

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL122017\
 Data File : VL031264.D
 Acq On : 20 Dec 2017 9:38
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 12/22/2017 4:54:41 PM

Quant Time: Dec 22 03:48:17 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	1695384	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	4413048	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.42	117	4529412	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.75	95	3268369	10.14	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.18	85	1222338	8.53	ppbv	98
3) Chlorodifluoromethane	3.11	51	2097841	10.88	ppbv	97
4) Chloromethane	3.27	50	1019022	9.79	ppbv	96
5) Vinyl Chloride	3.40	62	1006897	9.35	ppbv	100
6) Bromomethane	3.63	94	676624	10.60	ppbv	98
7) Chloroethane	3.71	64	397459	9.96	ppbv	95
8) Dichlorotetrafluoroethane	3.32	85	1835060	9.23	ppbv	98
9) Propene	3.14	41	929848	9.83	ppbv	100
10) Heptane	8.41	43	2696477	9.36	ppbv	100
11) Trichlorofluoromethane	4.13	101	2606529	11.07	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.68	101	1614763	9.79	ppbv	96
13) Ethanol	3.76	45	223402	8.19	ppbv	100
14) Bromoethene	3.91	108	769284	10.85	ppbv	98
15) Acetone	4.02	43	1915485	8.56	ppbv	99
16) 1,3-Butadiene	3.47	39	881503m	9.16	ppbv	
17) tert-Butyl alcohol	4.48	59	1010135	8.04	ppbv	99
18) 1,1-Dichloroethene	4.48	96	769978	10.42	ppbv	93
19) Isopropyl Alcohol	4.14	45	1325000	9.36	ppbv #	43
20) Methylene Chloride	4.54	84	719700	9.72	ppbv	99
21) Allyl Chloride	4.61	41	1244169	9.45	ppbv	95
22) trans-1,2-Dichloroethene	5.10	96	870404	9.58	ppbv	97
23) Vinyl Acetate	5.30	43	3048251	8.46	ppbv	99
24) 1,1-Dichloroethane	5.23	63	2501048	9.55	ppbv	100
25) Ethyl Acetate	5.92	43	4117129	9.01	ppbv	100
26) Hexane	5.93	57	1986496	9.16	ppbv	96
27) Carbon Disulfide	4.76	76	2083517	9.60	ppbv	100
28) Methyl tert-Butyl Ether	5.25	73	2420124	8.54	ppbv	98
29) Chloroform	6.00	83	2948560	10.07	ppbv	99
30) Cyclohexane	7.41	84	1695261	8.88	ppbv	99
31) cis-1,2-Dichloroethene	5.79	61	1890281	9.61	ppbv	99
32) 1,1,1-Trichloroethane	6.78	97	3007063	9.61	ppbv	98
34) 2-Butanone	5.47	43	2869614	9.21	ppbv	99
35) Carbon Tetrachloride	7.30	117	3149734	9.96	ppbv	99
36) Benzene	7.17	78	4164741	8.91	ppbv	98
37) 1,2-Dichloroethane	6.57	62	2519837	9.77	ppbv	98
38) Trichloroethene	8.13	130	1573908	8.63	ppbv	98
39) 1,2-Dichloropropane	7.90	63	1513953	9.16	ppbv	96
40) 1,4-Dioxane	8.12	88	629049	10.54	ppbv #	92
41) Tetrahydrofuran	6.30	42	1630012	9.30	ppbv	99
42) Bromodichloromethane	8.08	83	3185885	10.47	ppbv	99
43) Methyl Methacrylate	8.30	69	1553306	9.92	ppbv	98

