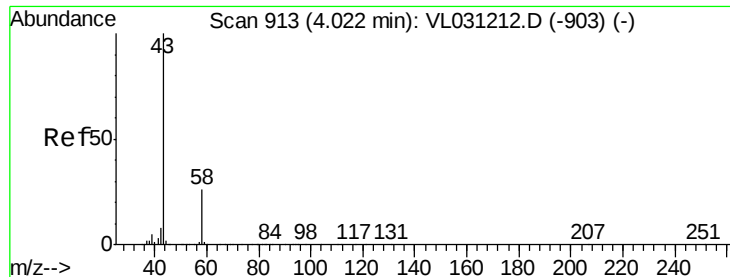
MMDadoda
12/22/2017 4:54:42 PM



#14
Bromoethene
Concen: 10.17 ppbv
RT: 3.91 min Scan# 877
Delta R.T. 0.00 min
Lab File: VL031266.D
Acq: 20 Dec 2017 11:51

Tgt Ion	Ratio	Lower	Upper
108	100		
106	106.4	86.5	129.7
79	19.5	14.2	21.4





#15

Acetone

Concen: 9.04 ppbv

RT: 4.02 min Scan# 913

Delta R.T. 0.00 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

Instrument :

MSVOA_L

ClientSampled :

VL1220ABS01

Tot Ion: 43 Resp: 1997513

Ion Ratio Lower Upper

43 100

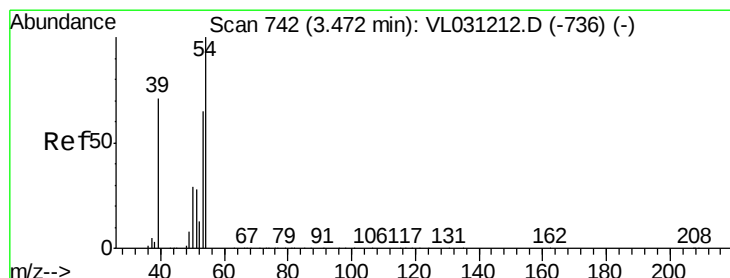
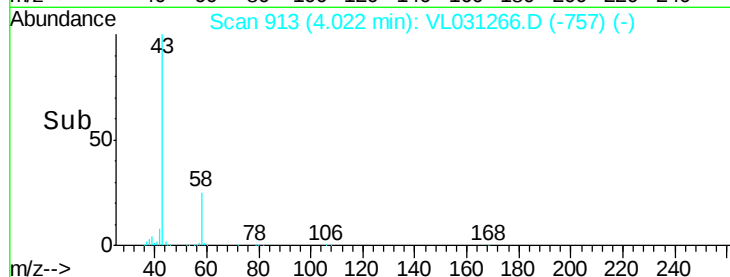
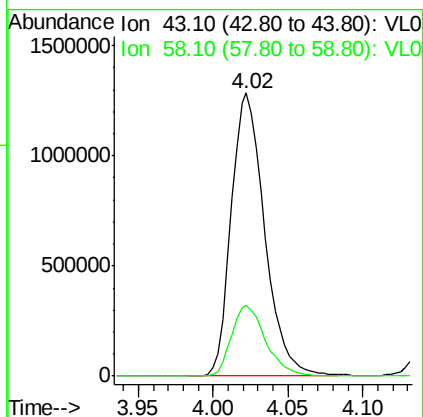
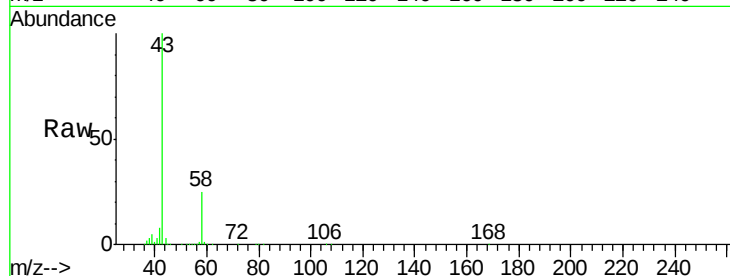
58 25.6 20.3 30.5

Manual Integrations

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#16

1,3-Butadiene

Concen: 9.01 ppbv

RT: 3.47 min Scan# 742

Delta R.T. 0.00 min

Lab File: VL031266.D

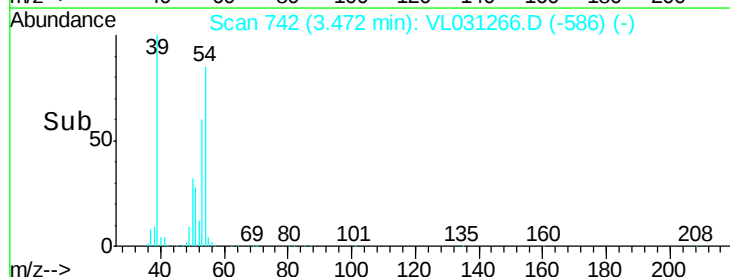
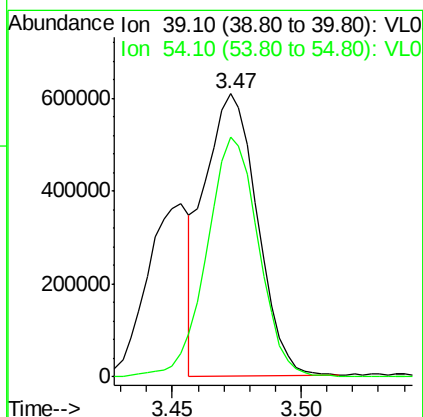
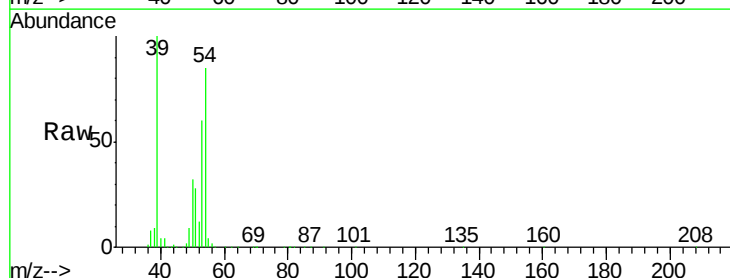
Acq: 20 Dec 2017 11:51

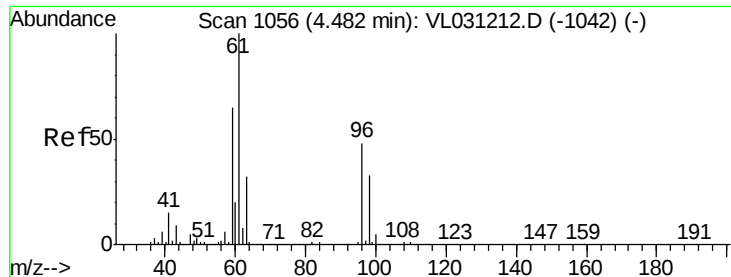
Tgt Ion: 39 Resp: 856305

Ion Ratio Lower Upper

39 100

54 84.6 66.4 99.6





#17

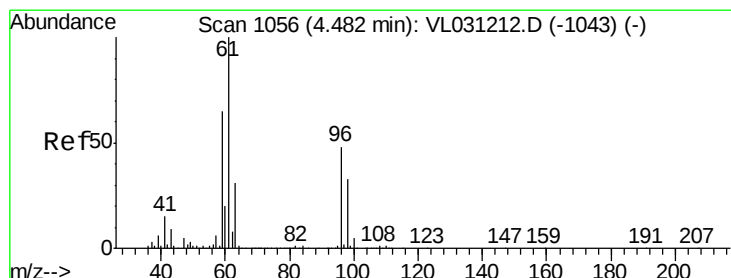
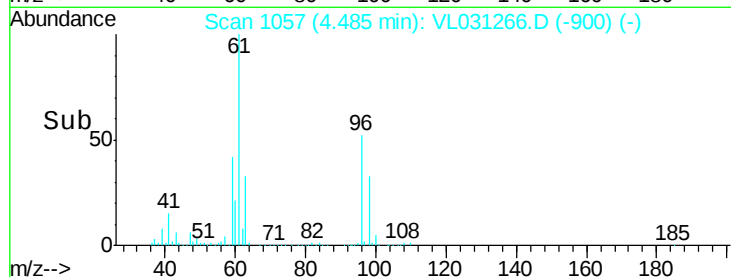
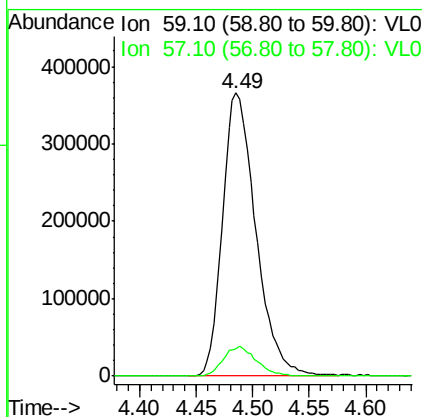
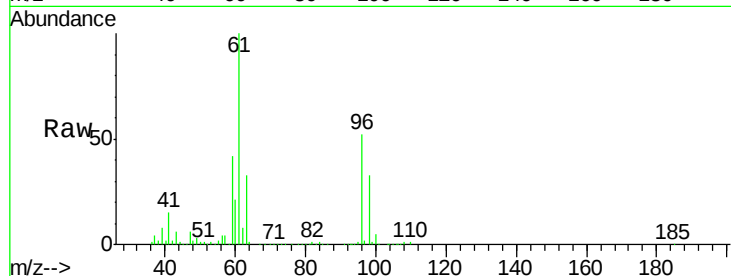
tert-Butyl alcohol
Concen: 6.06 ppbv
RT: 4.49 min Scan# 1057
Delta R.T. 0.00 min
Lab File: VL031266.D
Acq: 20 Dec 2017 11:51

Instrument :
MSVOA_L
ClientSampleId :
VL1220ABS01

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.5	8.2	12.2

Manual Integrations
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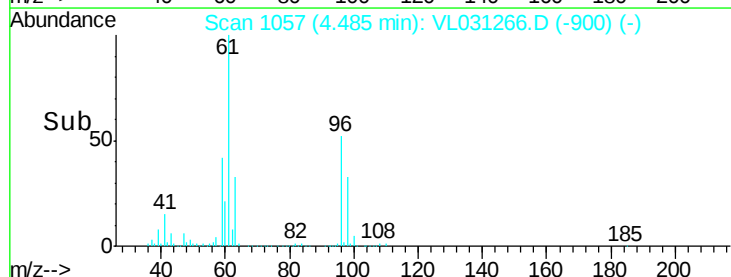
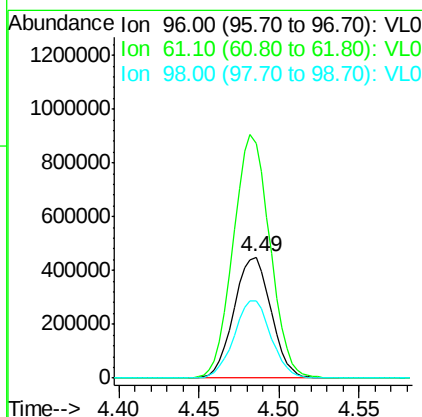
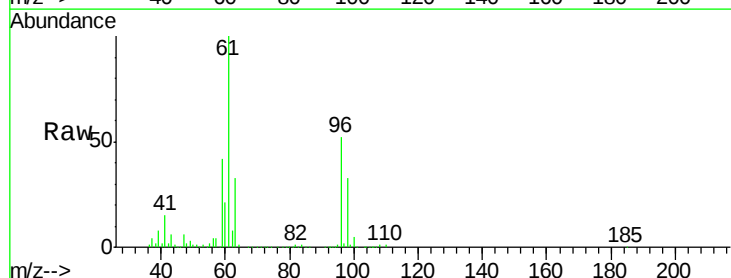
MMDadoda
12/22/2017 4:54:42 PM

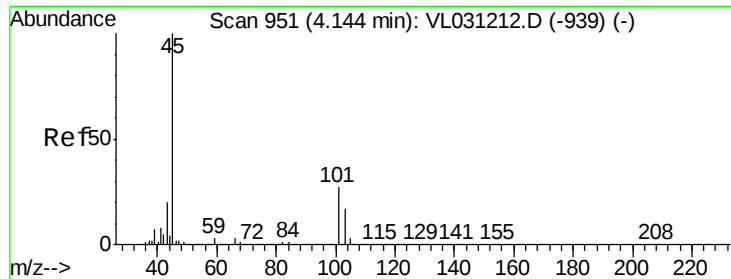


#18

1,1-Dichloroethene
Concen: 9.71 ppbv
RT: 4.49 min Scan# 1057
Delta R.T. 0.00 min
Lab File: VL031266.D
Acq: 20 Dec 2017 11:51

Tgt Ion	Ratio	Lower	Upper
96	100		
61	193.3	166.8	250.2
98	63.9	55.0	82.6





#19

Isopropyl Alcohol

Concen: 8.51 ppbv

RT: 4.15 min Scan# 952

Delta R.T. 0.00 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1220ABS01

Tot Ion: 45 Resp: 1189161

Ion Ratio Lower Upper

45 100

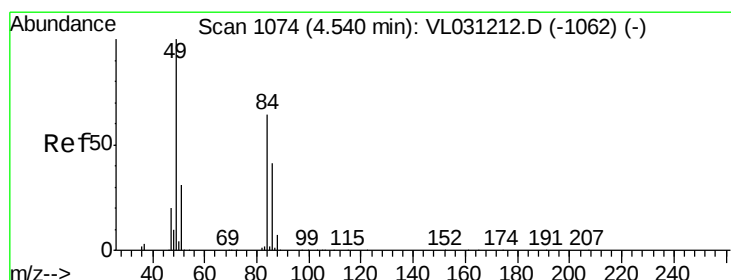
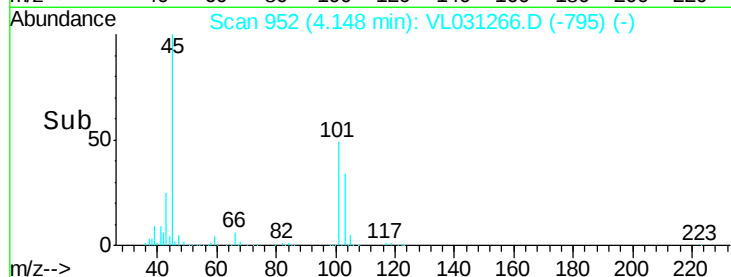
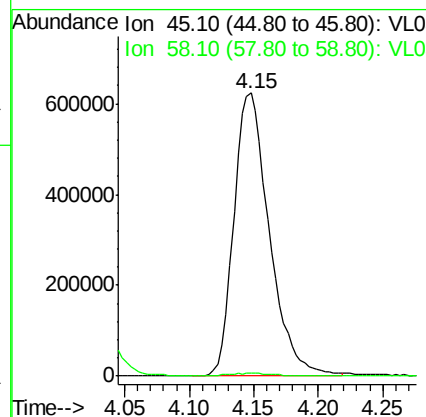
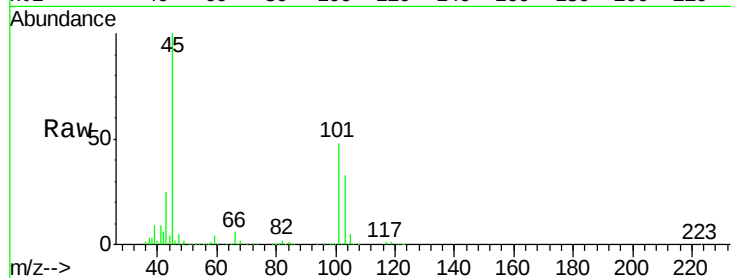
58 1.4 27.2 40.8#

Manual Integrations

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#20

Methylene Chloride

Concen: 8.86 ppbv

RT: 4.54 min Scan# 1074

Delta R.T. 0.00 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

Tgt Ion: 84 Resp: 647740

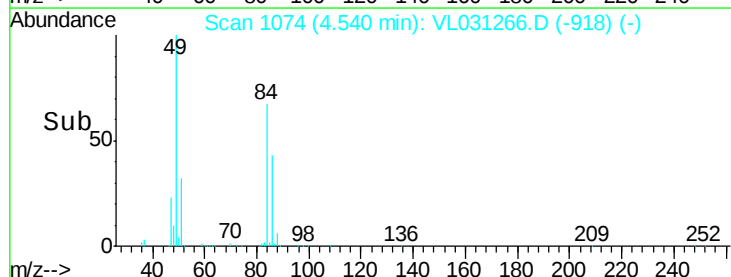
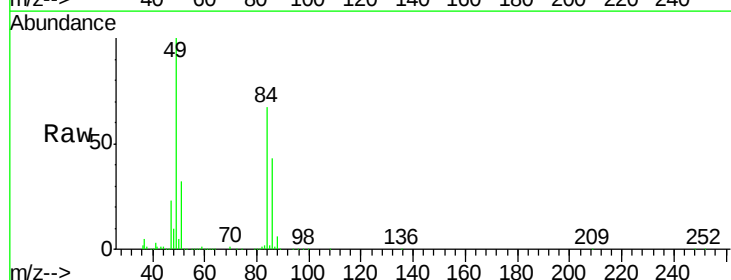
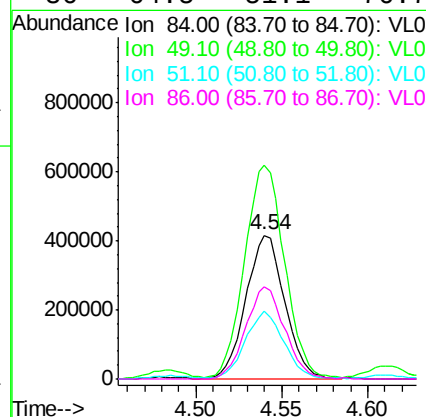
Ion Ratio Lower Upper

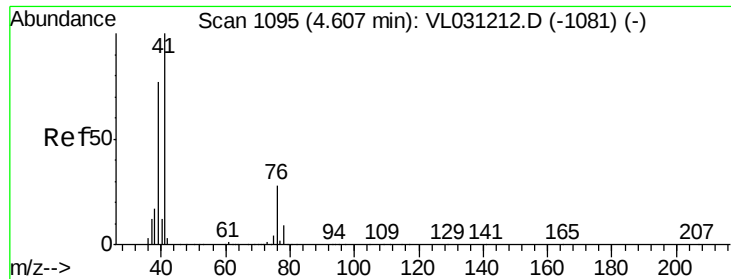
84 100

49 148.3 125.8 188.6

51 47.1 39.3 58.9

86 64.5 51.1 76.7





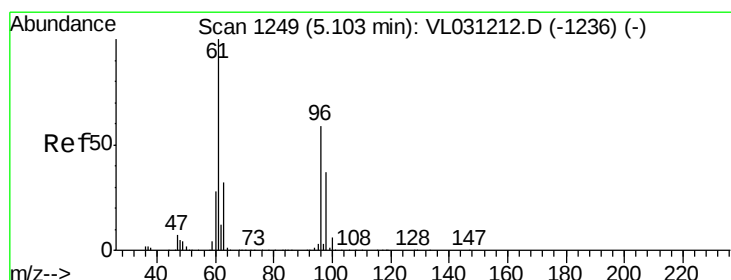
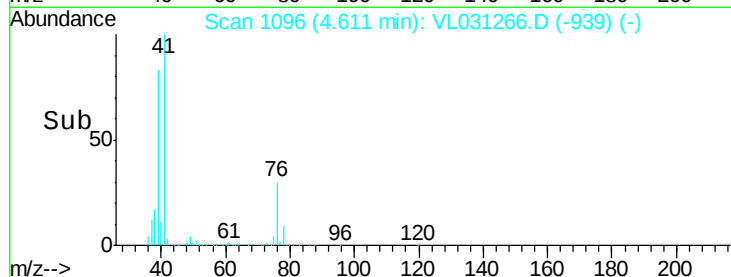
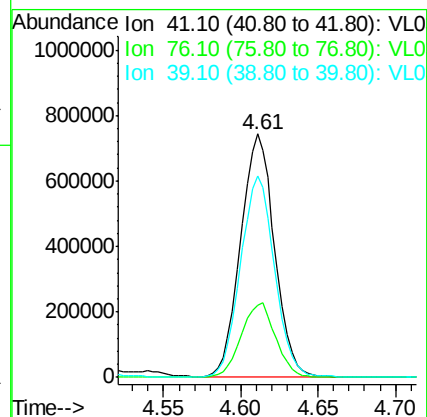
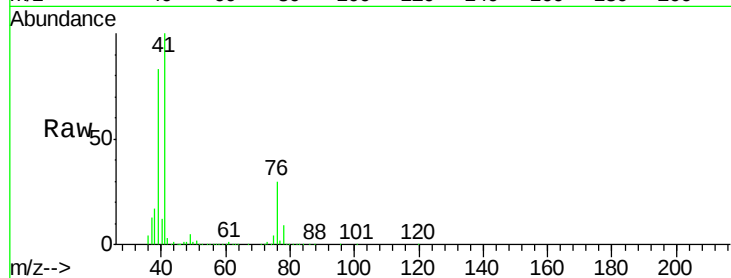
#21
Allvl Chloride
Concen: 8.64 ppbv
RT: 4.61 min Scan# 1096
Delta R.T. 0.00 min
Lab File: VL031266.D
Acq: 20 Dec 2017 11:51

Instrument :
MSVOA_L
ClientSampleId :
VL1220ABS01

Tot Ion	Ratio	Lower	Upper
41	100		
76	31.3	22.9	34.3
39	83.8	62.6	93.8

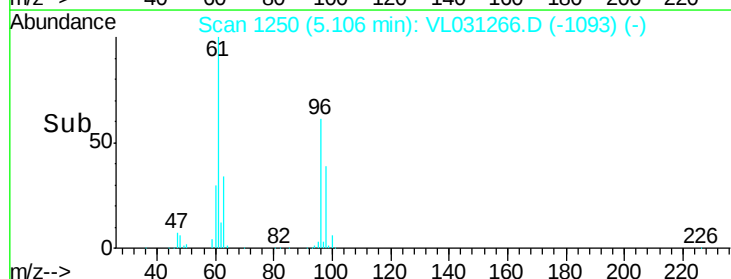
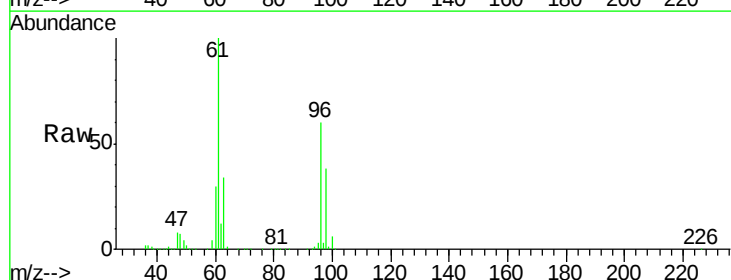
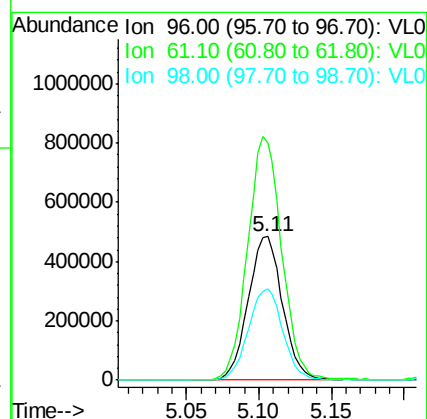
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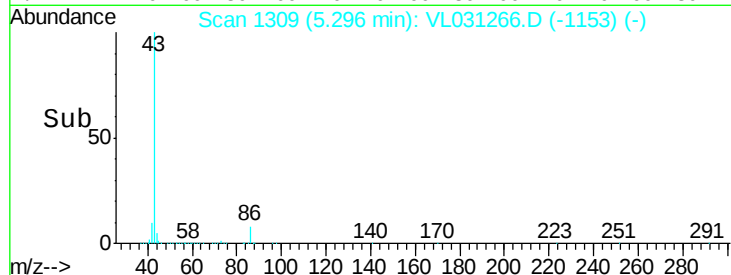
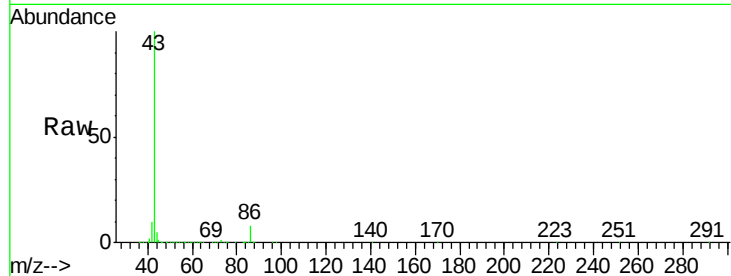
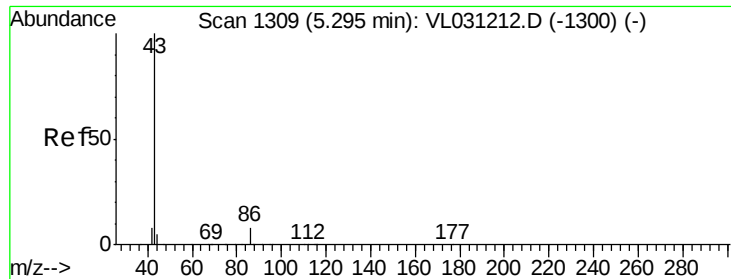
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 8.90 ppbv
RT: 5.11 min Scan# 1250
Delta R.T. 0.00 min
Lab File: VL031266.D
Acq: 20 Dec 2017 11:51