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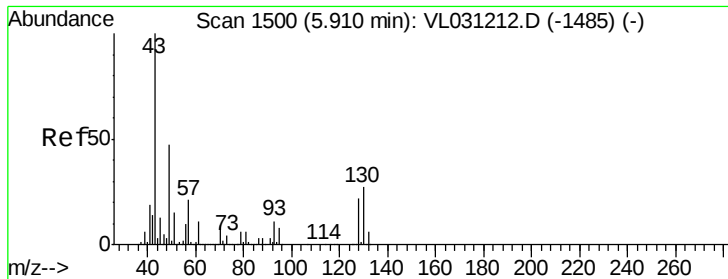
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.16	57	6260504	8.86	ppbv	99
45) t-1,3-Dichloropropene	9.58	75	2072178	9.67	ppbv	99
46) cis-1,3-Dichloropropene	9.00	75	2640143	9.80	ppbv	99
47) 1,1,2-Trichloroethane	9.79	97	1682422	9.81	ppbv	98
48) Dibromochloromethane	10.63	129	2797158	10.44	ppbv	100
49) Bromoform	13.38	173	1998608	10.11	ppbv	100
50) 4-Methyl-2-Pentanone	9.04	43	3658689	9.59	ppbv	99
51) 2-Hexanone	10.44	43	3622983	9.95	ppbv #	98
52) Tetrachloroethene	11.55	164	1414528	8.20	ppbv	97
53) Toluene	10.12	91	4763718	9.39	ppbv	99
54) 1,2-Dibromoethane	10.94	107	2535828	9.76	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.46	131	1859834	9.20	ppbv	100
57) Chlorobenzene	12.48	112	3651969	8.65	ppbv	99
58) Ethyl Benzene	13.04	91	6359165	8.50	ppbv	99
59) m/p-Xylene	13.33	91	10227799m	17.08	ppbv	
60) o-Xylene	14.03	91	5105080	8.46	ppbv	99
61) Styrene	13.86	104	1490572	8.61	ppbv	98
62) Isopropylbenzene	15.00	105	6648665	8.40	ppbv	100
63) 1,1,2,2-Tetrachloroethane	14.01	83	3290926	8.14	ppbv	98
64) n-propylbenzene	15.90	120	1780077	8.48	ppbv	95
65) tert-Butylbenzene	17.08	119	5727905	8.17	ppbv	99
66) Benzyl Chloride	17.34	91	507431m	6.72	ppbv	
67) sec-Butylbenzene	17.63	105	7971497	8.27	ppbv	100
69) p-Isopropyltoluene	17.99	119	6609863	8.22	ppbv	99
70) n-Butylbenzene	18.89	91	6610316	8.53	ppbv	99
71) 2-Chlorotoluene	15.79	91	5094380	8.67	ppbv	100
72) 4-Ethyltoluene	16.18	105	5577955	8.44	ppbv	99
73) 1,3,5-Trimethylbenzene	16.33	105	4935280	8.39	ppbv	99
74) 1,2,4-Trimethylbenzene	17.10	105	5085835	8.22	ppbv	98
75) 1,3-Dichlorobenzene	17.34	146	3217896	8.20	ppbv	99
76) 1,4-Dichlorobenzene	17.48	146	3266961	8.24	ppbv	98
77) 1,2-Dichlorobenzene	18.16	146	3152084	8.22	ppbv	98
78) Hexachloro-1,3-Butadiene	23.71	225	1443480	16.39	ppbv	99
79) Naphthalene	22.61	128	4124621	8.24	ppbv	99
80) Naphthalene, 2-methyl-	25.25	142	1789276	9.59	ppbv	98
81) 1,2,4-Trichlorobenzene	22.34	180	1965968	8.43	ppbv	100

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.91 min Scan# 1500

Delta R.T. 0.00 min

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Acq: 20 Dec 2017 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 49 Resp: 1695384

Ion Ratio Lower Upper

49 100

128 48.5 23.2 69.5

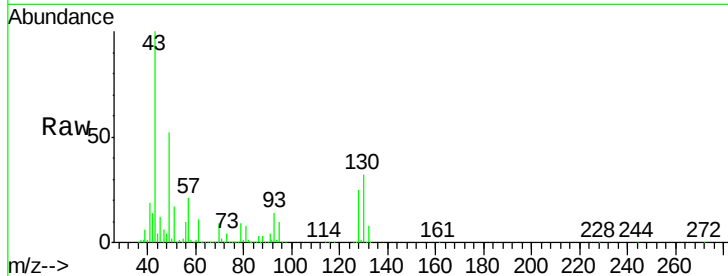
130 62.0 29.6 88.8

Manual Integrations

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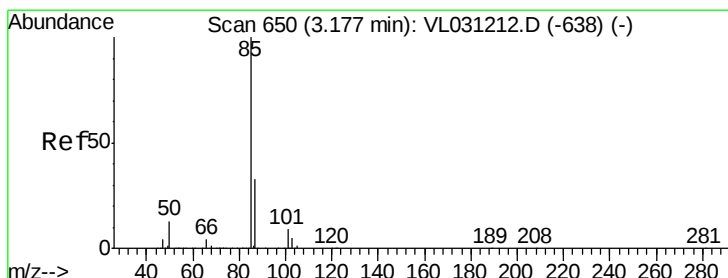
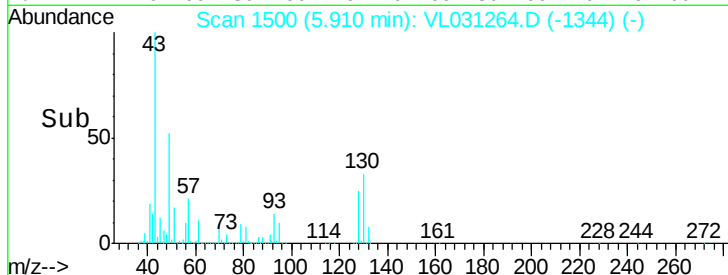
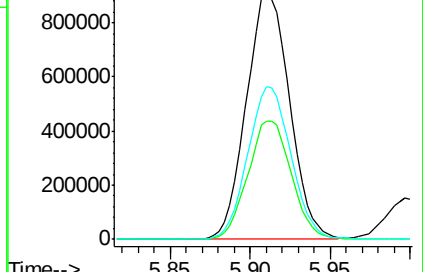
12/22/2017 4:54:41 PM



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: 8.53 ppbv

RT: 3.18 min Scan# 650

Delta R.T. 0.00 min

Lab File: VL031264.D

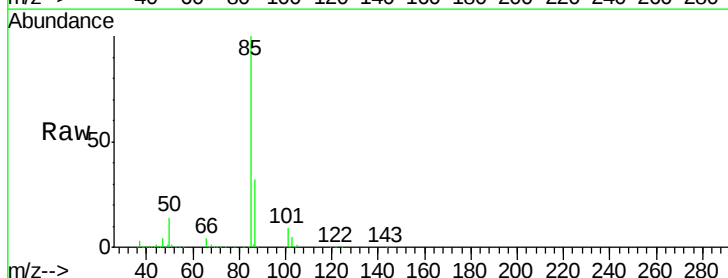
Acq: 20 Dec 2017 9:38

Tgt Ion: 85 Resp: 1222338

Ion Ratio Lower Upper

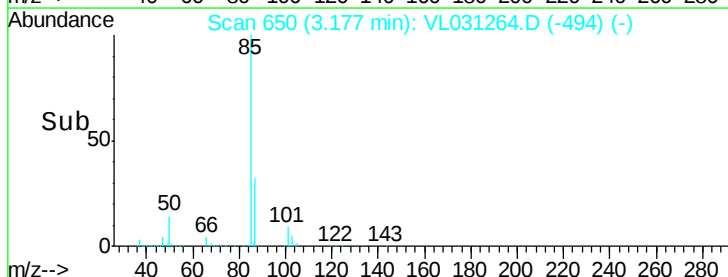
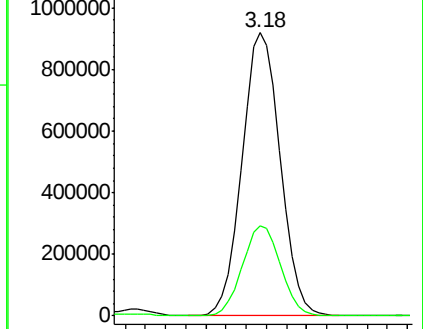
85 100