Tgt Ion	Ratio	Lower	Upper
96	100		
61	165.4	135.0	202.4
98	63.5	50.5	75.7





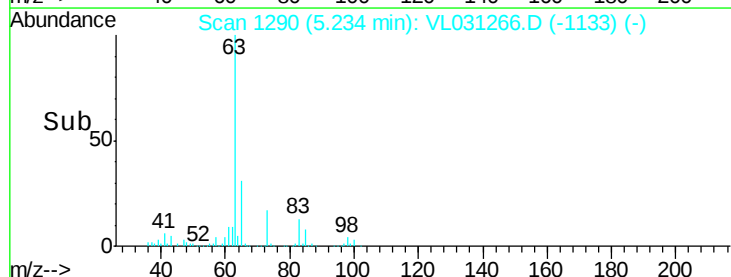
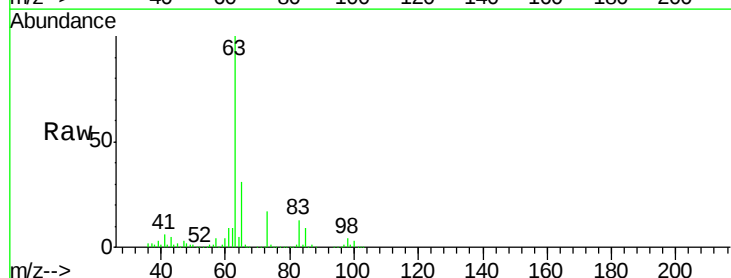
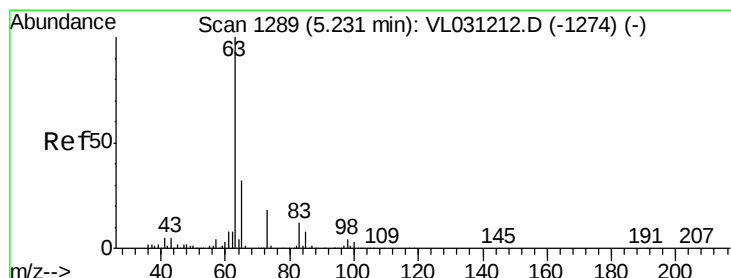
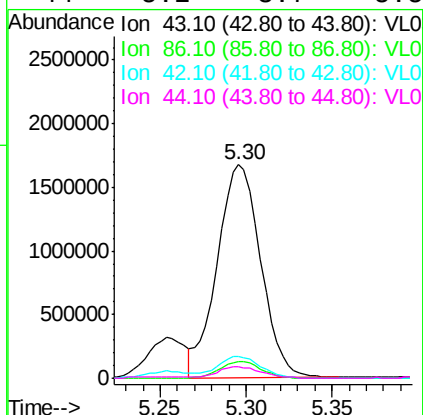
#23
 Vinyl Acetate
 Concen: 8.28 ppbv
 RT: 5.30 min Scan# 1309
 Delta R.T. 0.00 min
 Lab File: VL031266.D
 Acq: 20 Dec 2017 11:51

Tot Ion	43	Resp	2948192
Ion	Ratio	Lower	Upper
43	100		
86	8.0	5.9	8.9
42	9.9	7.3	10.9
44	5.2	3.7	5.5

Instrument :
 MSVOA_L
 ClientSampleID :
 VL1220ABS01

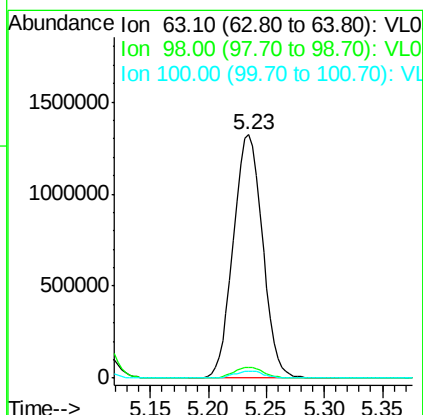
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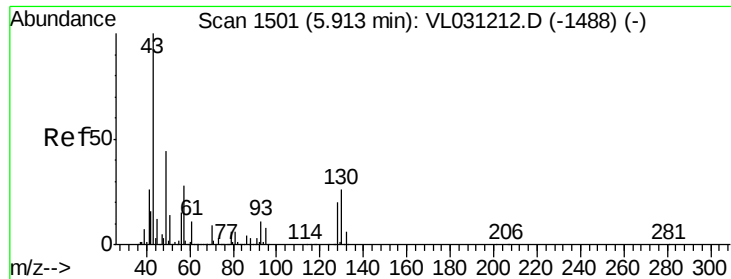
MMDadoda
 12/22/2017 4:54:42 PM



#24
 1,1-Dichloroethane
 Concen: 8.93 ppbv
 RT: 5.23 min Scan# 1290
 Delta R.T. 0.00 min
 Lab File: VL031266.D
 Acq: 20 Dec 2017 11:51

Tgt Ion	63	Resp	2309520
Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.3	6.8
100	2.9	1.4	4.2





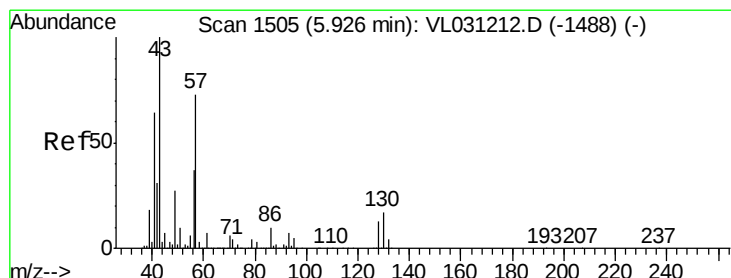
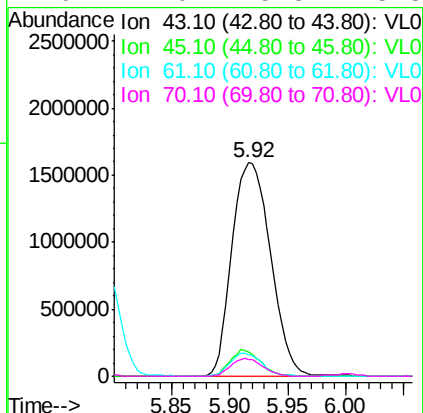
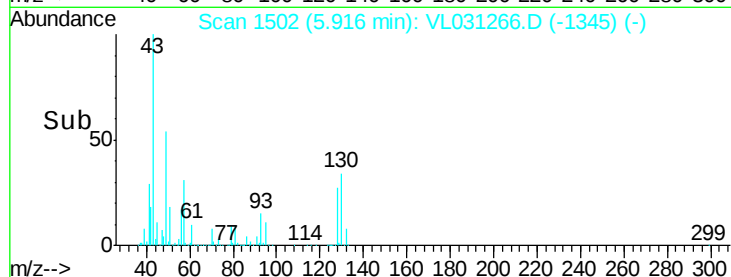
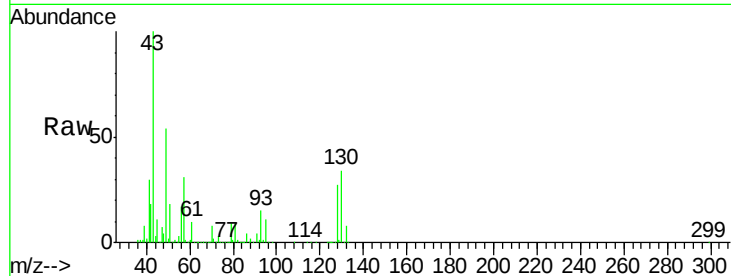
#25
Ethyl Acetate
Concen: 8.15 ppbv
RT: 5.92 min Scan# 1502
Delta R.T. 0.00 min
Lab File: VL031266.D
Acq: 20 Dec 2017 11:51

Instrument :
MSVOA_L
ClientSampleId :
VL1220ABS01

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.8	8.0	12.0
61	8.9	7.4	11.0
70	7.0	5.8	8.8

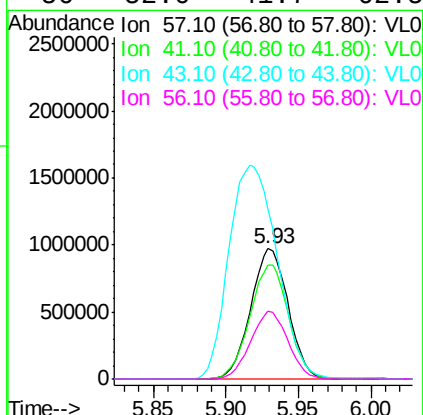
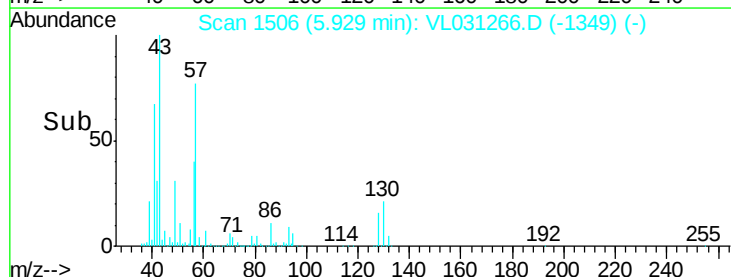
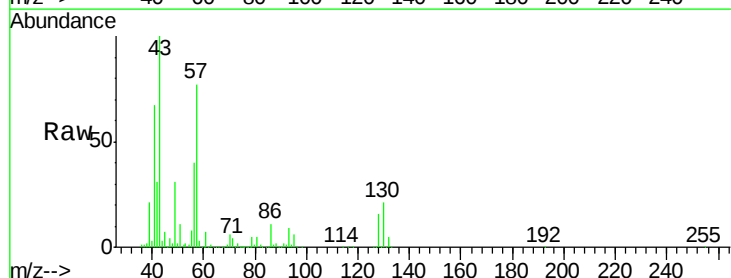
Manual Integrations
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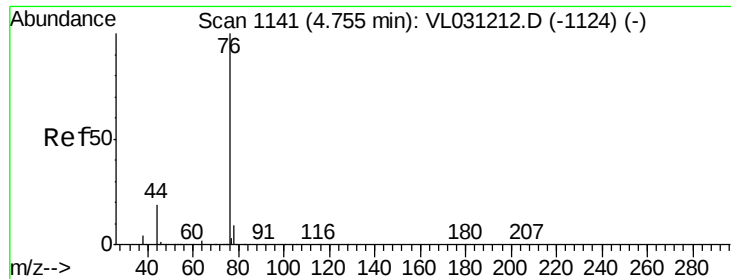
MMDadoda
12/22/2017 4:54:42 PM



#26
Hexane
Concen: 8.17 ppbv
RT: 5.93 min Scan# 1506
Delta R.T. 0.00 min
Lab File: VL031266.D
Acq: 20 Dec 2017 11:51

Tgt Ion	Ratio	Lower	Upper
57	100		
41	91.2	70.3	105.5
43	211.3	173.8	260.8
56	52.0	41.7	62.5





#27

Carbon Disulfide

Concen: 8.63 ppbv

RT: 4.76 min Scan# 1141

Delta R.T. 0.00 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1220ABS01

Tot Ion: 76 Resp: 1849991

Ion Ratio Lower Upper

76 100

44 19.7 16.0 24.0

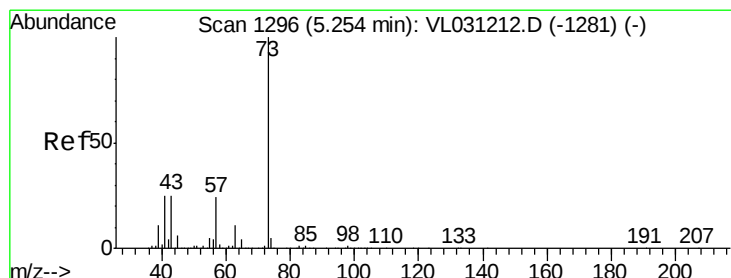
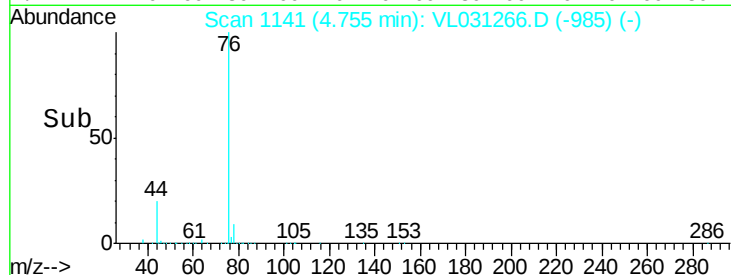
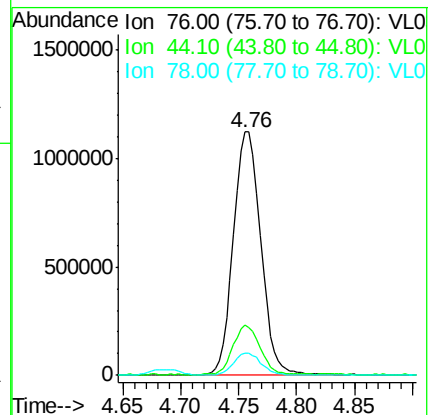
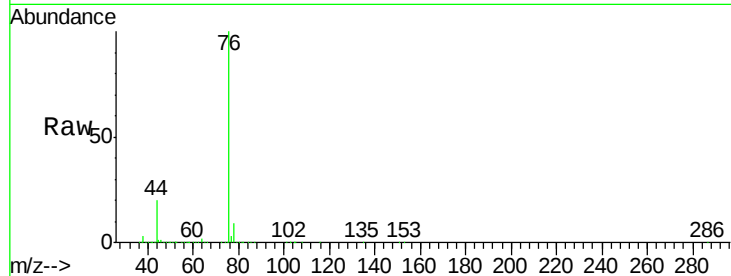
78 9.2 7.5 11.3

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#28

Methyl tert-Butyl Ether

Concen: 7.73 ppbv

RT: 5.25 min Scan# 1296

Delta R.T. 0.00 min

Lab File: VL031266.D

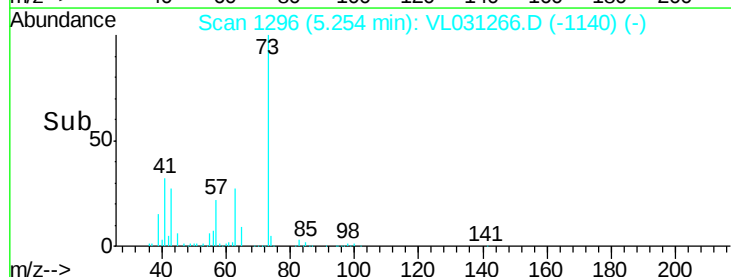
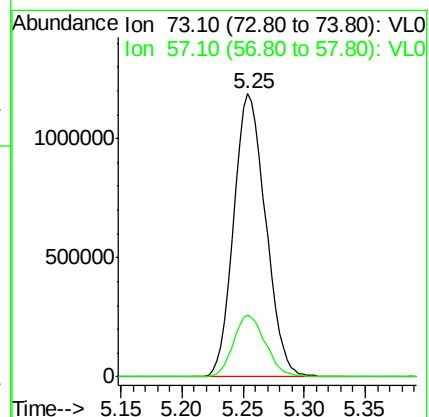
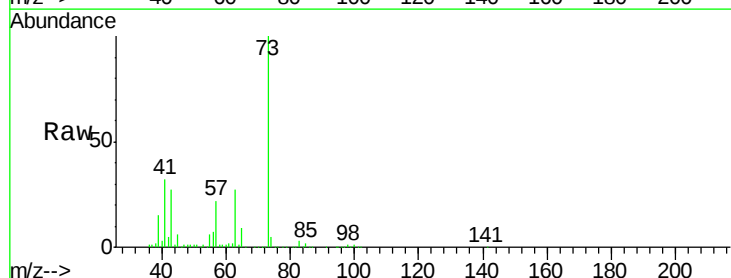
Acq: 20 Dec 2017 11:51

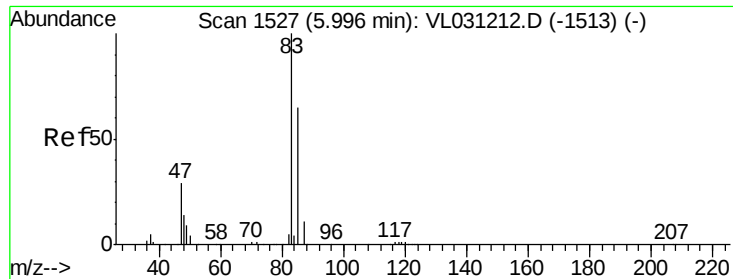
Tgt Ion: 73 Resp: 2163933

Ion Ratio Lower Upper

73 100

57 22.1 18.5 27.7





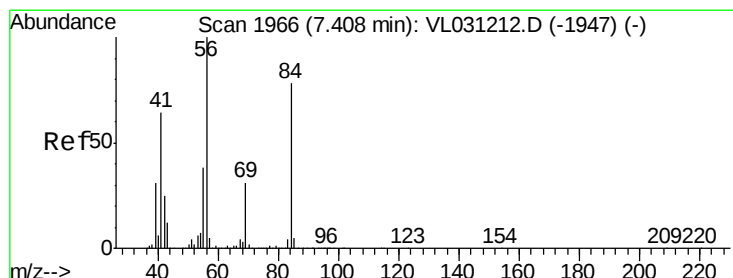
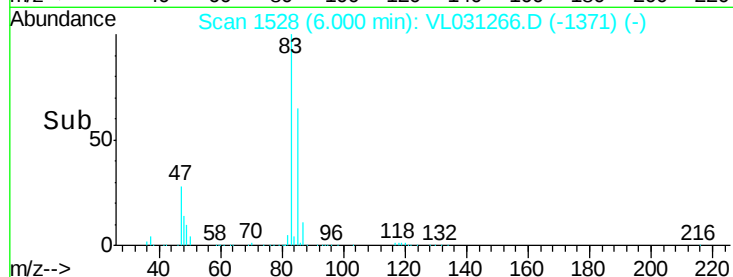
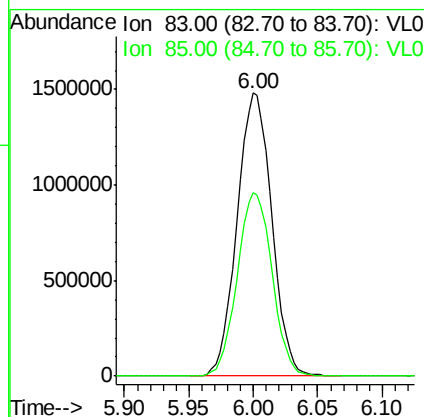
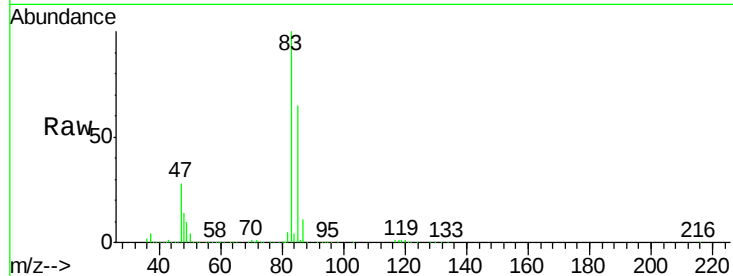
#29
Chloroform
Concen: 9.59 ppbv
RT: 6.00 min Scan# 1528
Delta R.T. 0.00 min
Lab File: VL031266.D
Acq: 20 Dec 2017 11:51

Instrument :
MSVOA_L
ClientSampleId :
VL1220ABS01

Tot Ion: 83 Resp: 2771255
Ion Ratio Lower Upper
83 100
85 64.7 51.8 77.6

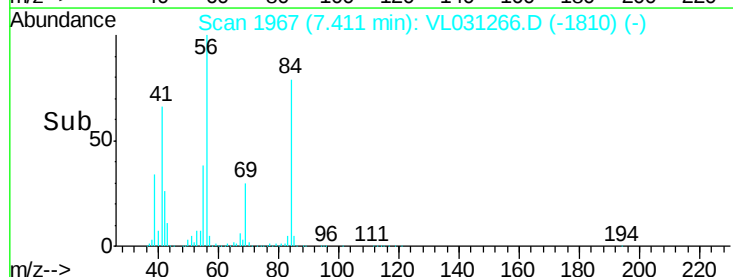
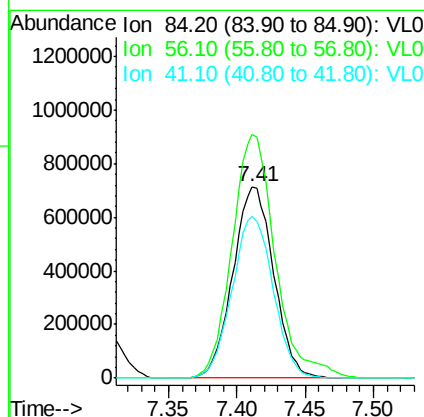
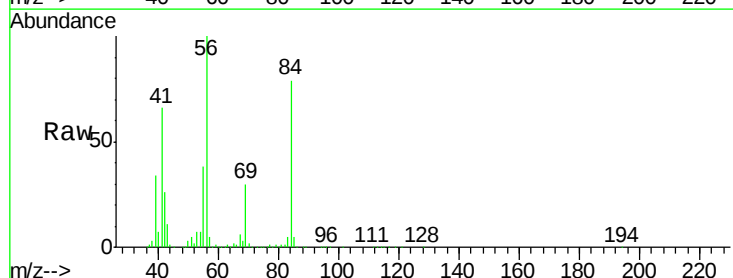
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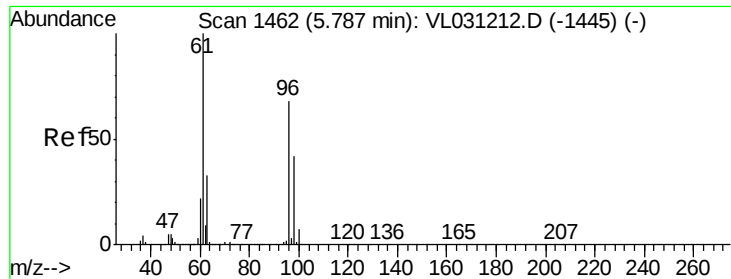
MMDadoda
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#30
Cyclohexane
Concen: 7.80 ppbv
RT: 7.41 min Scan# 1967
Delta R.T. 0.00 min
Lab File: VL031266.D
Acq: 20 Dec 2017 11:51