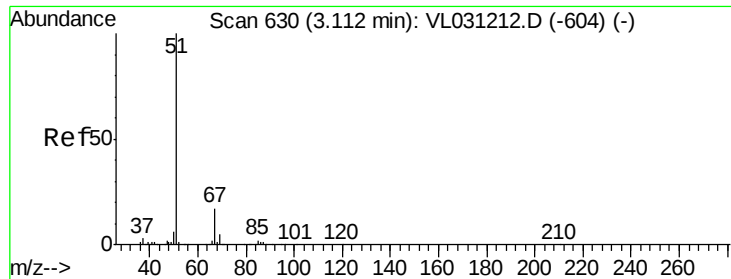
87 31.8 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 10.88 ppbv

RT: 3.11 min Scan# 630

Delta R.T. 0.00 min

Lab File: VL031264.D

Acq: 20 Dec 2017 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 51 Resp: 2097841

Ion Ratio Lower Upper

51 100

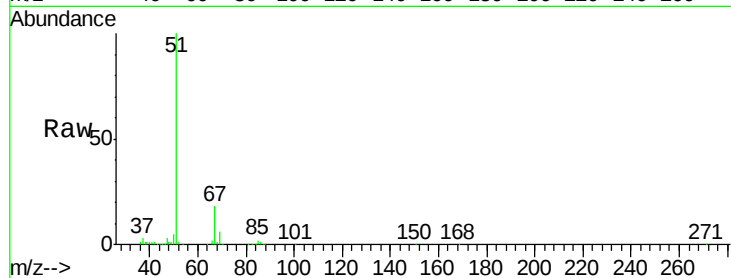
67 18.3 13.8 20.6

Manual Integrations

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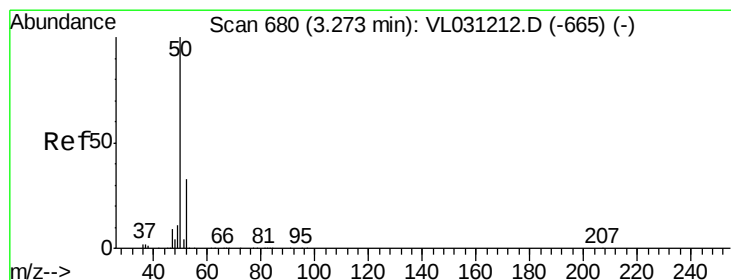
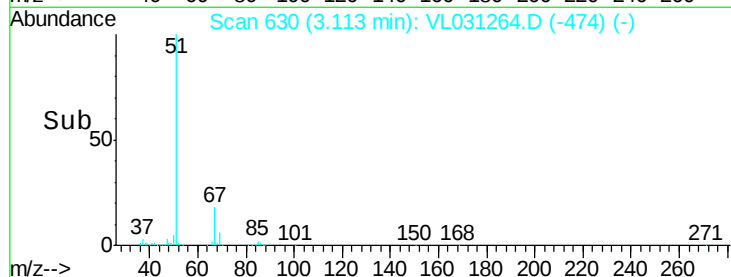
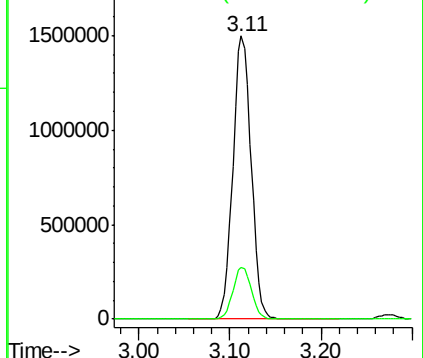
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.79 ppbv