Tgt Ion: 84 Resp: 1470127
Ion Ratio Lower Upper
84 100
56 136.2 108.0 162.0
41 86.0 66.2 99.4





#31

cis-1,2-Dichloroethene

Concen: 8.79 ppbv

RT: 5.79 min Scan# 1463

Delta R.T. 0.00 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

Instrument :

MSVOA_L

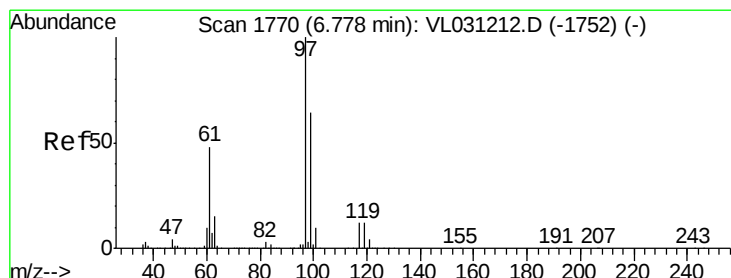
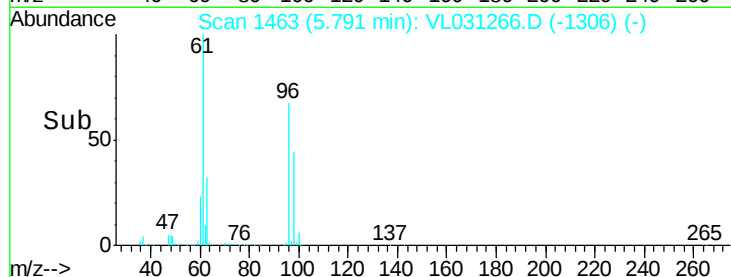
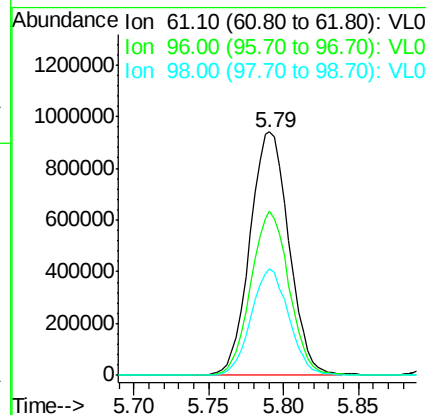
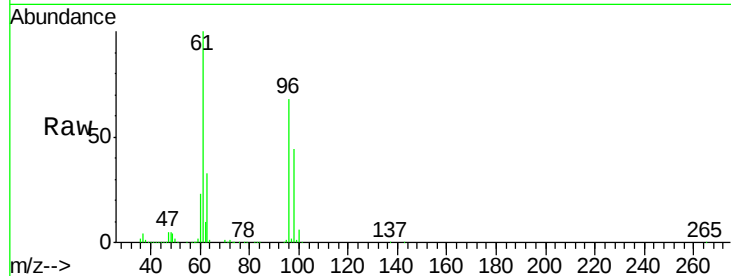
ClientSampleId :

VL1220ABS01

Tot Ion:	61	Resp:	1706711
Ion	Ratio	Lower	Upper
61	100		
96	67.5	54.4	81.6
98	43.7	33.6	50.4

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#32

1,1,1-Trichloroethane

Concen: 8.63 ppbv

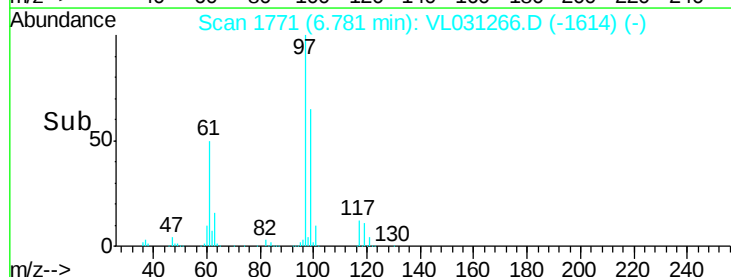
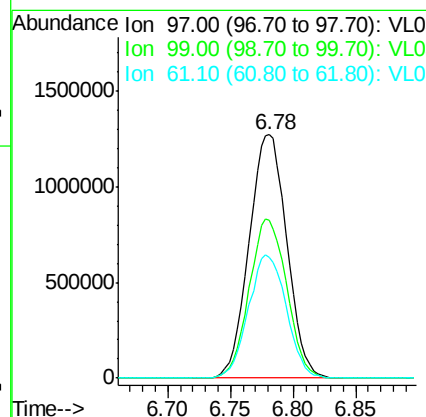
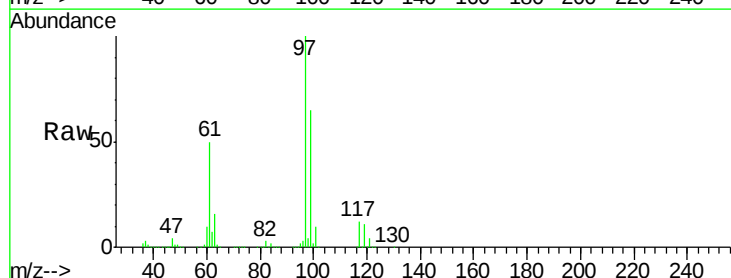
RT: 6.78 min Scan# 1771

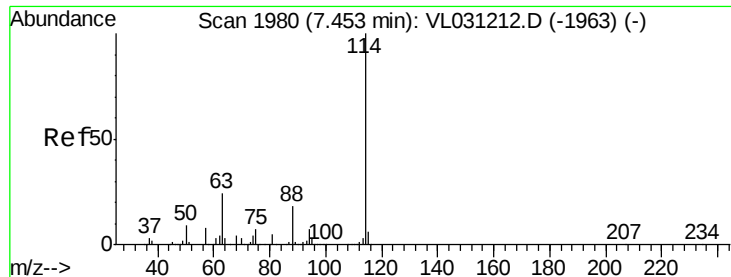
Delta R.T. 0.00 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

Tgt Ion:	97	Resp:	2667484
Ion	Ratio	Lower	Upper
97	100		
99	65.0	51.4	77.0
61	50.8	38.4	57.6





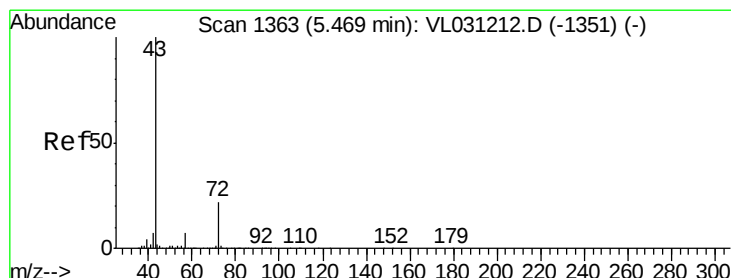
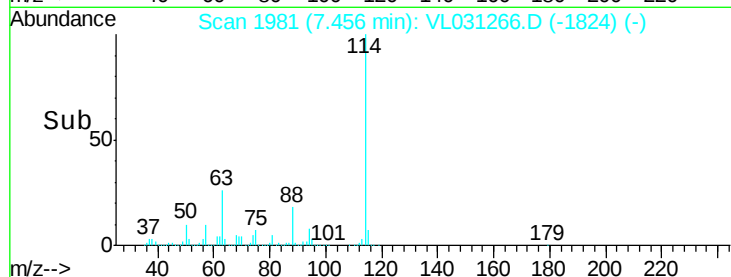
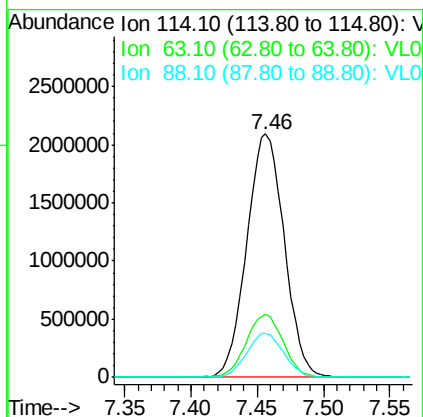
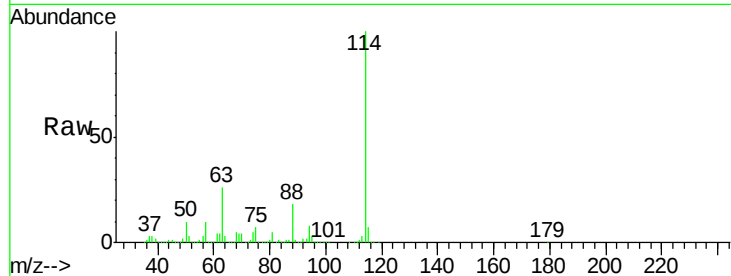
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.46 min Scan# 1981
 Delta R.T. 0.00 min
 Lab File: VL031266.D
 Acq: 20 Dec 2017 11:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1220ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.1	19.8	29.8
88	17.9	14.2	21.4

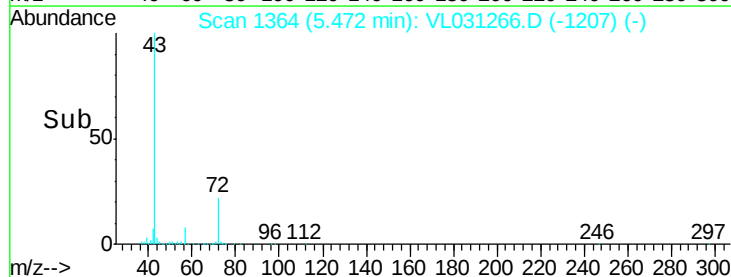
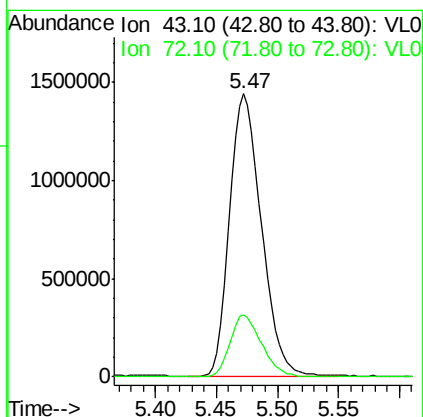
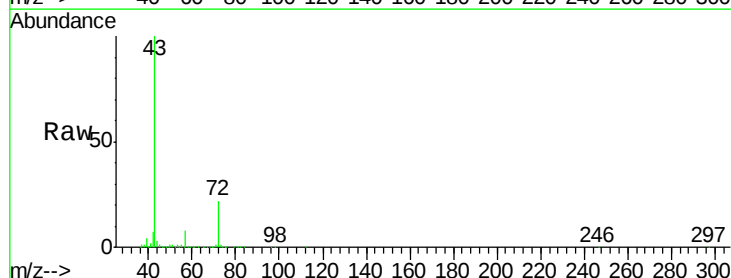
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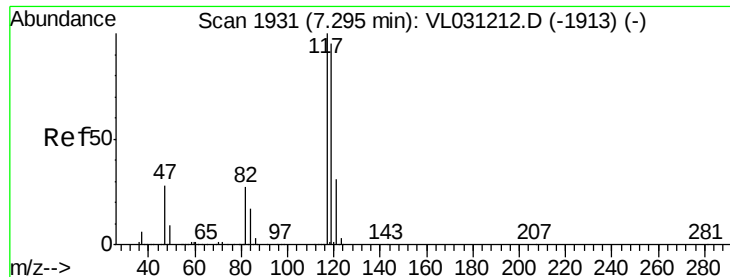
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#34
 2-Butanone
 Concen: 9.04 ppbv
 RT: 5.47 min Scan# 1364
 Delta R.T. 0.00 min
 Lab File: VL031266.D
 Acq: 20 Dec 2017 11:51

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.8	18.1	27.1





#35

Carbon Tetrachloride

Concen: 9.53 ppbv

RT: 7.30 min Scan# 1932

Delta R.T. 0.00 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1220ABS01

Tot Ion:117 Resp: 2805762

Ion Ratio Lower Upper

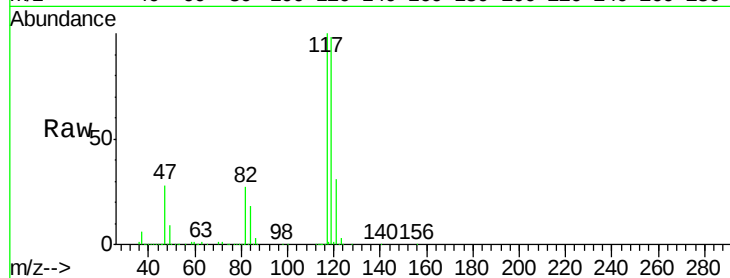
117 100

119 98.3 75.9 113.9

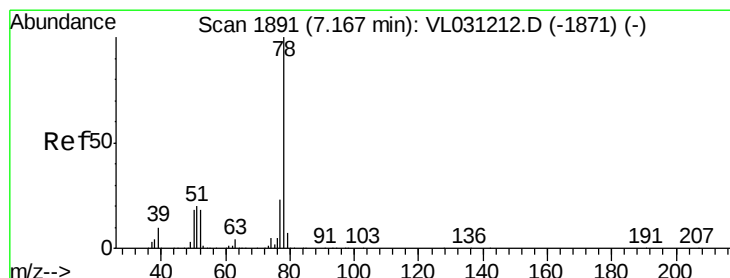
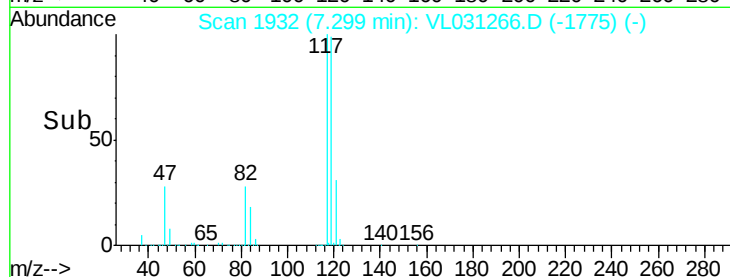
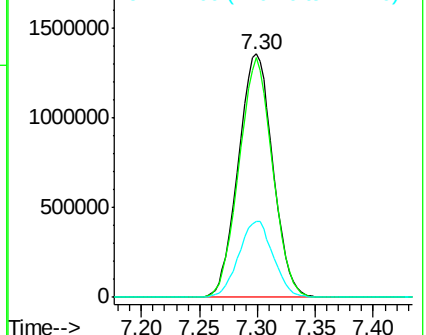
121 31.0 24.6 37.0

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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: 8.43 ppbv

RT: 7.17 min Scan# 1892

Delta R.T. 0.00 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

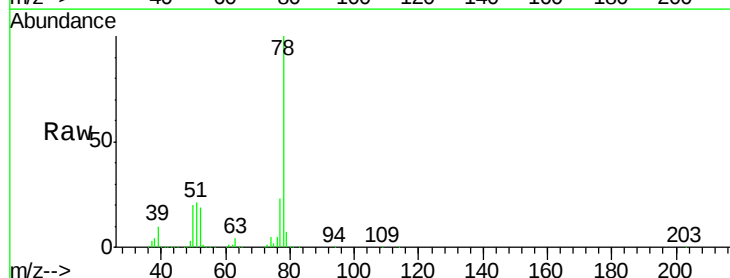
Tgt Ion: 78 Resp: 3670615

Ion Ratio Lower Upper

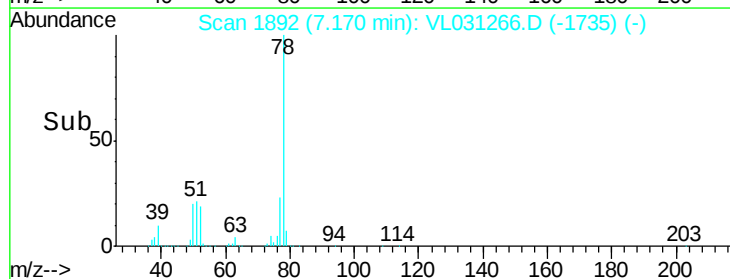
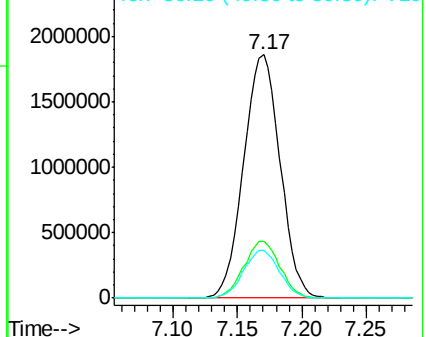
78 100

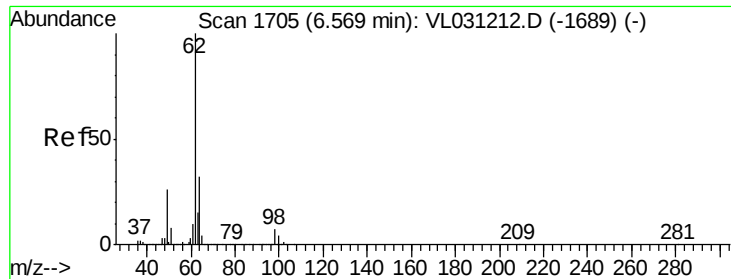
77 23.3 18.1 27.1

50 19.7 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





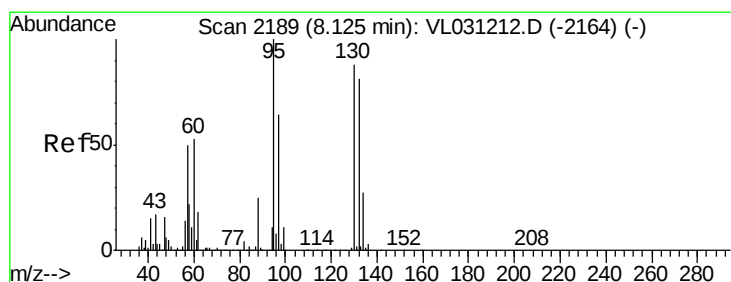
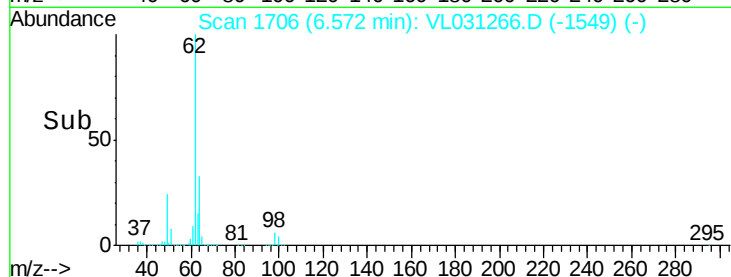
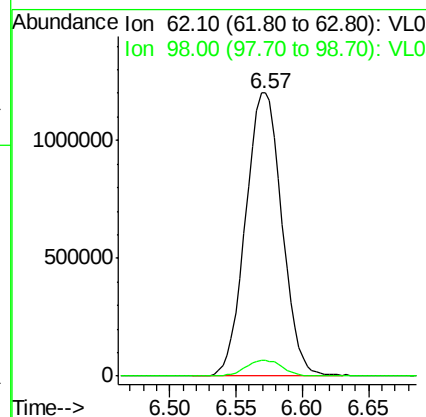
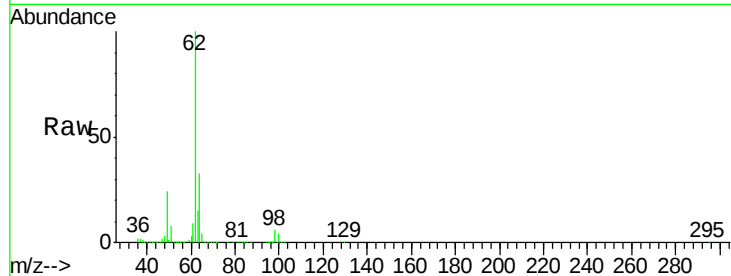
#37
 1,2-Dichloroethane
 Concen: 9.55 ppbv
 RT: 6.57 min Scan# 1706
 Delta R.T. 0.00 min
 Lab File: VL031266.D
 Acq: 20 Dec 2017 11:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1220ABS01

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.8	5.4	8.2

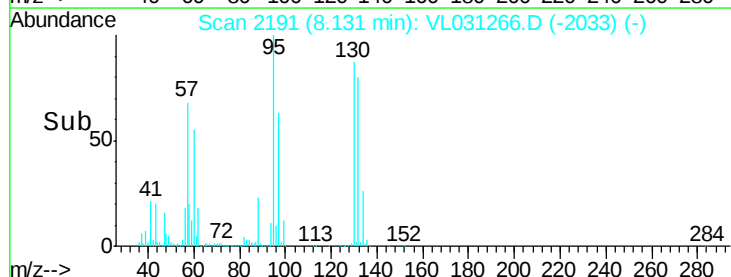
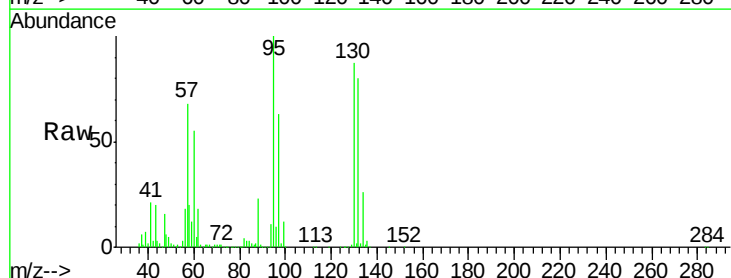
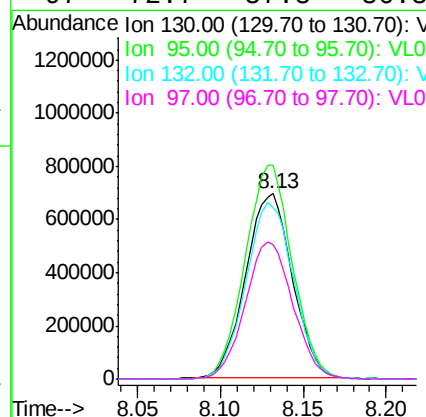
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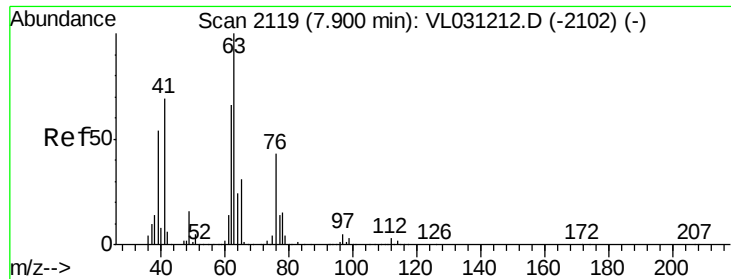
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#38
 Trichloroethene
 Concen: 8.03 ppbv
 RT: 8.13 min Scan# 2191
 Delta R.T. 0.01 min
 Lab File: VL031266.D
 Acq: 20 Dec 2017 11:51

Tgt Ion	Ratio	Lower	Upper
130	100		
95	115.5	90.6	135.8
132	92.7	73.5	110.3
97	72.7	57.8	86.8