RT: 3.27 min Scan# 680

Delta R.T. 0.00 min

Lab File: VL031264.D

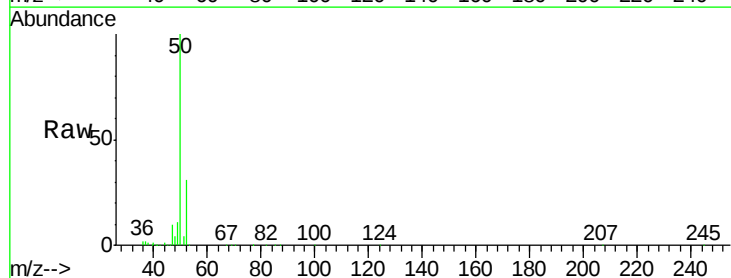
Acq: 20 Dec 2017 9:38

Tgt Ion: 50 Resp: 1019022

Ion Ratio Lower Upper

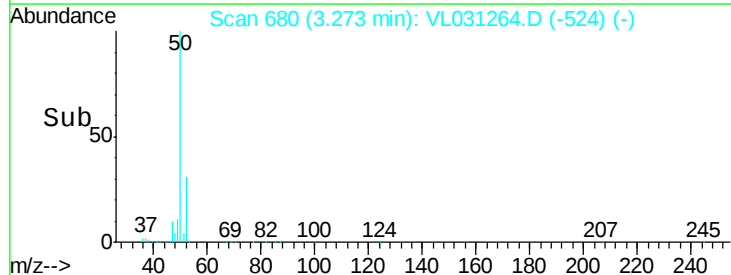
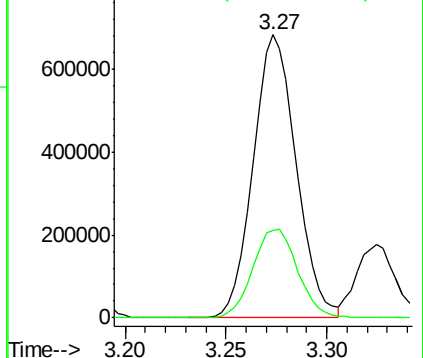
50 100

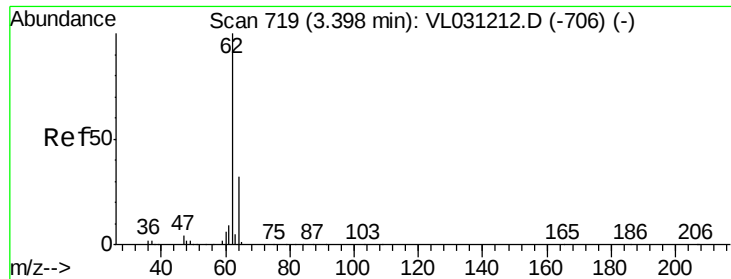
52 31.0 26.5 39.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.35 ppbv

RT: 3.40 min Scan# 719

Delta R.T. 0.00 min

Lab File: VL031264.D

Acq: 20 Dec 2017 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 1006897

Ion Ratio Lower Upper

62 100

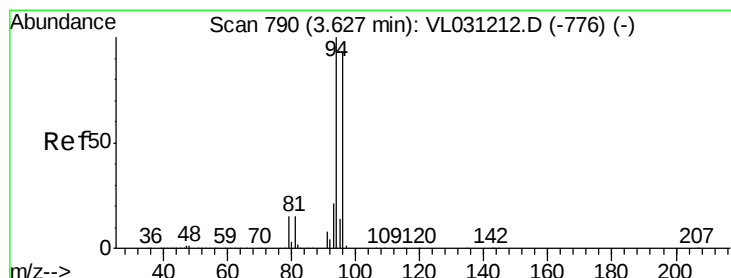
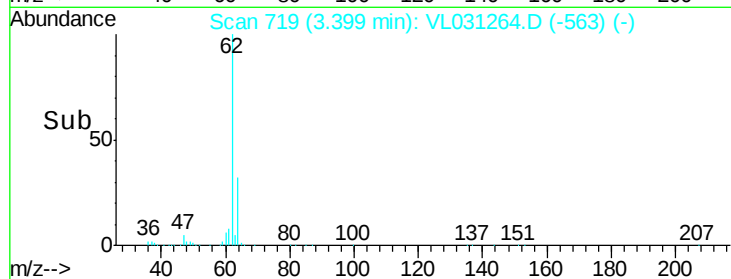
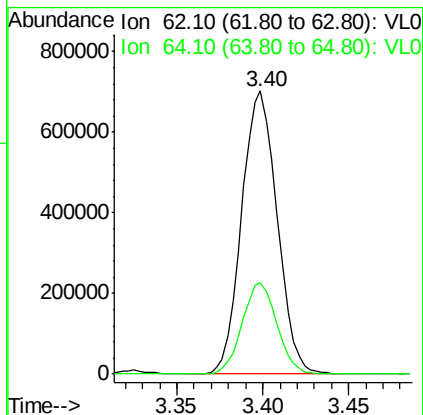
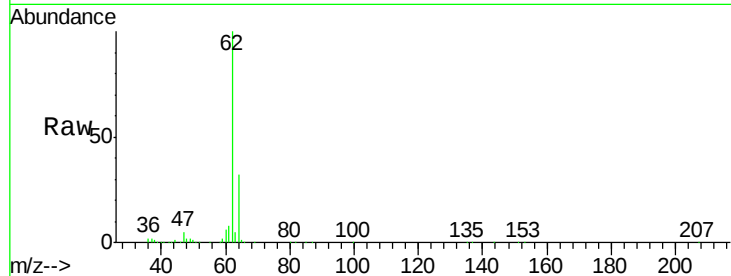
64 32.2 25.9 38.9