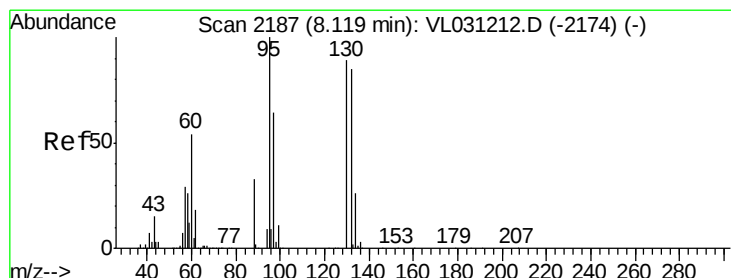
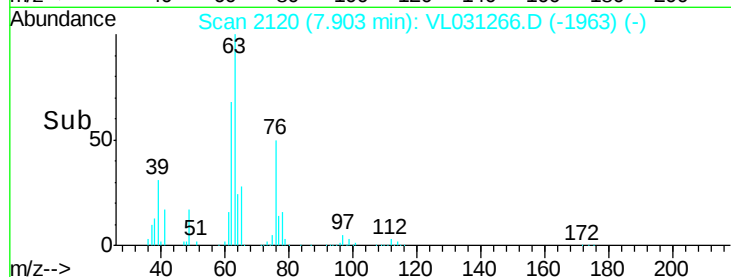
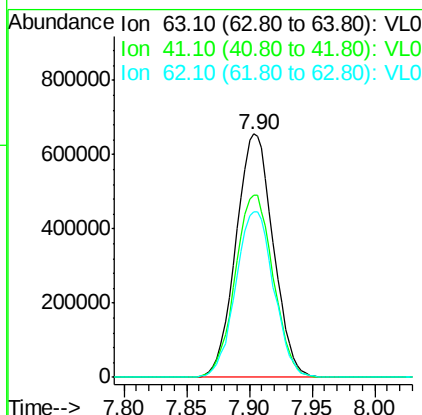
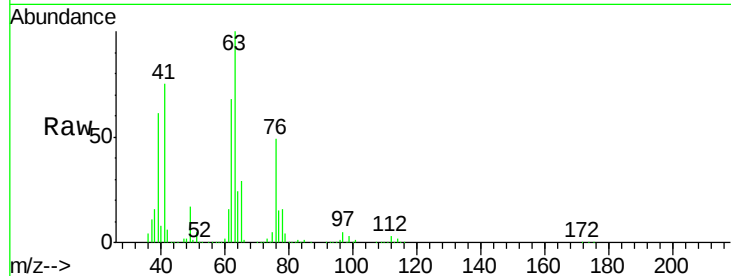
#39
 1,2-Dichloropropane
 Concen: 8.78 ppbv
 RT: 7.90 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VL031266.D
 Acq: 20 Dec 2017 11:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1220ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	74.7	55.2	82.8
62	67.8	53.0	79.4

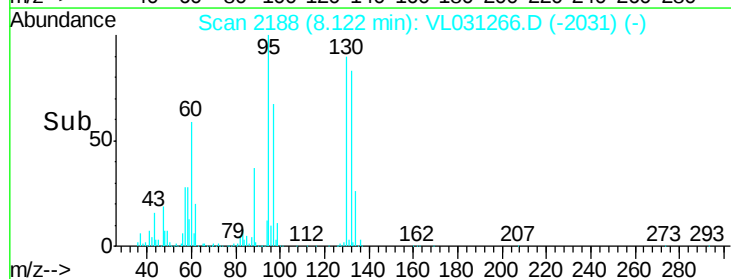
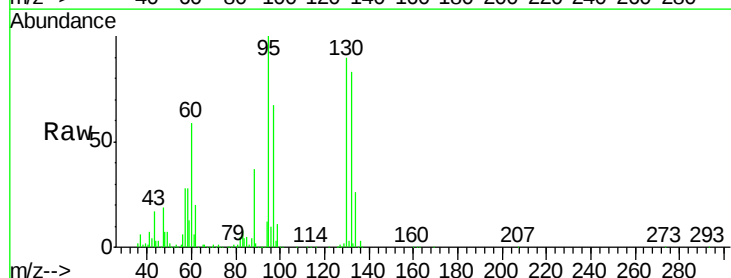
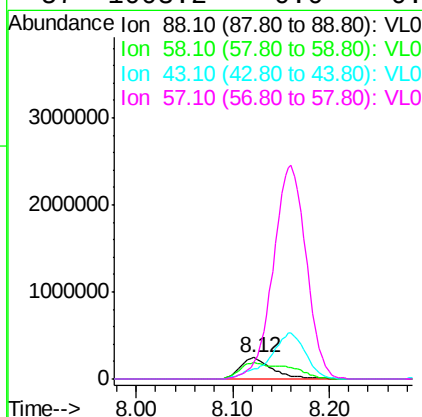
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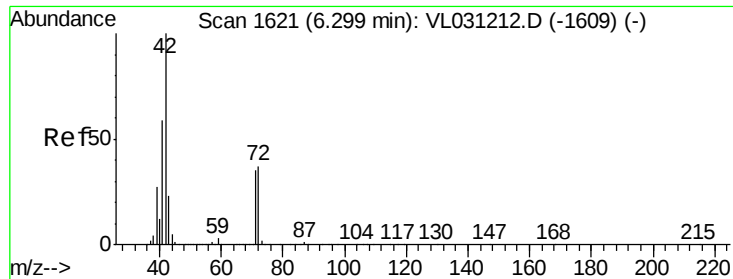
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#40
 1,4-Dioxane
 Concen: 10.45 ppbv
 RT: 8.12 min Scan# 2188
 Delta R.T. 0.00 min
 Lab File: VL031266.D
 Acq: 20 Dec 2017 11:51

Tgt Ion	Ratio	Lower	Upper
88	100		
58	119.9	104.3	156.5
43	235.3	0.0	0.0#
57	1003.2	0.0	0.0#





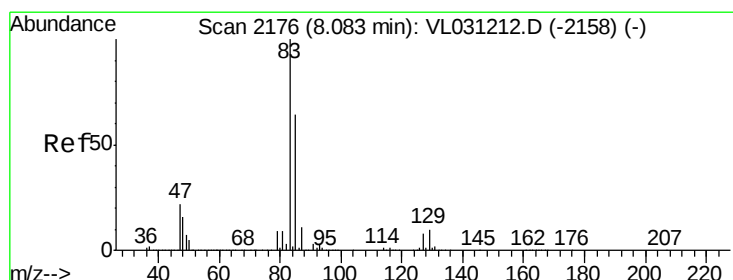
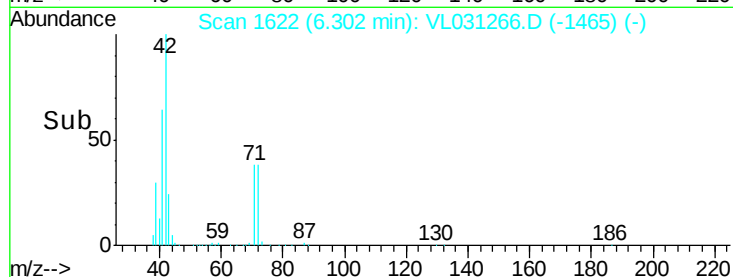
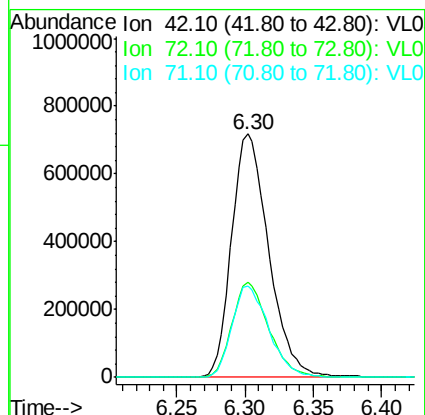
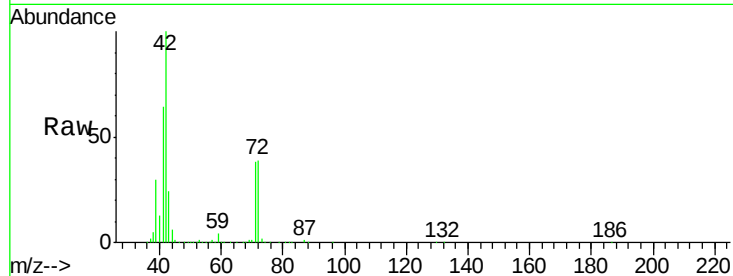
#41
Tetrahydrofuran
Concen: 8.31 ppbv
RT: 6.30 min Scan# 1622
Delta R.T. 0.00 min
Lab File: VL031266.D
Acq: 20 Dec 2017 11:51

Instrument :
MSVOA_L
ClientSampleId :
VL1220ABS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.8	30.2	45.4
71	37.5	29.0	43.6

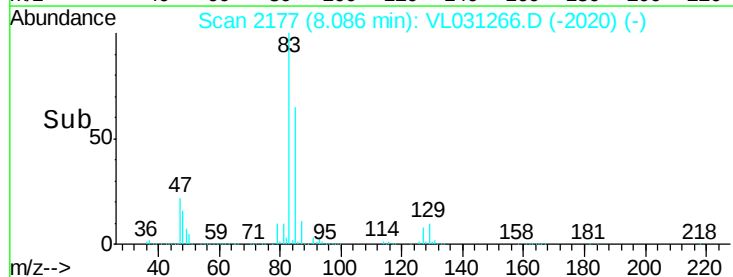
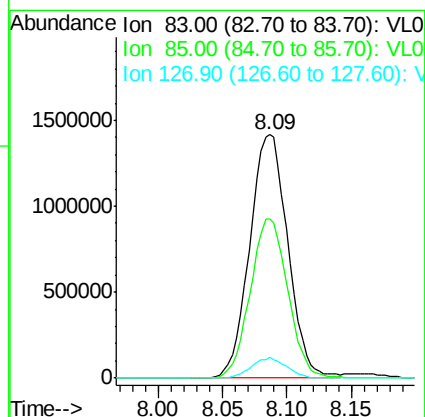
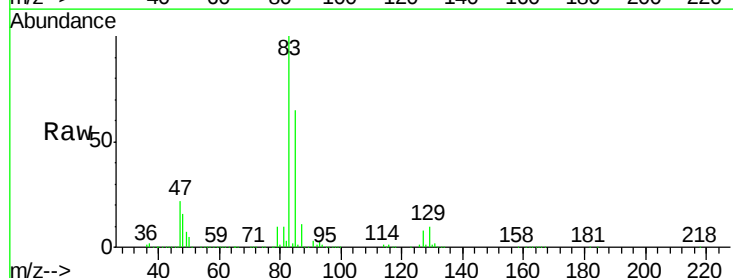
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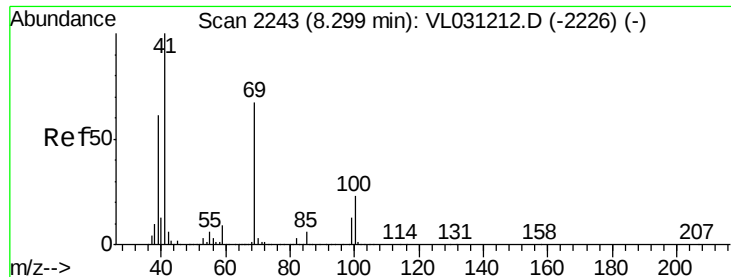
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#42
Bromodichloromethane
Concen: 10.32 ppbv
RT: 8.09 min Scan# 2177
Delta R.T. 0.00 min
Lab File: VL031266.D
Acq: 20 Dec 2017 11:51

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.3	51.5	77.3
127	8.4	6.5	9.7





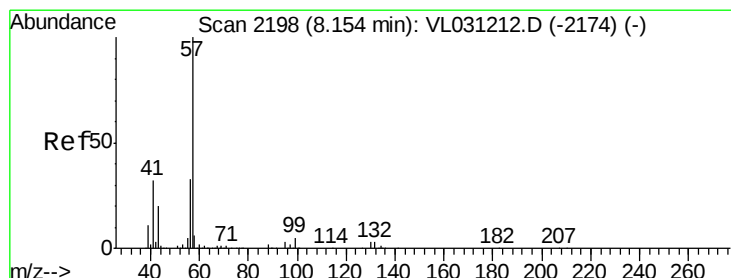
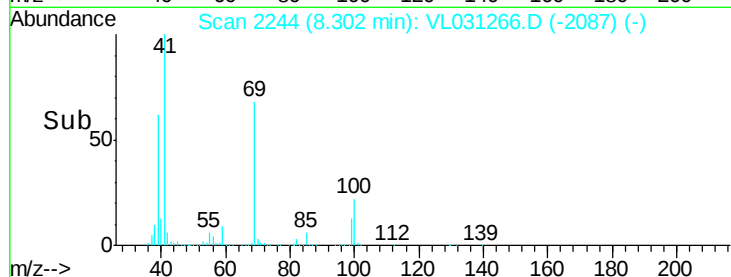
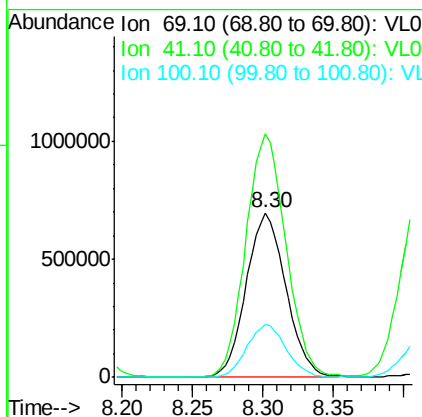
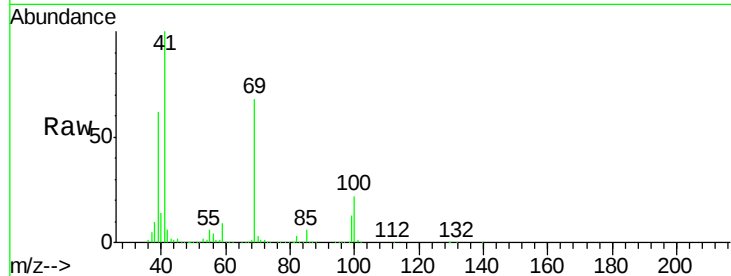
#43
Methvl Methacrilate
Concen: 9.41 ppbv
RT: 8.30 min Scan# 2244
Delta R.T. 0.00 min
Lab File: VL031266.D
Acq: 20 Dec 2017 11:51

Instrument :
MSVOA_L
ClientSampleId :
VL1220ABS01

Tot Ion: 69 Resp: 1372375
Ion Ratio Lower Upper
69 100
41 149.8 121.1 181.7
100 31.9 27.4 41.2

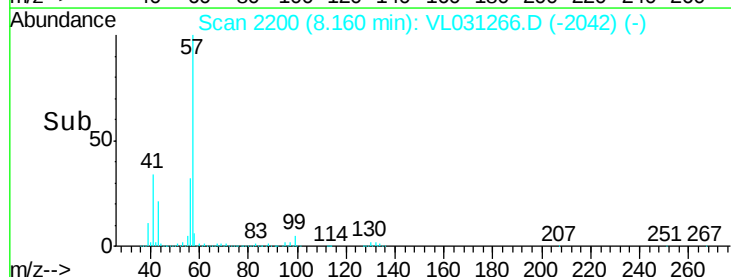
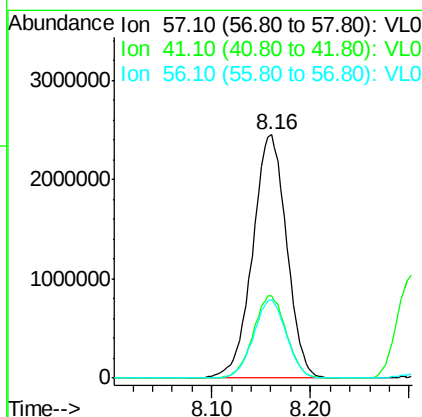
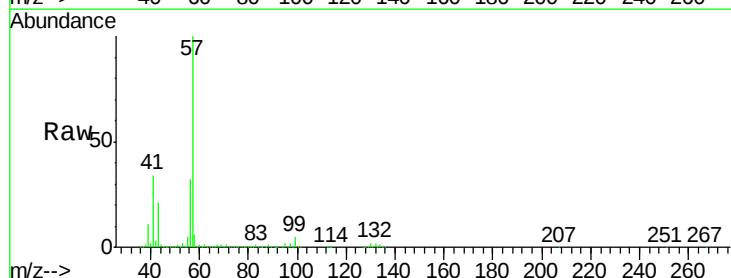
Manual Integrations
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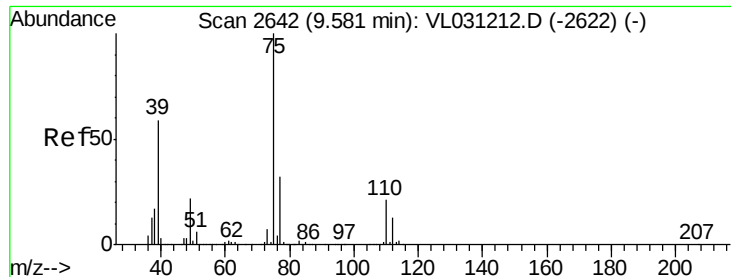
MMDadoda
12/22/2017 4:54:42 PM



#44
2,2,4-Trimethylpentane
Concen: 8.85 ppbv
RT: 8.16 min Scan# 2200
Delta R.T. 0.01 min
Lab File: VL031266.D
Acq: 20 Dec 2017 11:51

Tgt Ion: 57 Resp: 5821168
Ion Ratio Lower Upper
57 100
41 33.0 25.5 38.3
56 31.1 25.0 37.6





#45

t-1,3-Dichloropropene

Concen: 9.35 ppbv

RT: 9.59 min Scan# 2644

Delta R.T. 0.01 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

Tot Ion: 75 Resp: 1864806

Ion Ratio Lower Upper

75 100

77 31.9 25.4 38.2

Instrument :

MSVOA_L

ClientSampleId :

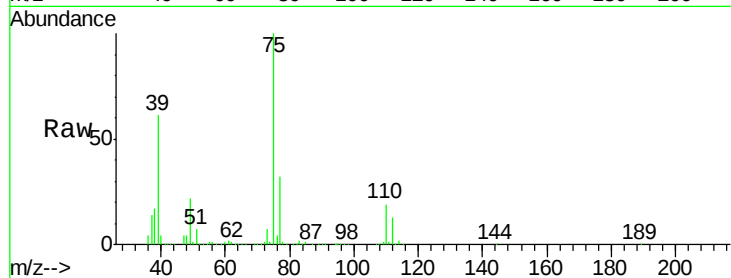
VL1220ABS01

Manual Integrations

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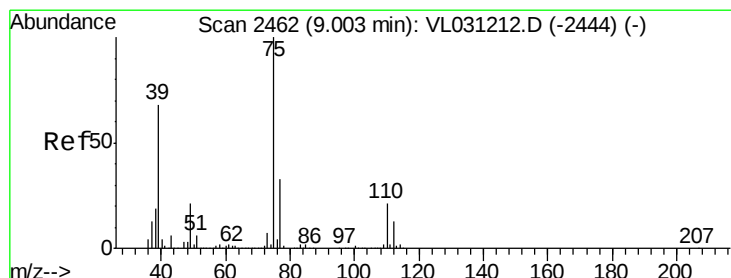
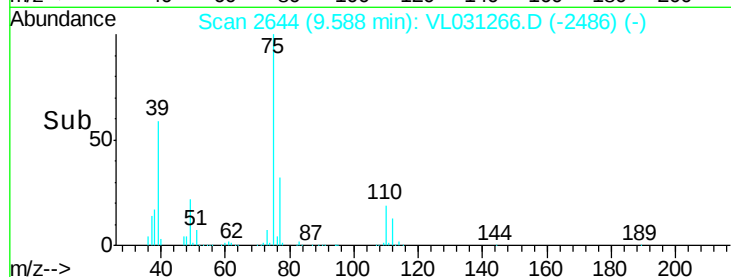
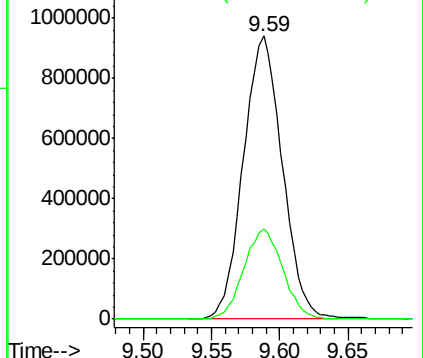
MMDadoda

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 9.25 ppbv

RT: 9.01 min Scan# 2463

Delta R.T. 0.00 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

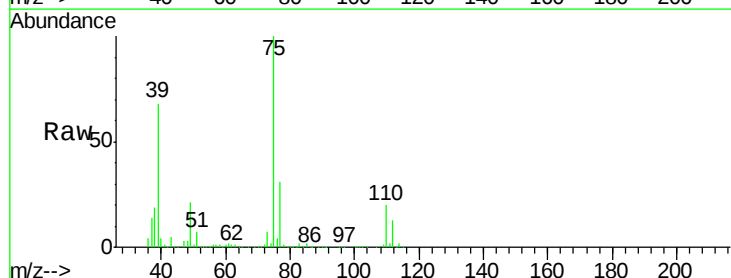
Tgt Ion: 75 Resp: 2321455

Ion Ratio Lower Upper

75 100

39 68.3 54.2 81.4

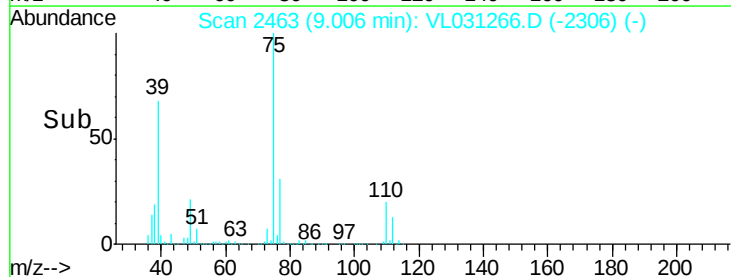
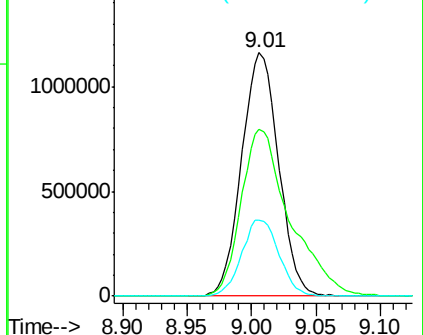
77 31.4 26.2 39.4

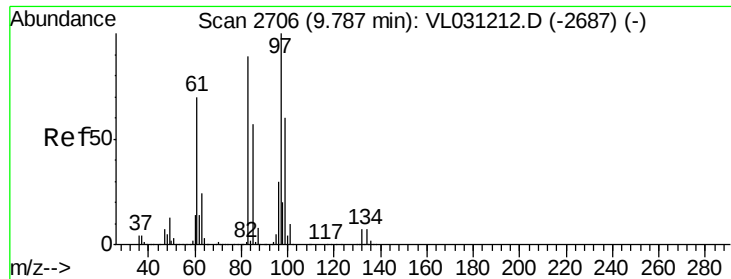


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





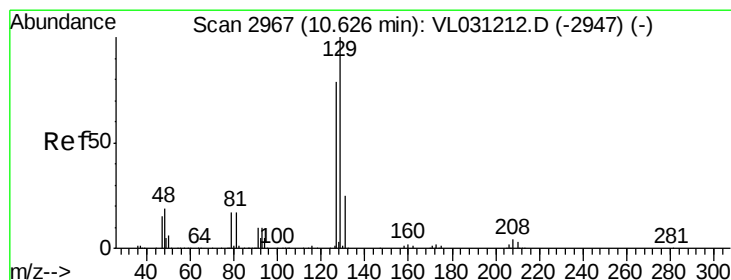
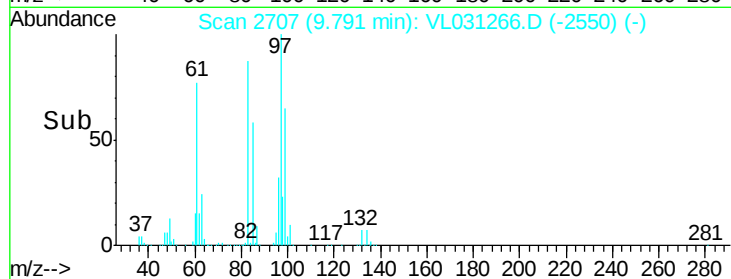
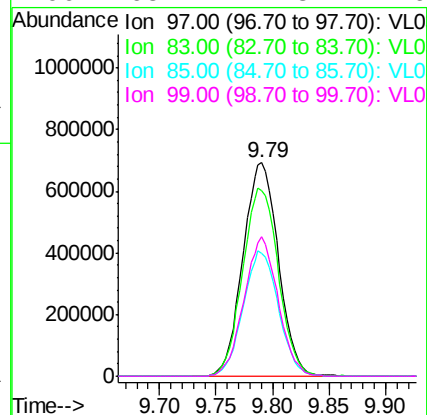
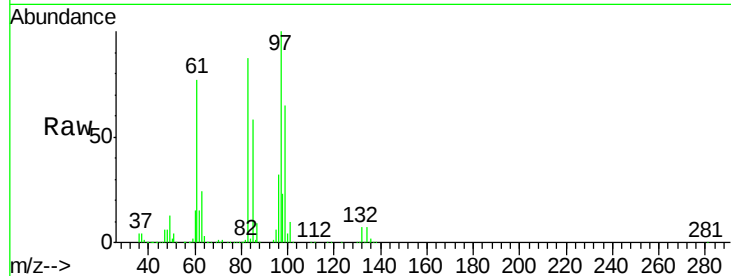
#47
 1,1,2-Trichloroethane
 Concen: 9.47 ppbv
 RT: 9.79 min Scan# 2707
 Delta R.T. 0.00 min
 Lab File: VL031266.D
 Acq: 20 Dec 2017 11:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1220ABS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	87.1	71.0	106.4
85	57.7	45.3	67.9
99	65.2	47.8	71.6

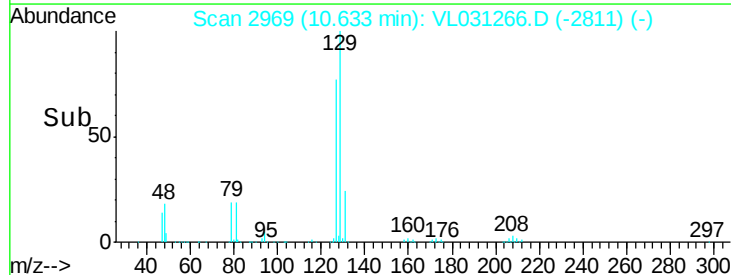
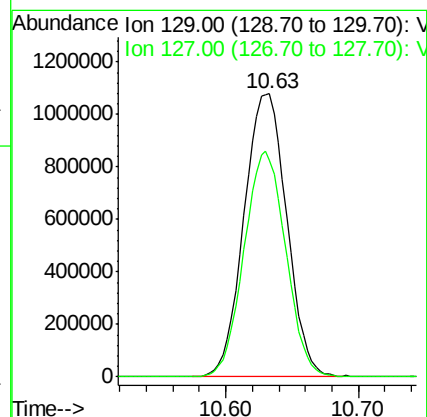
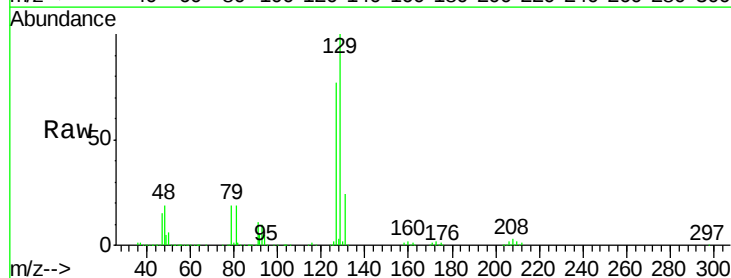
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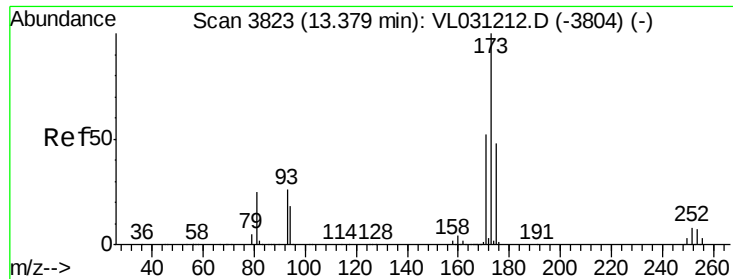
MMDadoda
 12/22/2017 4:54:42 PM



#48
 Dibromochloromethane
 Concen: 9.71 ppbv
 RT: 10.63 min Scan# 2969
 Delta R.T. 0.01 min
 Lab File: VL031266.D
 Acq: 20 Dec 2017 11:51

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.0	39.1	117.5





#49

Bromoform

Concen: 9.78 ppbv

RT: 13.38 min Scan# 3824

Delta R.T. 0.00 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1220ABS01

Tot Ion:173 Resp: 1800052

Ion Ratio Lower Upper

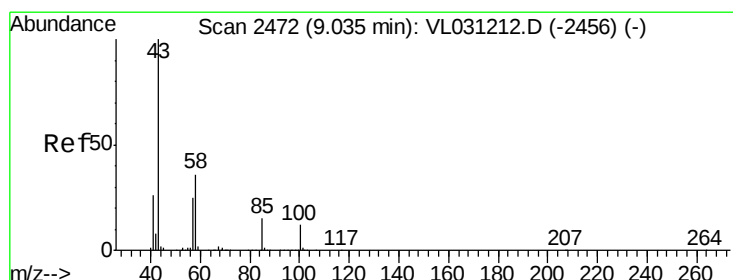
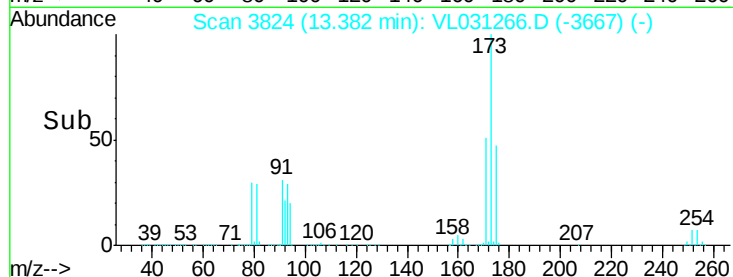
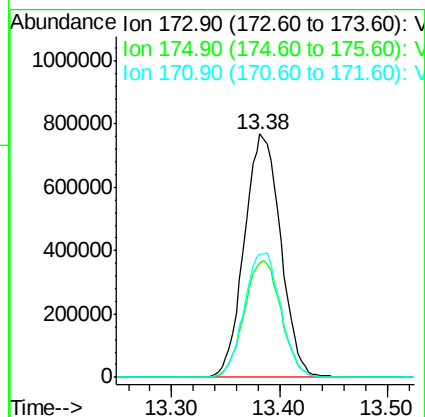
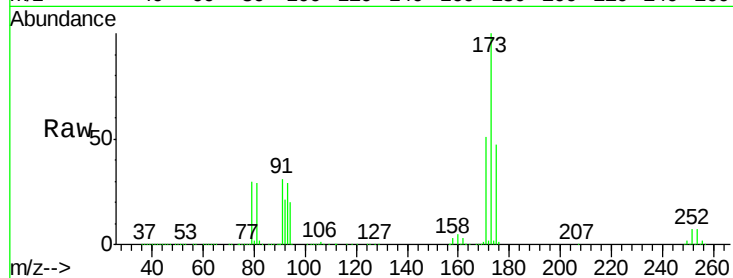
173 100

175 48.7 39.0 58.4

171 51.8 41.8 62.8

Manual Integrations
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#50

4-Methyl-2-Pentanone

Concen: 9.20 ppbv

RT: 9.04 min Scan# 2473

Delta R.T. 0.00 min

Lab File: VL031266.D

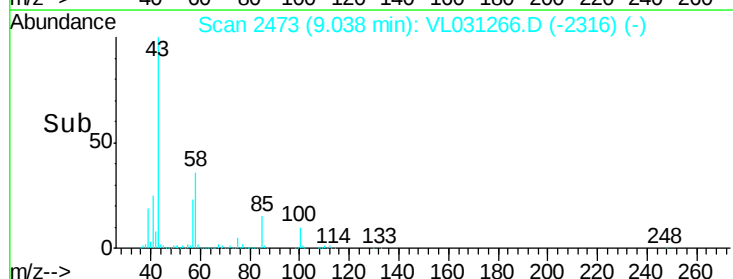
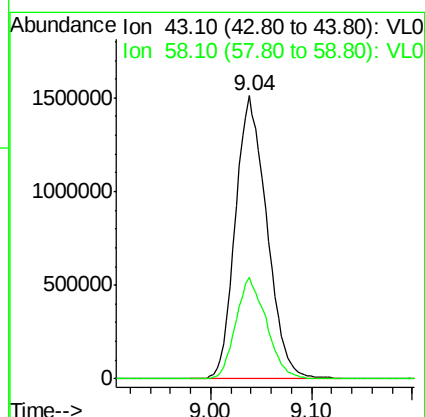
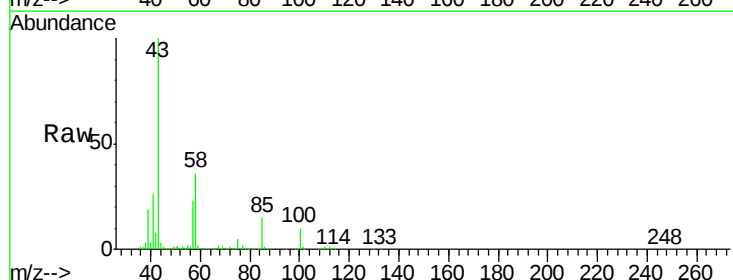
Acq: 20 Dec 2017 11:51

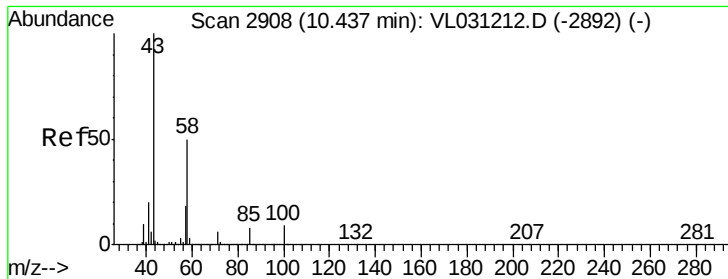
Tgt Ion: 43 Resp: 3268725

Ion Ratio Lower Upper

43 100

58 35.1 28.8 43.2





#51

2-Hexanone

Concen: 8.83 ppbv

RT: 10.44 min Scan# 2909

Delta R.T. 0.00 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1220ABS01

Tot Ion: 43 Resp: 2994662

Ion Ratio Lower Upper

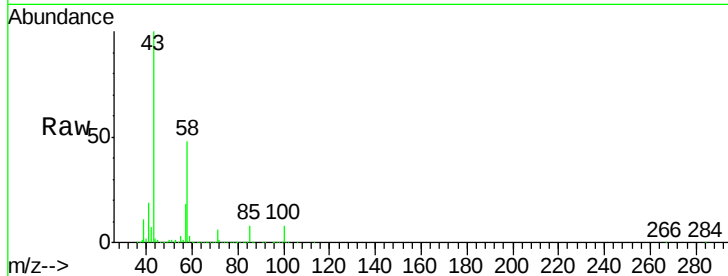
43 100

58 47.1 39.8 59.6

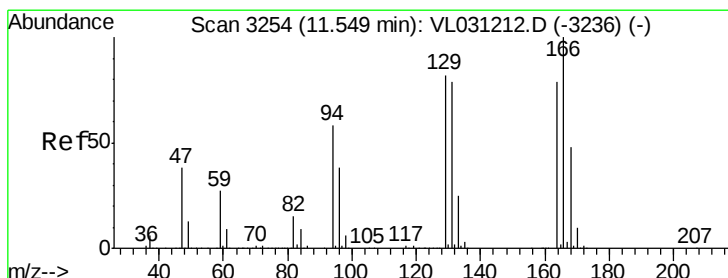
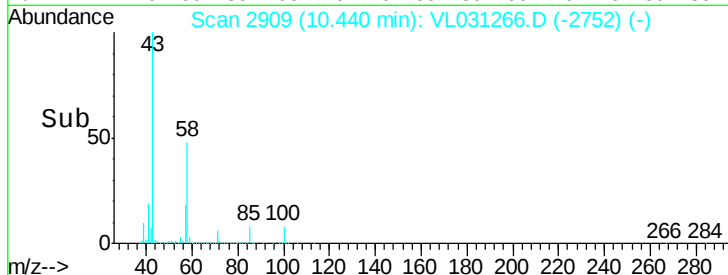
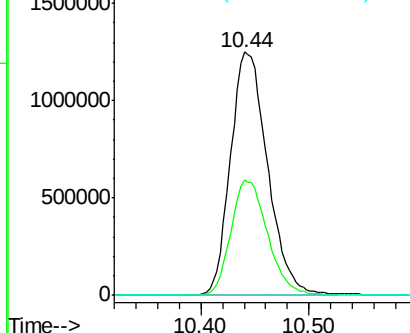
98 0.1 0.0 0.0#

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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: 7.87 ppbv

RT: 11.55 min Scan# 3255

Delta R.T. 0.00 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

Tgt Ion:164 Resp: 1265028

Ion Ratio Lower Upper

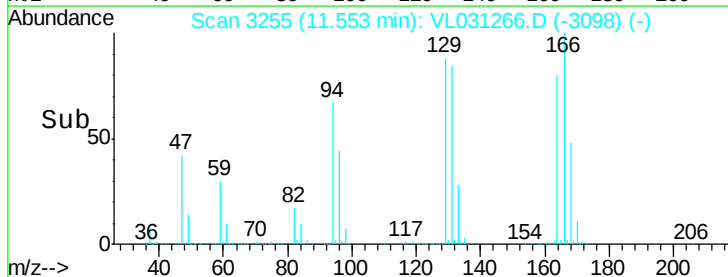
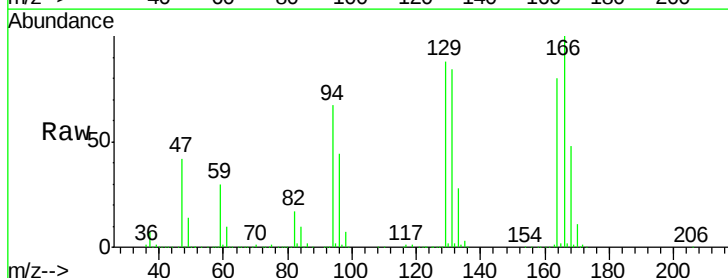
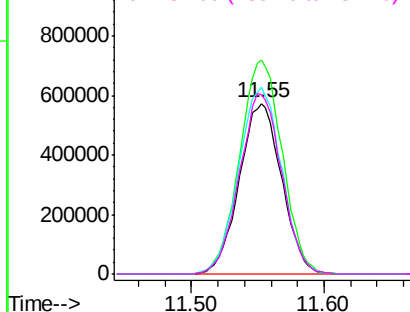
164 100

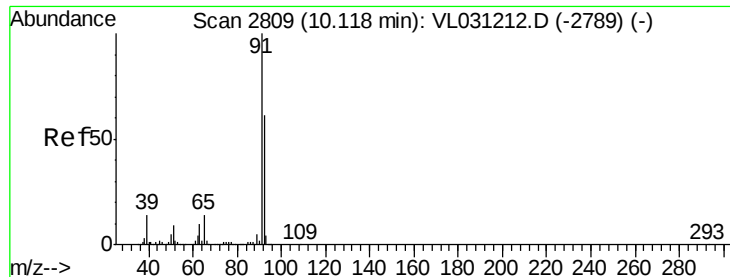
166 125.1 100.6 151.0

129 109.9 82.9 124.3

131 105.3 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





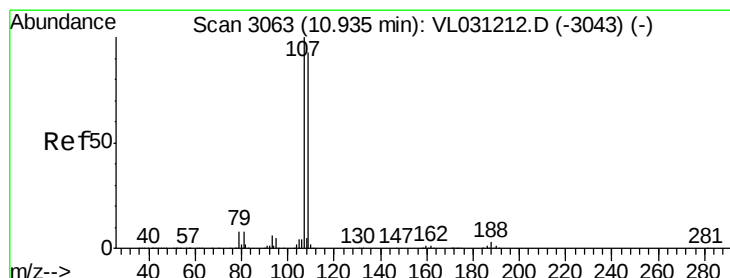
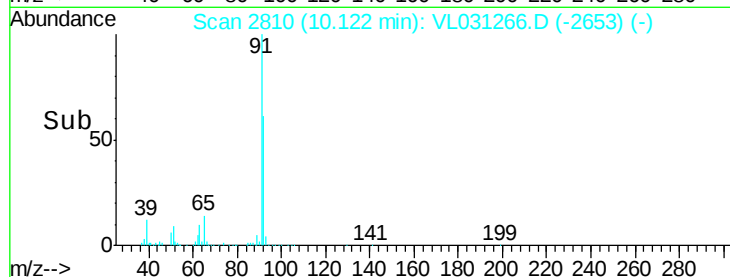
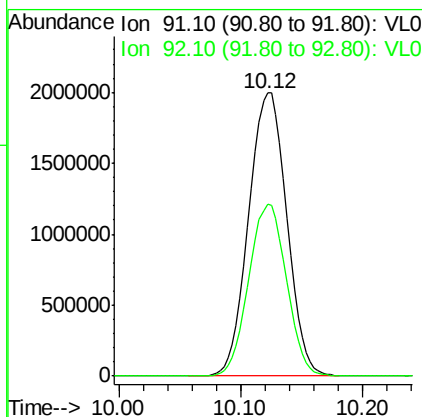
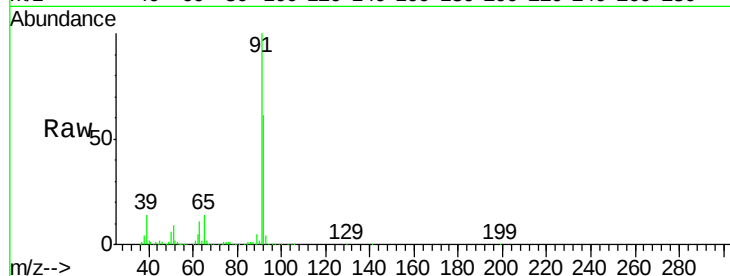
#53
Toluene
Concen: 9.15 ppbv
RT: 10.12 min Scan# 2810
Delta R.T. 0.00 min
Lab File: VL031266.D
Acq: 20 Dec 2017 11:51

Instrument :
MSVOA_L
ClientSampleId :
VL1220ABS01

Tot Ion: 91 Resp: 4323364
Ion Ratio Lower Upper
91 100
92 60.2 49.1 73.7

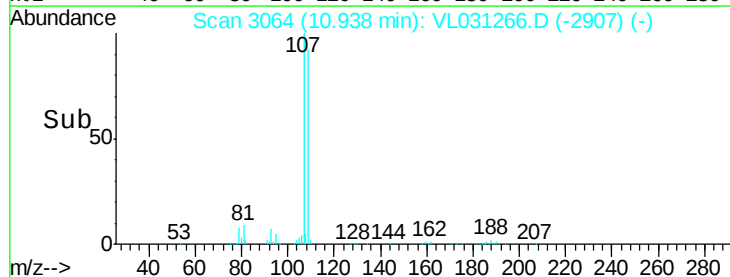
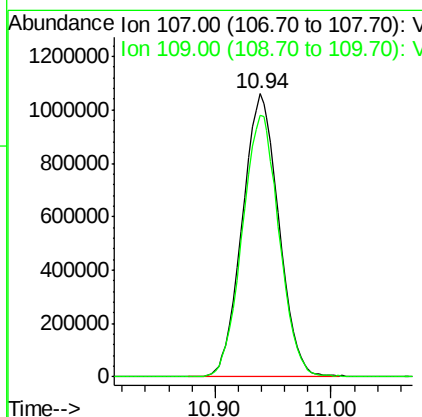
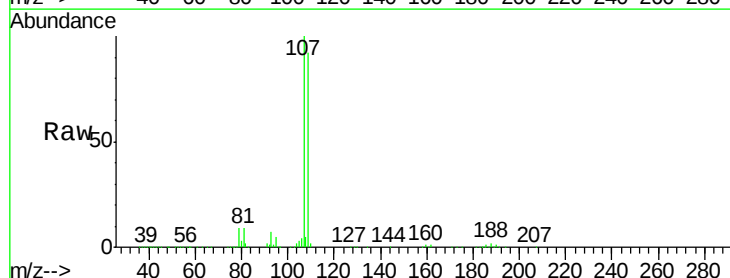
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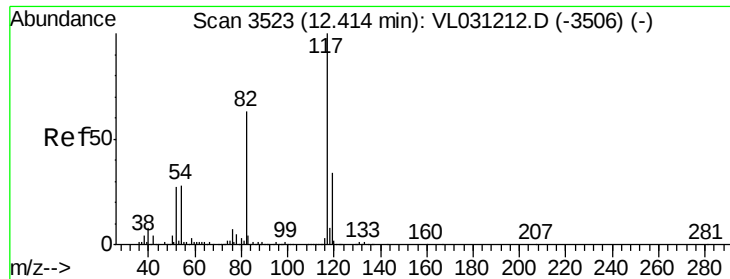
MMDadoda
12/22/2017 4:54:42 PM



#54
1,2-Dibromoethane
Concen: 9.57 ppbv
RT: 10.94 min Scan# 3064
Delta R.T. 0.00 min
Lab File: VL031266.D
Acq: 20 Dec 2017 11:51

Tgt Ion: 107 Resp: 2315946
Ion Ratio Lower Upper
107 100
109 92.4 74.7 112.1





#55

Chlorobenzene-d5

Concen: 10.00 ppbv m

RT: 12.42 min Scan# 3525

Delta R.T. 0.01 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1220ABS01

Tot Ion:117 Resp: 4376801

Ion Ratio Lower Upper

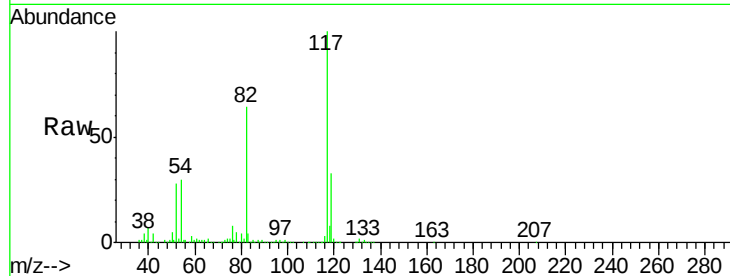
117 100

82 60.2 48.1 72.1

119 53.3 23.1 34.7#

Manual Integrations
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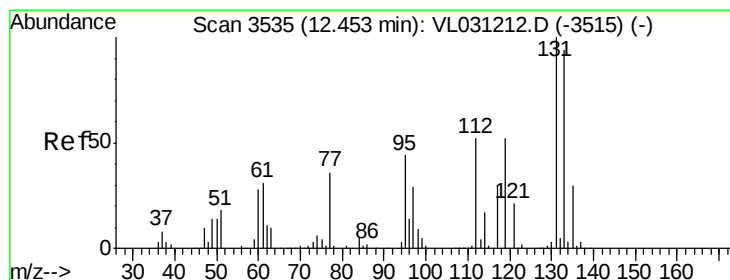
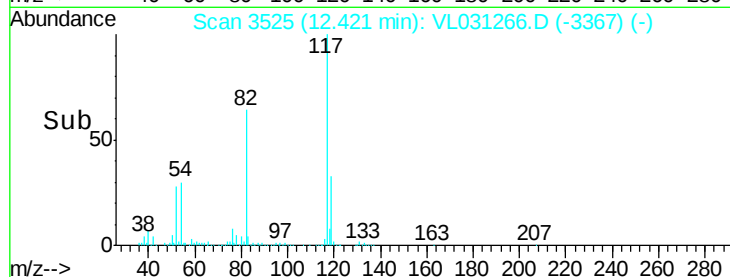
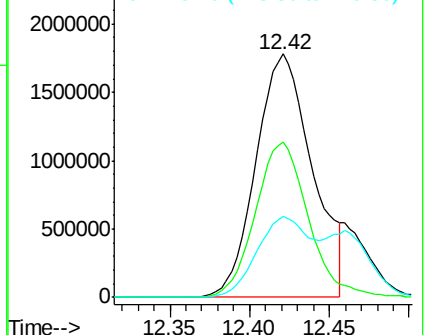
MMDadoda
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 8.56 ppbv

RT: 12.46 min Scan# 3537

Delta R.T. 0.01 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

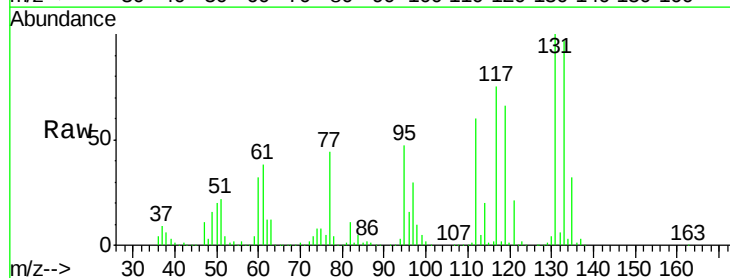
Tgt Ion:131 Resp: 1672018

Ion Ratio Lower Upper

131 100

133 94.8 76.1 114.1

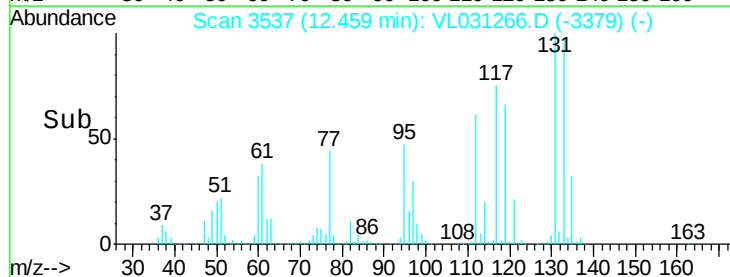
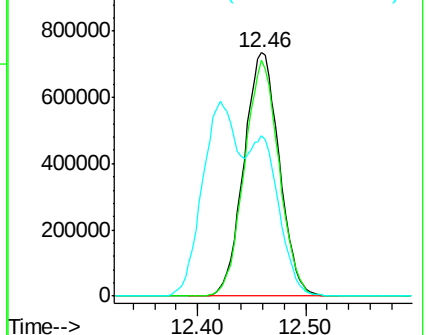
119 139.6 108.5 162.7

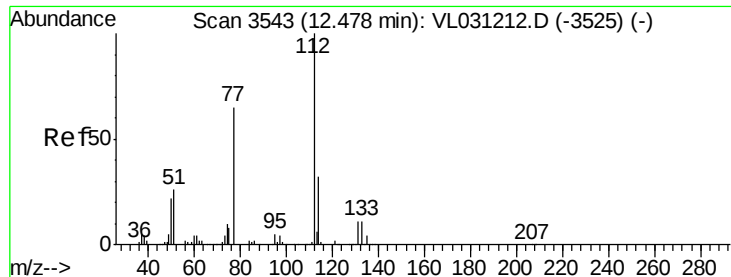


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 7.87 ppbv

RT: 12.48 min Scan# 3544

Delta R.T. 0.00 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

Instrument :

MSVOA_L

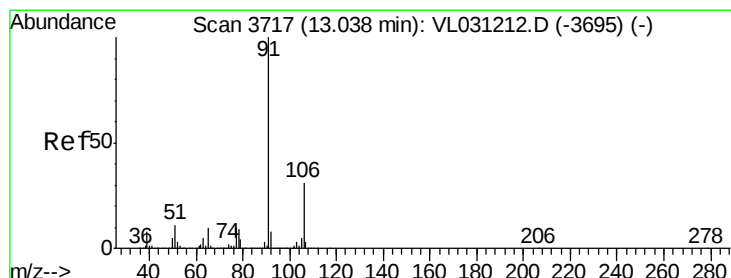
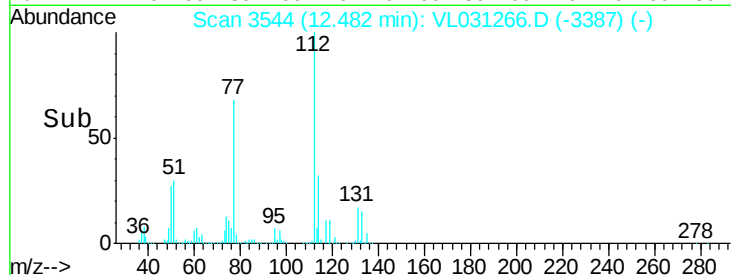
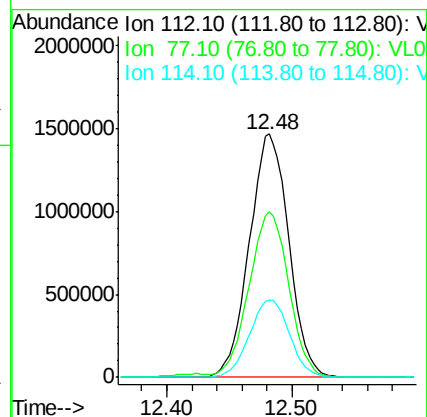
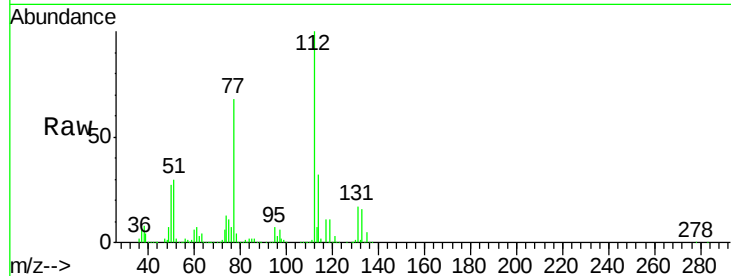
ClientSampleId :

VL1220ABS01

Tot Ion	Ratio	Lower	Upper
112	100		
77	67.6	52.9	79.3
114	31.9	29.1	35.5

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#58

Ethyl Benzene

Concen: 7.90 ppbv

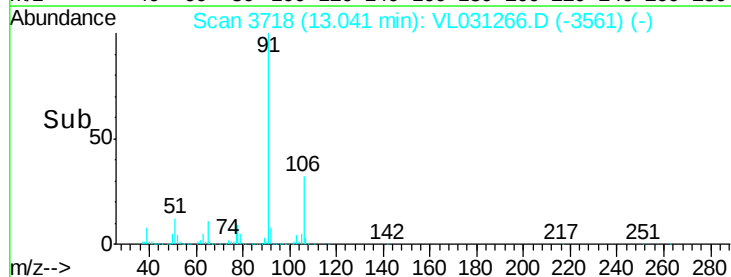
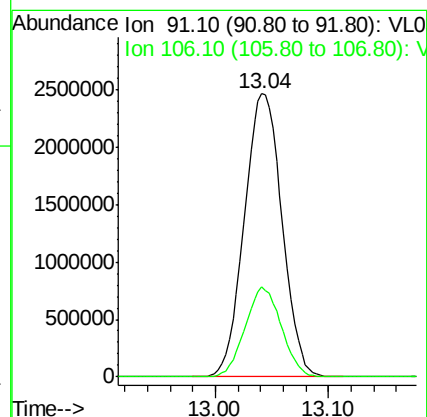
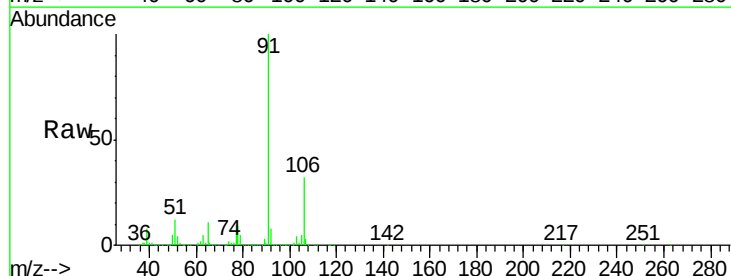
RT: 13.04 min Scan# 3718

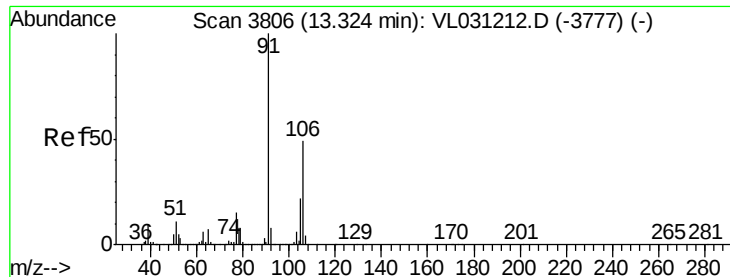
Delta R.T. 0.00 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.7	25.1	37.7





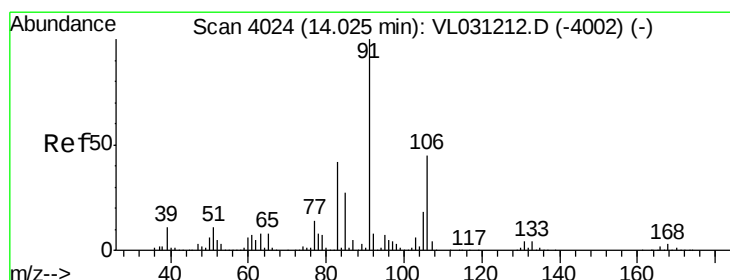
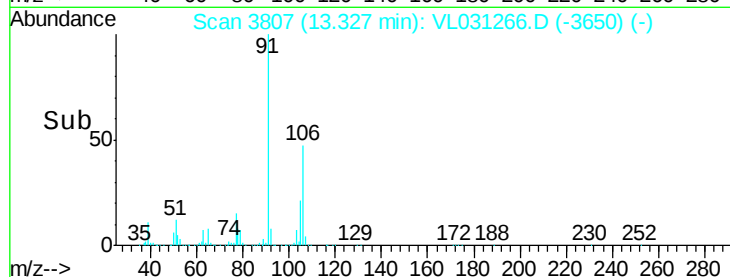
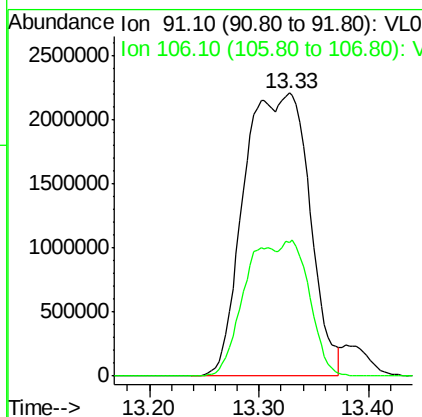
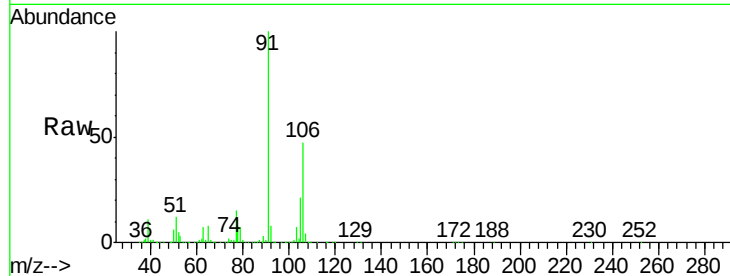
#59
m/p-Xylene
Concen: 15.73 ppbv m
RT: 13.33 min Scan# 3807
Delta R.T. 0.00 min
Lab File: VL031266.D
Acq: 20 Dec 2017 11:51

Instrument :
MSVOA_L
ClientSampleId :
VL1220ABS01

Tot Ion: 91 Resp: 9101227
Ion Ratio Lower Upper
91 100
106 46.2 38.5 57.7

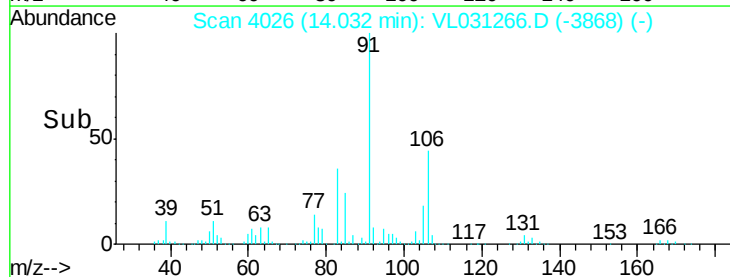
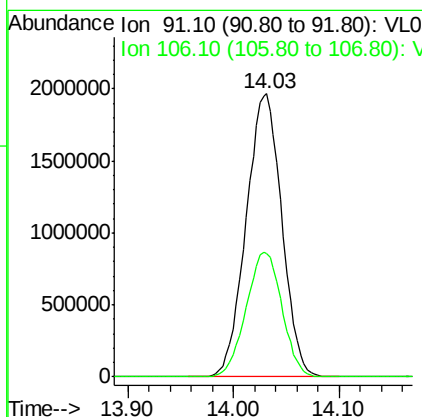
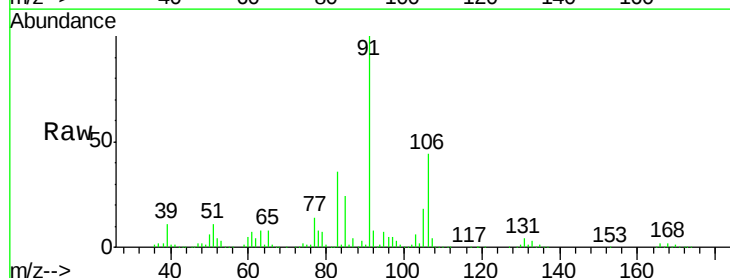
Manual Integrations
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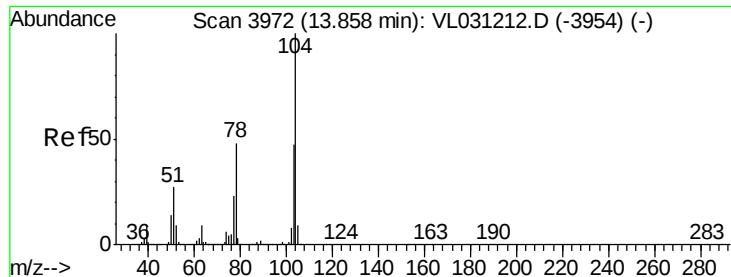
MMDadoda
12/22/2017 4:54:42 PM



#60
o-Xylene
Concen: 7.92 ppbv
RT: 14.03 min Scan# 4026
Delta R.T. 0.01 min
Lab File: VL031266.D
Acq: 20 Dec 2017 11:51

Tgt Ion: 91 Resp: 4616117
Ion Ratio Lower Upper
91 100
106 44.3 22.7 68.1





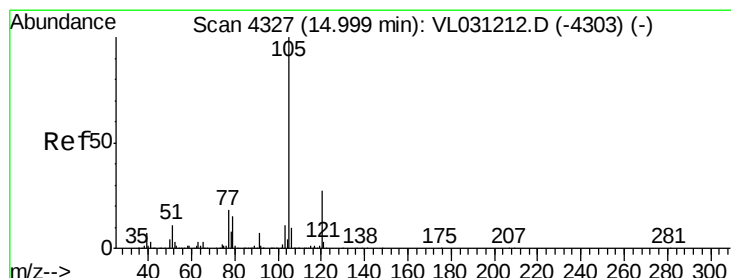
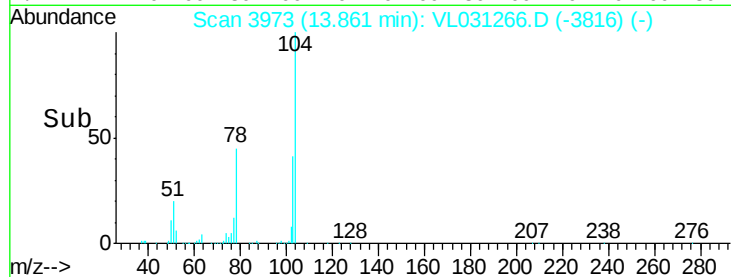
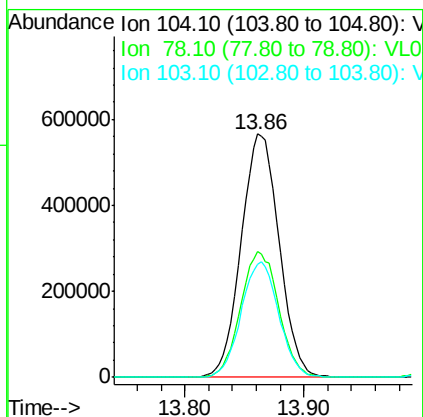
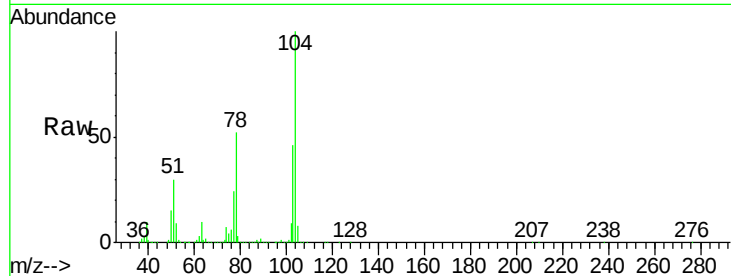
#61
Stvrene
Concen: 7.48 ppbv
RT: 13.86 min Scan# 3973
Delta R.T. 0.00 min
Lab File: VL031266.D
Acq: 20 Dec 2017 11:51

Instrument :
MSVOA_L
ClientSampleId :
VL1220ABS01

Tot Ion	Ratio	Lower	Upper
104	100		
78	52.0	39.1	58.7
103	47.1	37.3	55.9

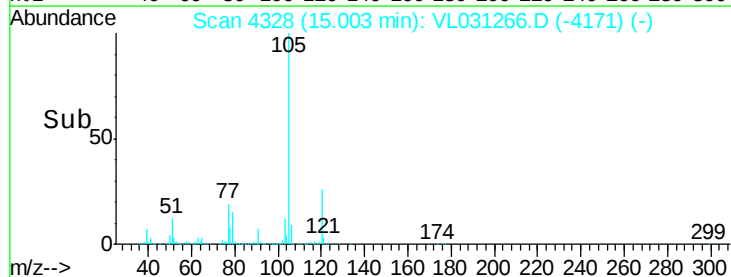
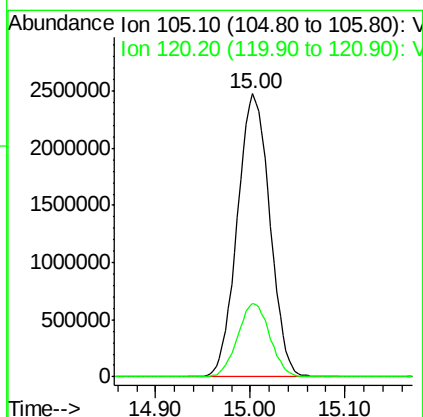
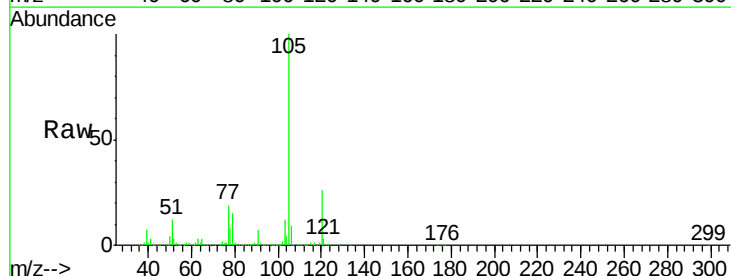
Manual Integrations
APPROVED

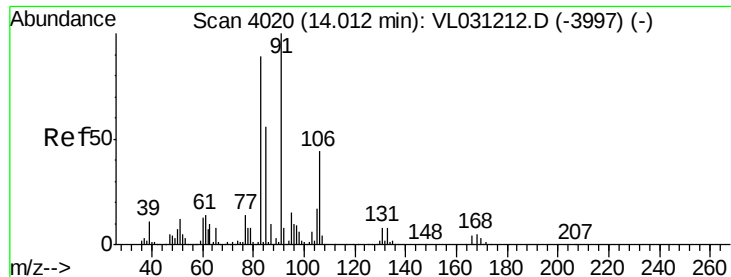
MMDadoda
12/22/2017 4:54:42 PM



#62
Isopropylbenzene
Concen: 7.74 ppbv
RT: 15.00 min Scan# 4328
Delta R.T. 0.00 min
Lab File: VL031266.D
Acq: 20 Dec 2017 11:51

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.7	21.0	31.6





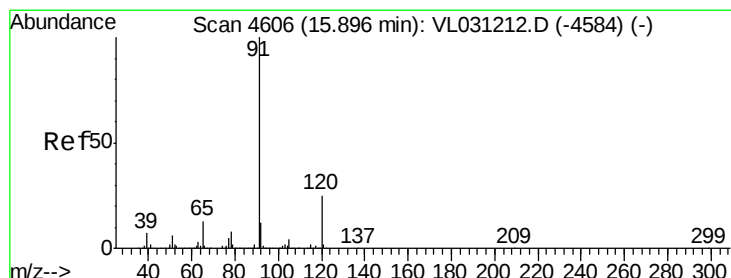
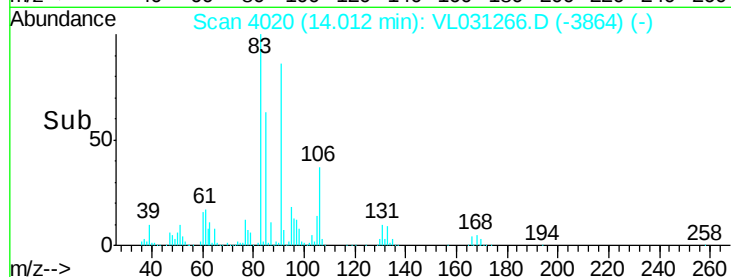
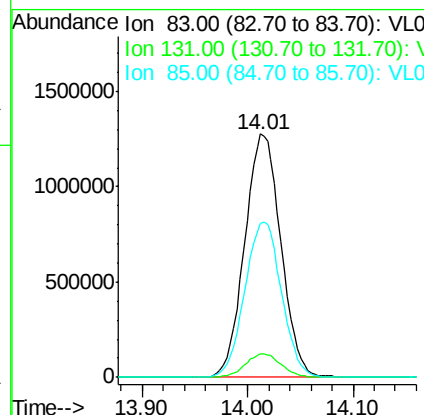
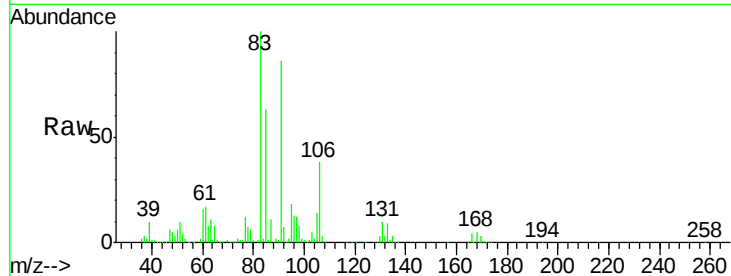
#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.81 ppbv
 RT: 14.01 min Scan# 4020
 Delta R.T. 0.00 min
 Lab File: VL031266.D
 Acq: 20 Dec 2017 11:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1220ABS01

Tot Ion	83	Resp	3051487
Ion	Ratio	Lower	Upper
83	100		
131	9.6	4.8	14.3
85	65.0	32.1	96.5

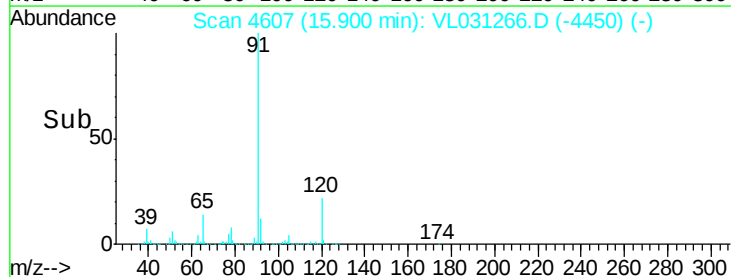
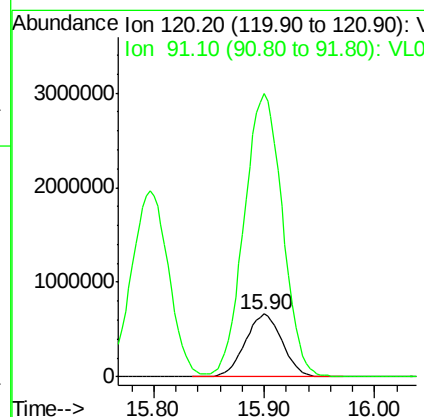
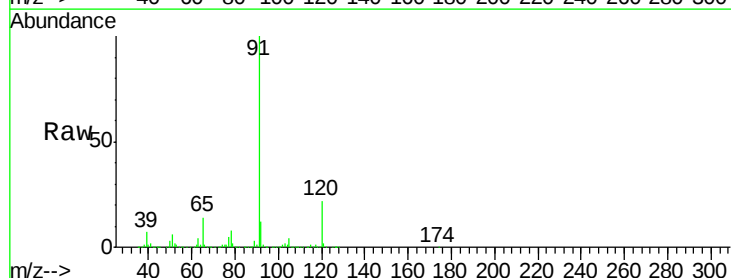
Manual Integrations
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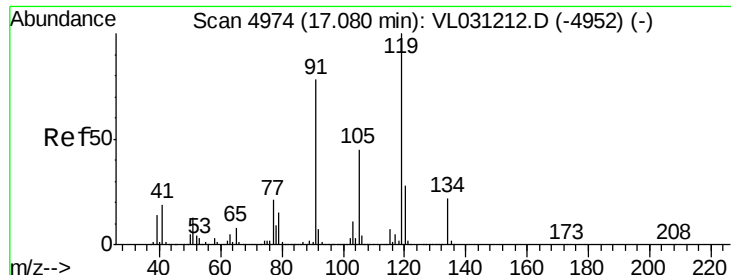
MMDadoda
 12/22/2017 4:54:42 PM



#64
 n-propylbenzene
 Concen: 7.59 ppbv
 RT: 15.90 min Scan# 4607
 Delta R.T. 0.00 min
 Lab File: VL031266.D
 Acq: 20 Dec 2017 11:51

Tgt Ion	120	Resp	1541199
Ion	Ratio	Lower	Upper
120	100		
91	467.6	352.1	528.1





#65

tert-Butylbenzene

Concen: 7.80 ppbv

RT: 17.09 min Scan# 4976

Delta R.T. 0.01 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1220ABS01

Tot Ion:119 Resp: 5285087

Ion Ratio Lower Upper

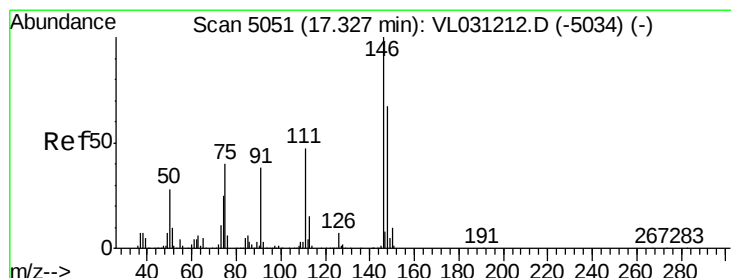
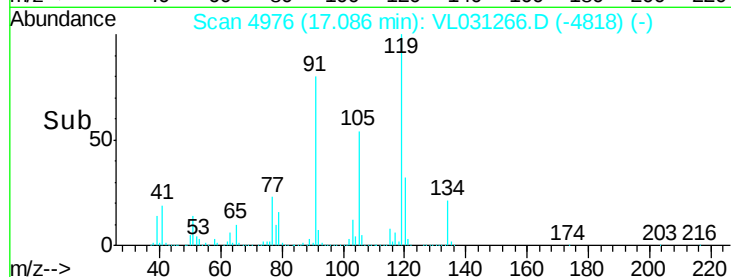
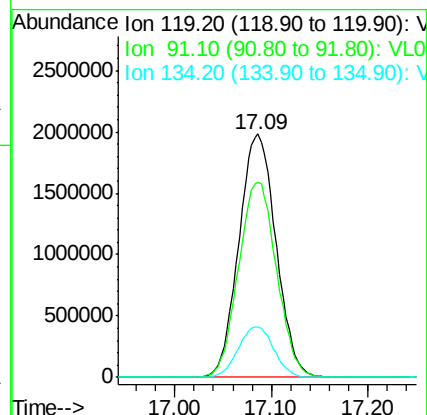
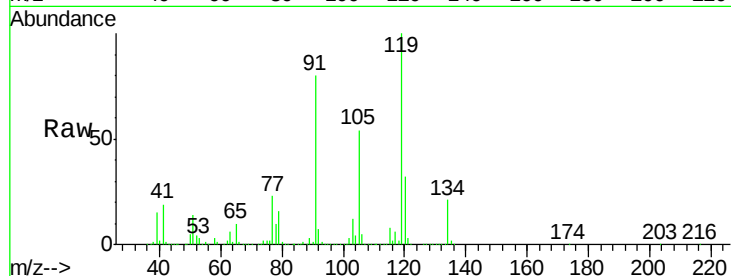
119 100

91 82.2 63.3 94.9

134 20.0 16.1 24.1

Manual Integrations
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#66

Benzyl Chloride

Concen: 6.41 ppbv

RT: 17.33 min Scan# 5053

Delta R.T. 0.01 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

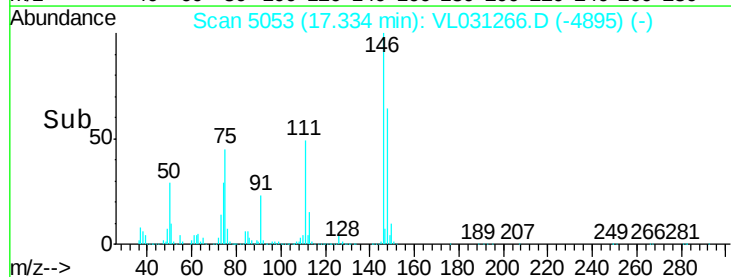
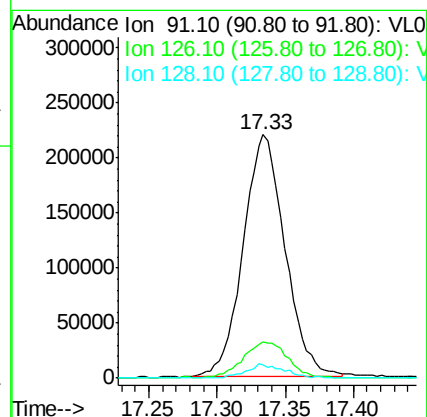
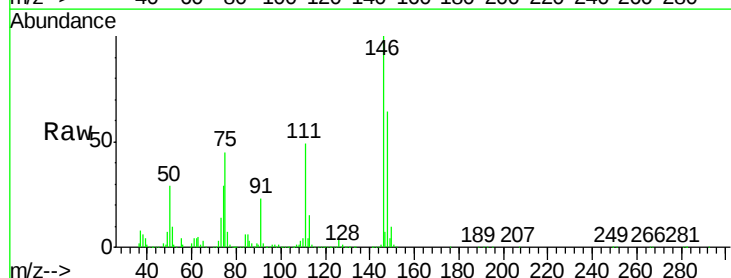
Tgt Ion: 91 Resp: 468046

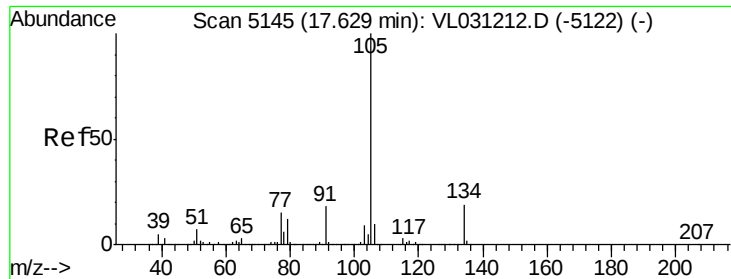
Ion Ratio Lower Upper

91 100

126 16.5 15.2 22.8

128 5.3 4.9 7.3





#67

sec-Butylbenzene

Concen: 7.75 ppbv

RT: 17.64 min Scan# 5147

Delta R.T. 0.01 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1220ABS01

Tot Ion: 105 Resp: 7216705

Ion Ratio Lower Upper

105 100

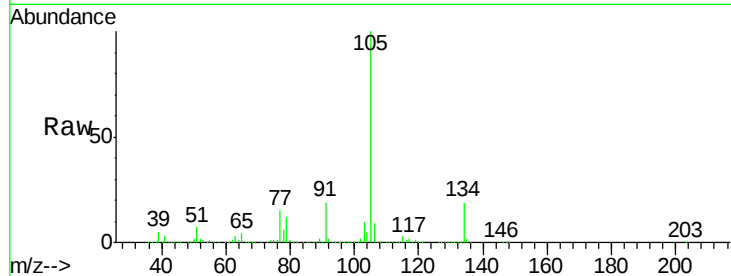
134 18.6 15.3 22.9

Manual Integrations

APPROVED

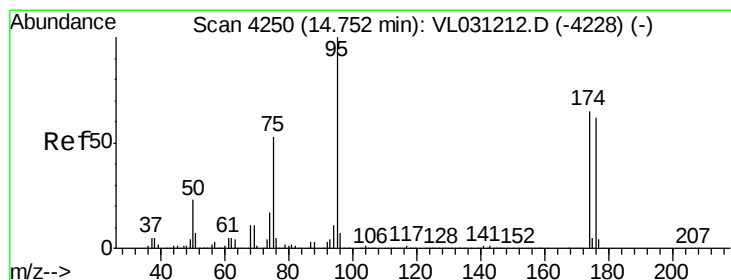
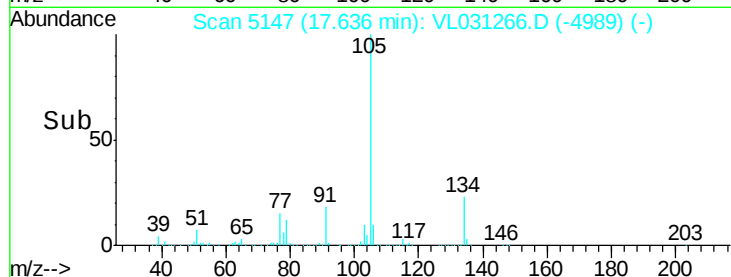
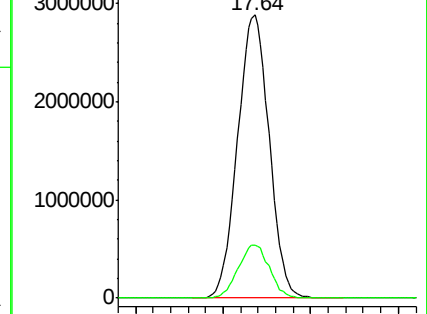
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.29 ppbv

RT: 14.76 min Scan# 4252

Delta R.T. 0.01 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

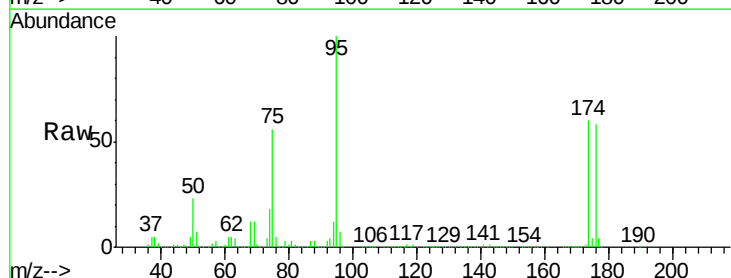
Tgt Ion: 95 Resp: 3204230

Ion Ratio Lower Upper

95 100

174 60.8 52.5 78.7

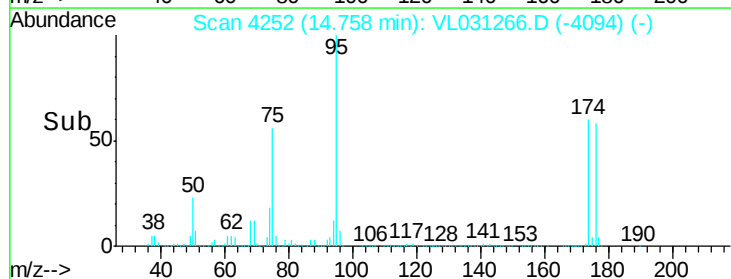
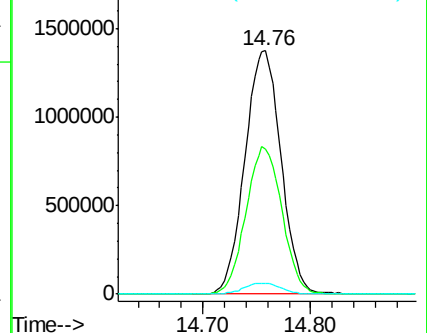
175 4.6 4.1 6.1

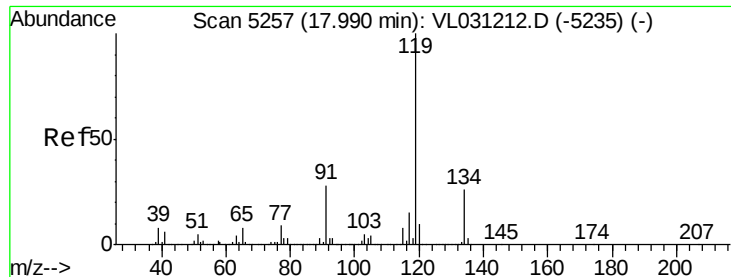


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





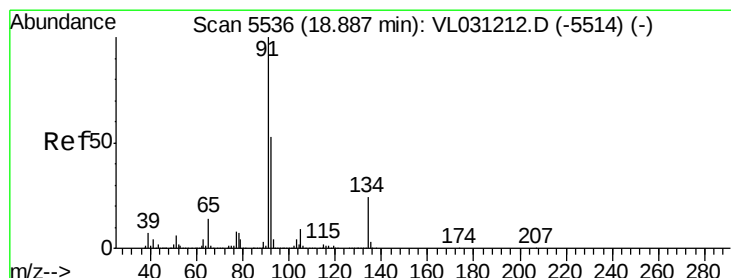
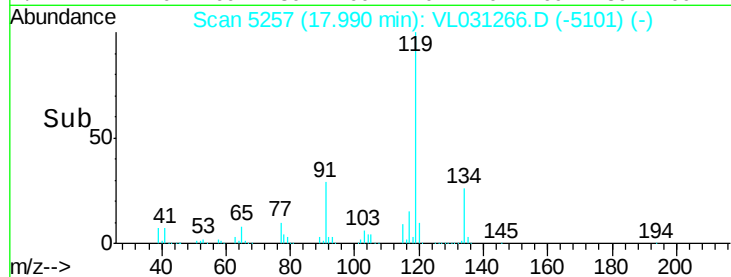
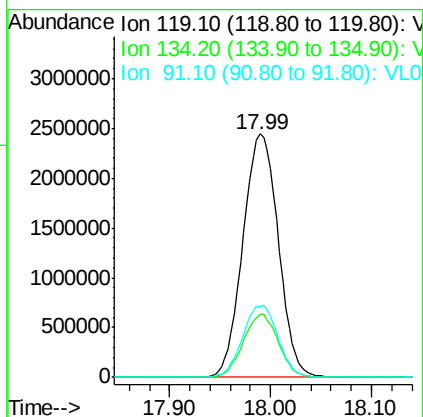
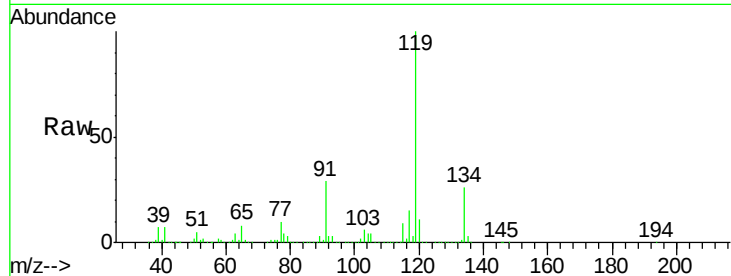
#69
 p-Isopropyltoluene
 Concen: 7.66 ppbv
 RT: 17.99 min Scan# 5257
 Delta R.T. 0.00 min
 Lab File: VL031266.D
 Acq: 20 Dec 2017 11:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1220ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.6	20.7	31.1
91	29.6	22.3	33.5

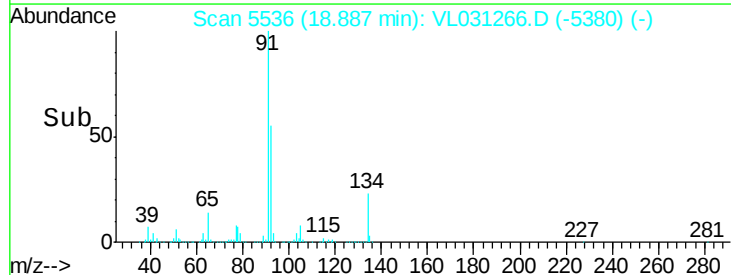
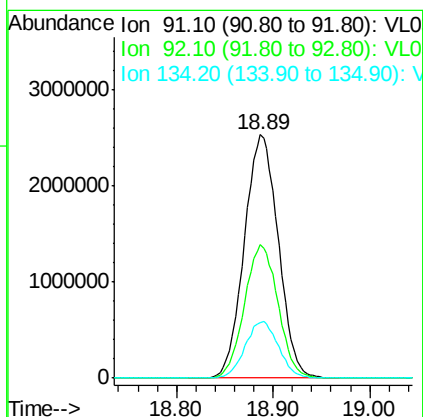
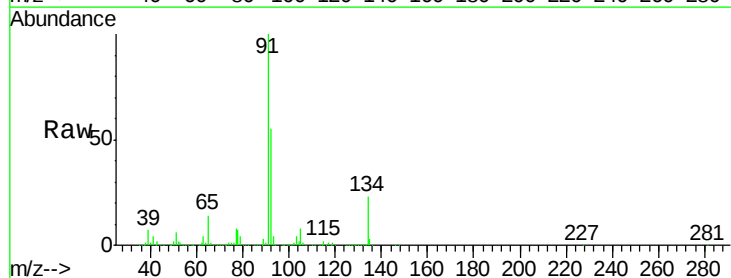
Manual Integrations
 APPROVED

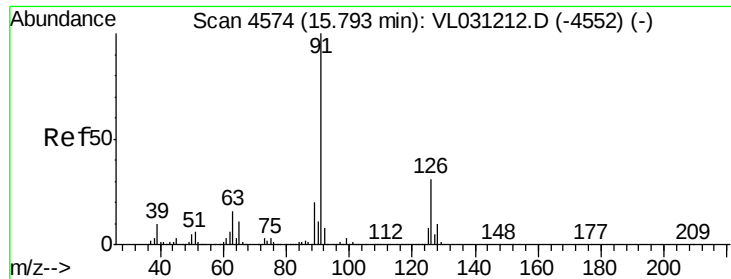
MMDadoda
 12/22/2017 4:54:42 PM



#70
 n-Butylbenzene
 Concen: 8.26 ppbv
 RT: 18.89 min Scan# 5536
 Delta R.T. 0.00 min
 Lab File: VL031266.D
 Acq: 20 Dec 2017 11:51

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.1	43.4	65.2
134	22.9	19.3	28.9





#71

2-Chlorotoluene

Concen: 8.09 ppbv

RT: 15.80 min Scan# 4575

Delta R.T. 0.00 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1220ABS01

Tot Ion: 91 Resp: 4592780

Ion Ratio Lower Upper

91 100

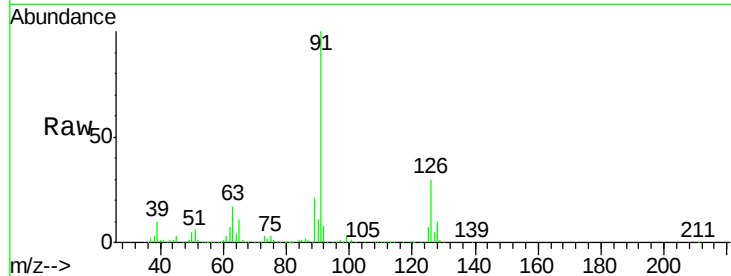
126 30.4 12.6 50.6

Manual Integrations

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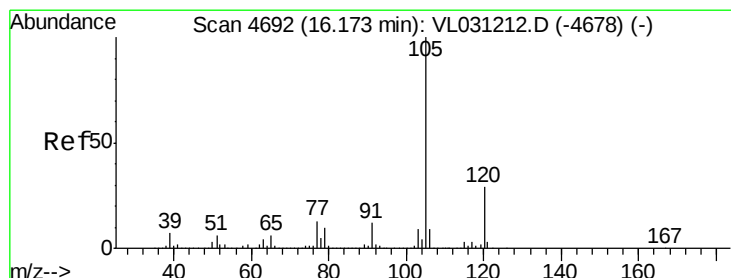
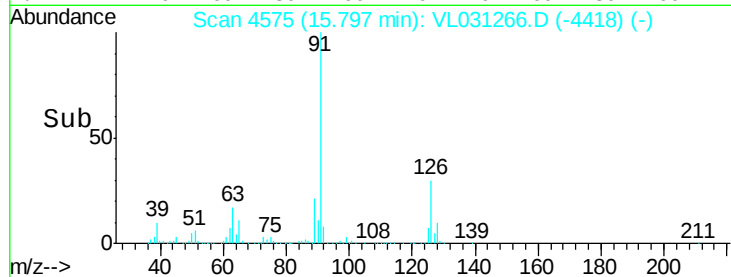
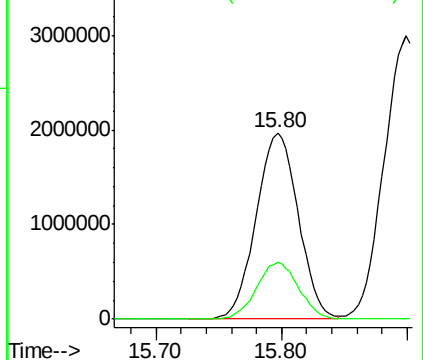
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 8.15 ppbv

RT: 16.18 min Scan# 4693

Delta R.T. 0.00 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

Tgt Ion:105 Resp: 5204455

Ion Ratio Lower Upper

105 100

120 29.5 24.2 36.2

91 12.8 9.8 14.8

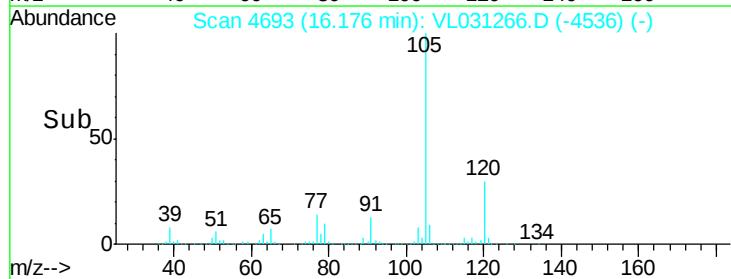
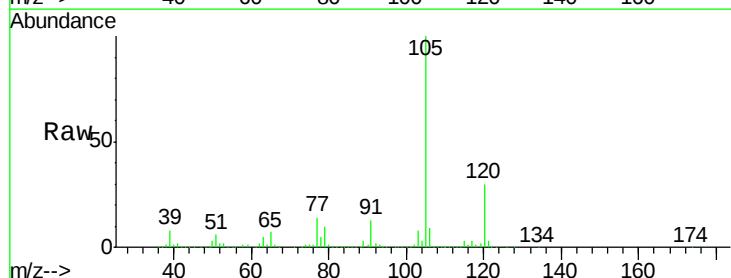
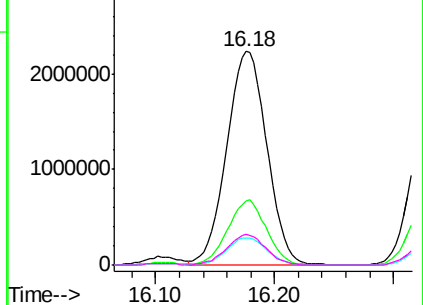
77 13.9 10.5 15.7

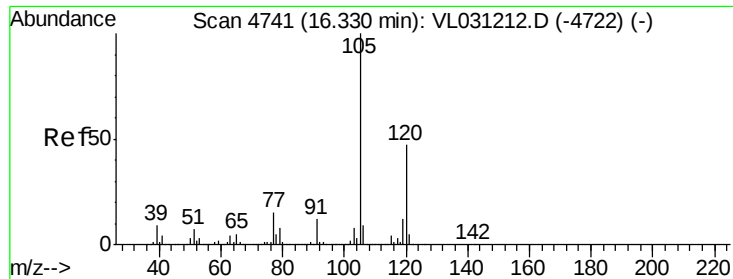
Abundance Ion 105.10 (104.80 to 105.80): V

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





#73

1,3,5-Trimethylbenzene

Concen: 8.08 ppbv

RT: 16.33 min Scan# 4742

Delta R.T. 0.00 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1220ABS01

Tot Ion:105 Resp: 4591955

Ion Ratio Lower Upper

105 100

120 46.2

37.8

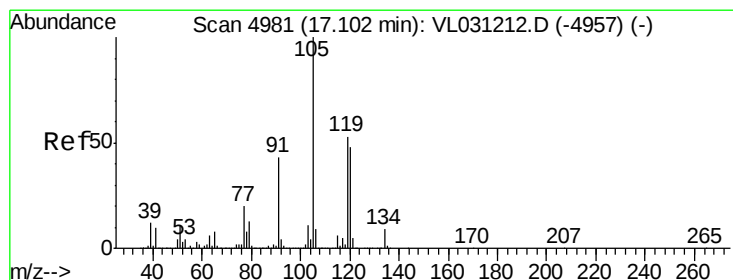
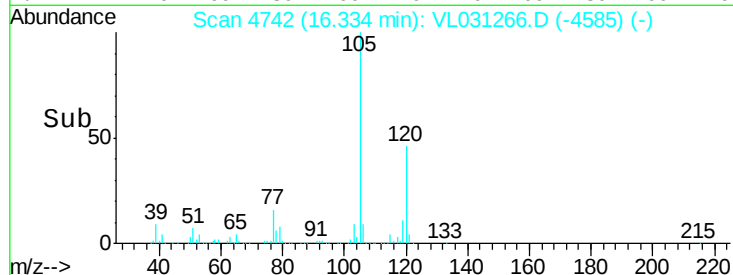
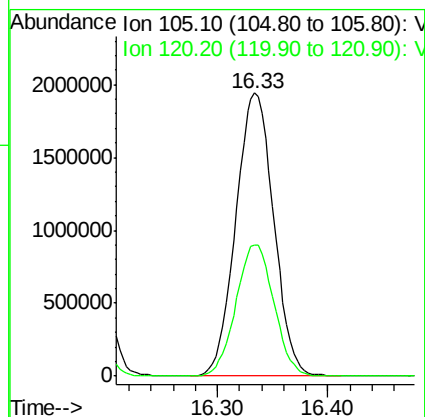
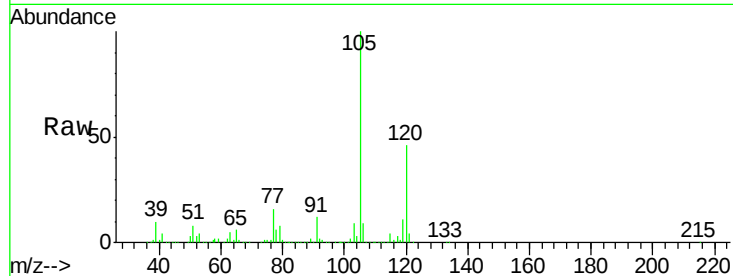
56.6

Manual Integrations

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#74

1,2,4-Trimethylbenzene

Concen: 7.76 ppbv

RT: 17.10 min Scan# 4981

Delta R.T. 0.00 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

Tgt Ion:105 Resp: 4642065

Ion Ratio Lower Upper

105 100

120 48.9

38.6

58.0

91 52.6

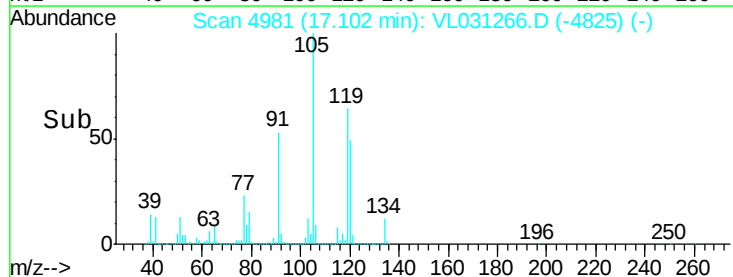
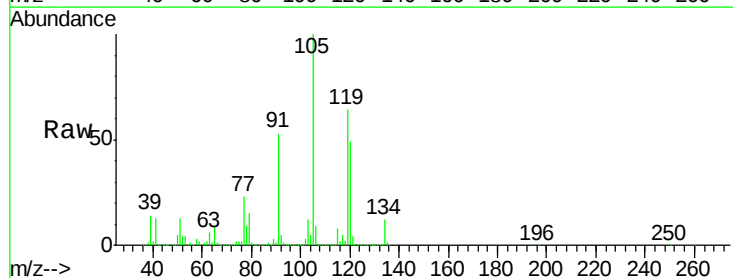
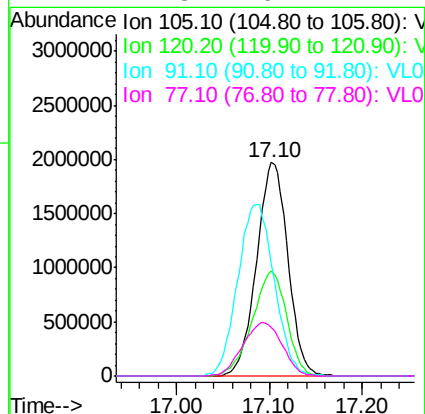
34.2

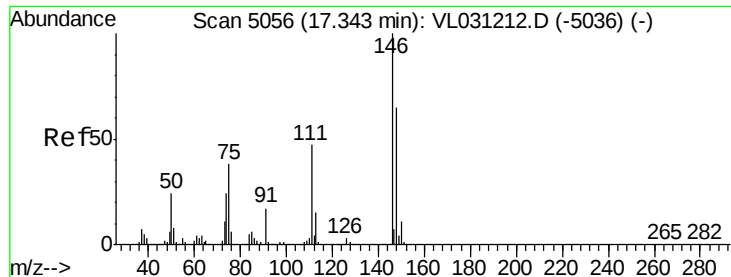
51.4#

77 22.8

16.1

24.1





#75

1,3-Dichlorobenzene

Concen: 7.48 ppbv

RT: 17.35 min Scan# 5057

Delta R.T. 0.00 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1220ABS01

Tot Ion:146 Resp: 2836410

Ion Ratio Lower Upper

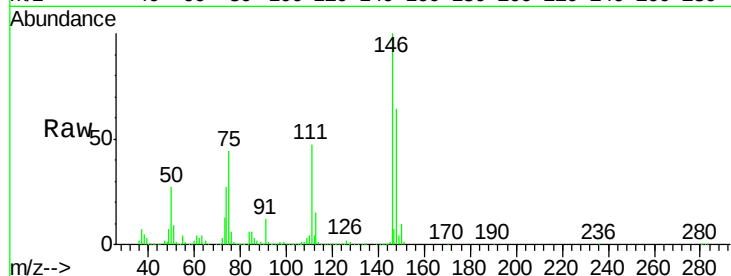
146 100

111 47.3 22.7 68.1

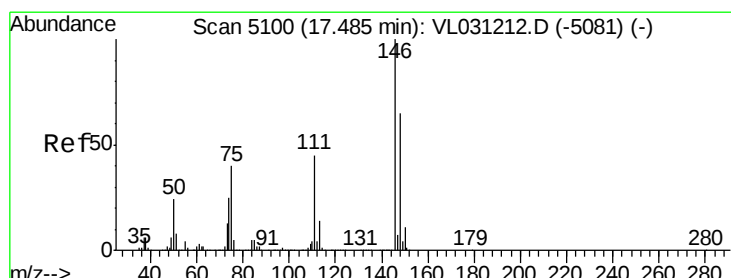
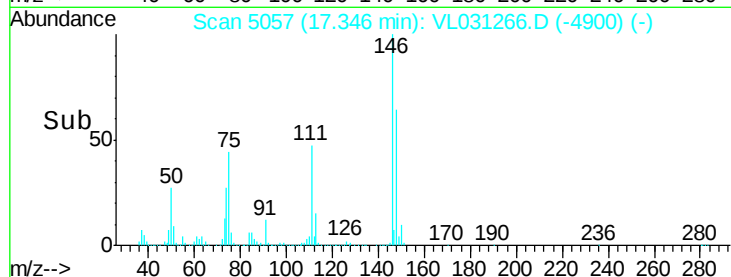
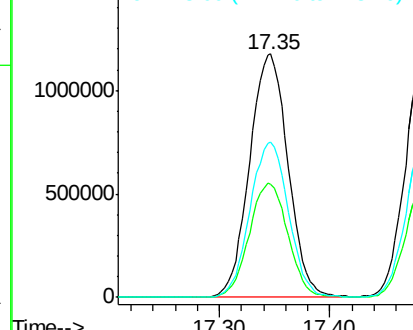
148 64.3 32.0 96.2

Manual Integrations
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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: 7.45 ppbv

RT: 17.48 min Scan# 5100

Delta R.T. 0.00 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

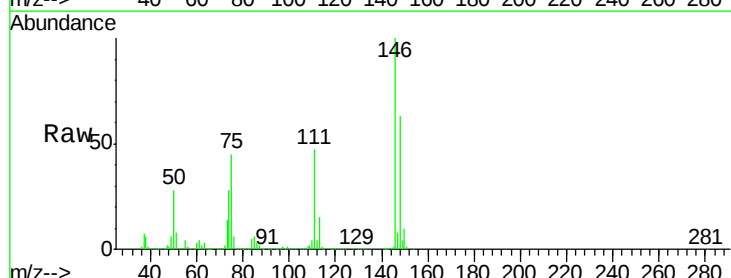
Tgt Ion:146 Resp: 2854868

Ion Ratio Lower Upper

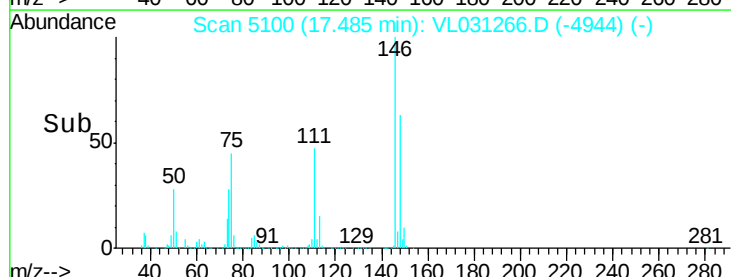
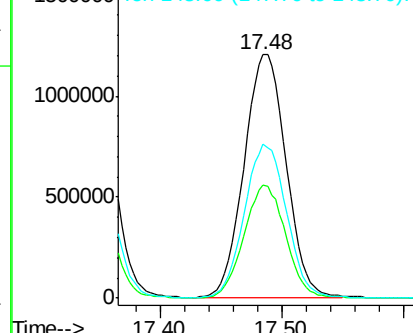
146 100

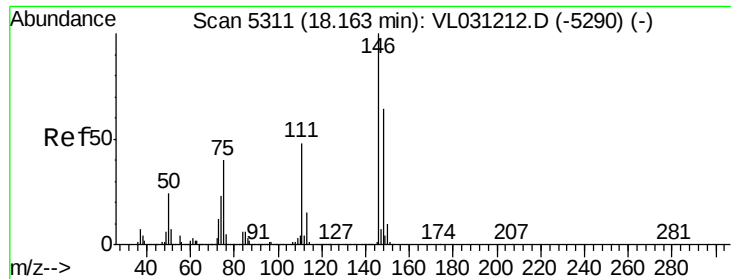
111 46.3 22.1 66.1

148 64.1 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





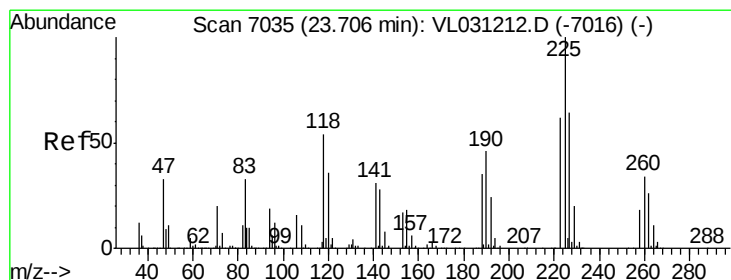
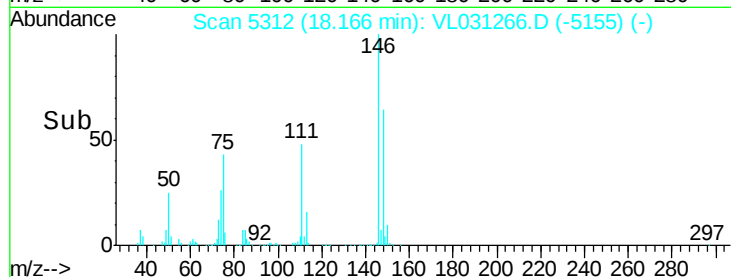
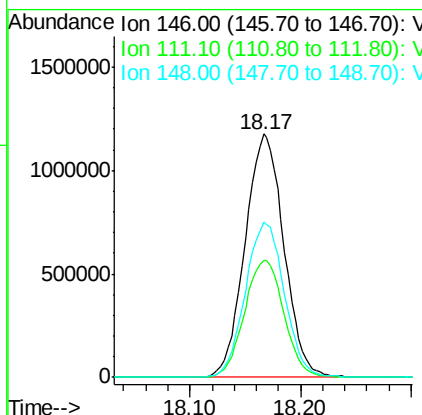
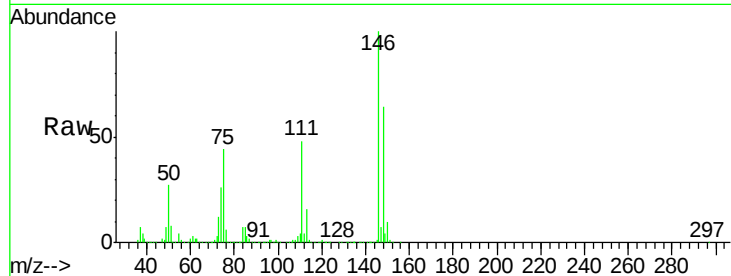
#77
 1,2-Dichlorobenzene
 Concen: 7.72 ppbv
 RT: 18.17 min Scan# 5312
 Delta R.T. 0.00 min
 Lab File: VL031266.D
 Acq: 20 Dec 2017 11:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1220ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.9	23.3	69.8
148	64.4	31.9	95.7

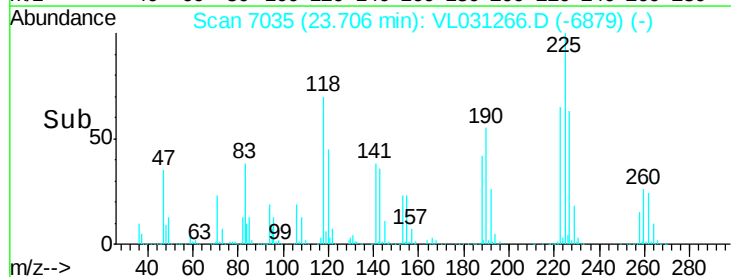
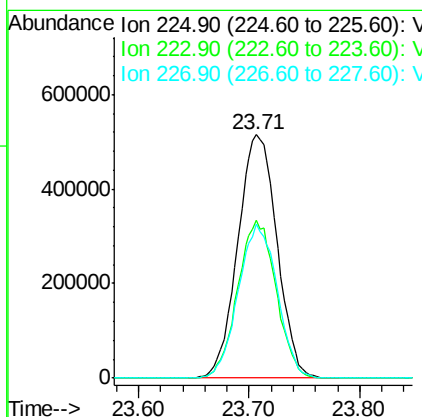
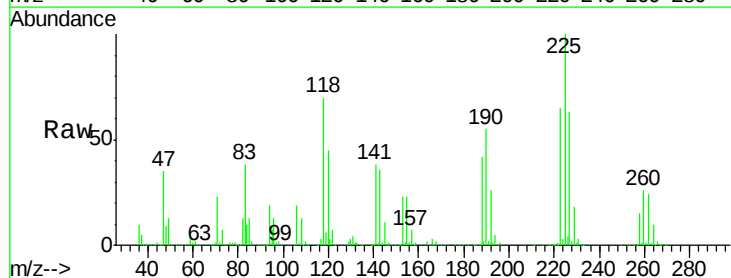
Manual Integrations
 APPROVED

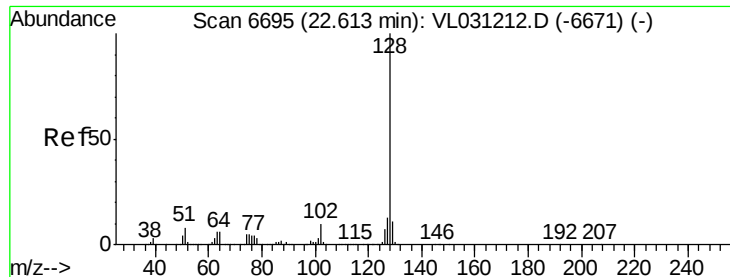
MMDadoda
 12/22/2017 4:54:42 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 14.89 ppbv
 RT: 23.71 min Scan# 7035
 Delta R.T. 0.00 min
 Lab File: VL031266.D
 Acq: 20 Dec 2017 11:51

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.5	50.4	75.6
227	62.6	51.3	76.9





#79

Naphthalene

Concen: 7.71 ppbv

RT: 22.62 min Scan# 6696

Delta R.T. 0.00 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

Instrument :

MSVOA_L

ClientSampleId :

VL1220ABS01

Tot Ion:128 Resp: 3729817

Ion Ratio Lower Upper

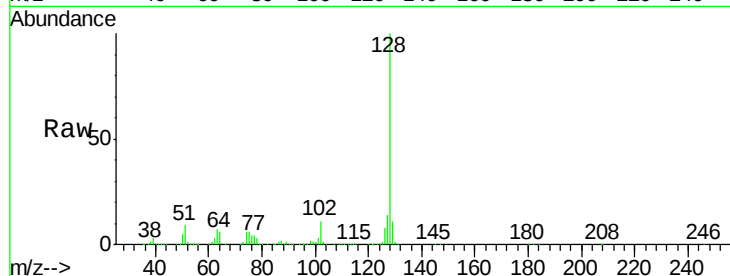
128 100

127 13.6 10.2 15.2

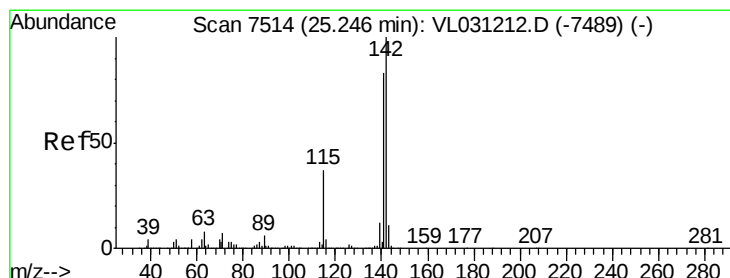
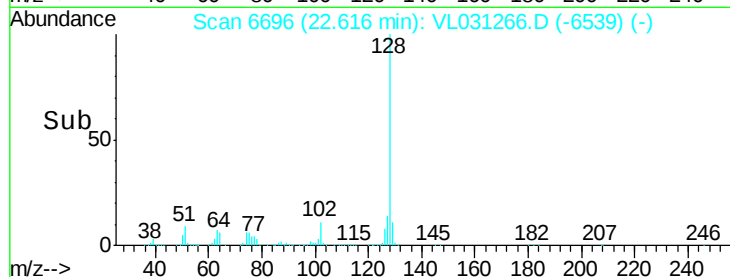
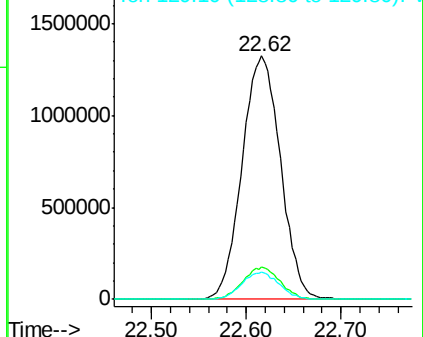
129 11.0 8.9 13.3

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



#80

Naphthalene, 2-methyl-

Concen: 6.27 ppbv

RT: 25.25 min Scan# 7515

Delta R.T. 0.00 min

Lab File: VL031266.D

Acq: 20 Dec 2017 11:51

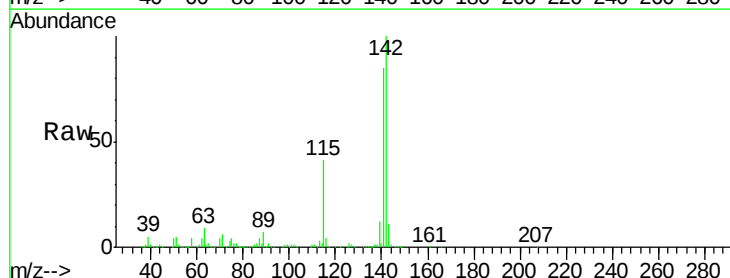
Tgt Ion:142 Resp: 1130928

Ion Ratio Lower Upper

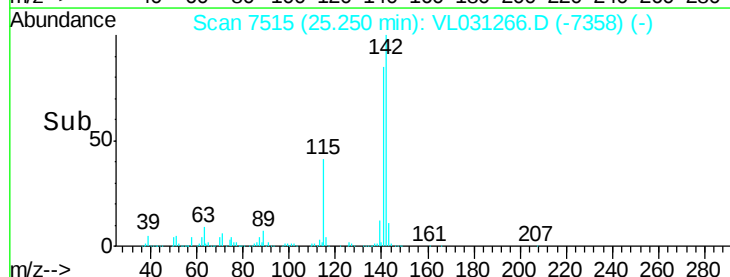
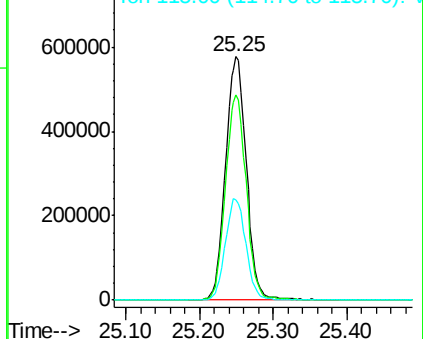
142 100

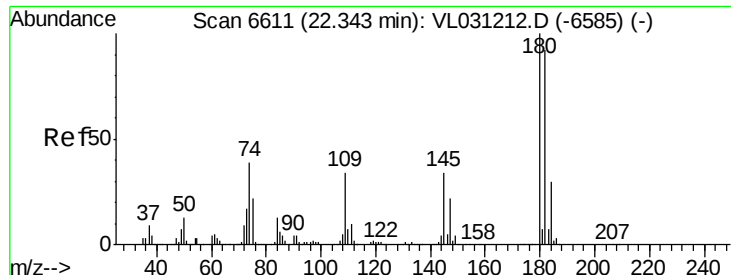
141 83.9 66.8 100.2

115 41.1 29.7 44.5



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





#81
 1,2,4-Trichlorobenzene
 Concen: 7.67 ppbv
 RT: 22.35 min Scan# 6612
 Delta R.T. 0.00 min
 Lab File: VL031266.D
 Acq: 20 Dec 2017 11:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1220ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.4	75.9	113.9
184	30.4	24.2	36.2

Manual Integrations
 APPROVED

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 12/22/2017 4:54:42 PM