Manual Integrations

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#6

Bromomethane

Concen: 10.60 ppbv

RT: 3.63 min Scan# 790

Delta R.T. 0.00 min

Lab File: VL031264.D

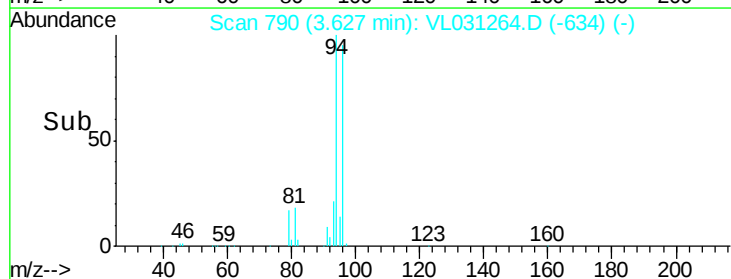
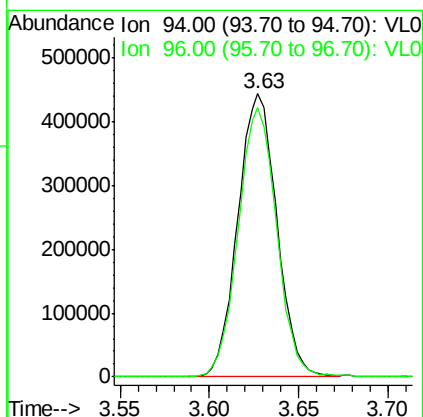
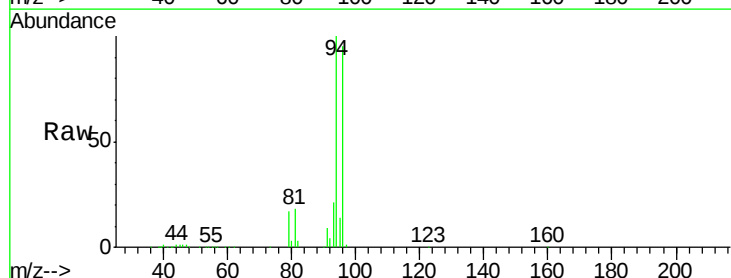
Acq: 20 Dec 2017 9:38

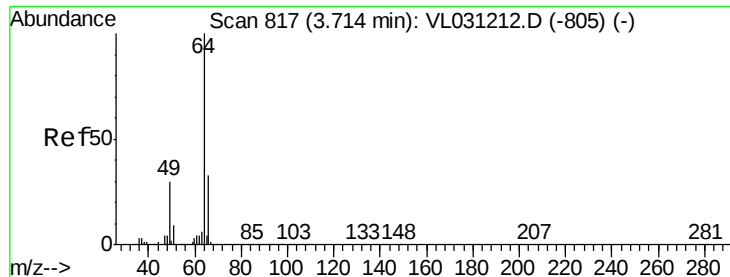
Tgt Ion: 94 Resp: 676624

Ion Ratio Lower Upper

94 100

96 95.2 74.4 111.6





#7

Chloroethane

Concen: 9.96 ppbv

RT: 3.71 min Scan# 817

Delta R.T. 0.00 min

Lab File: VL031264.D

Acq: 20 Dec 2017 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 397459

Ion Ratio Lower Upper

64 100

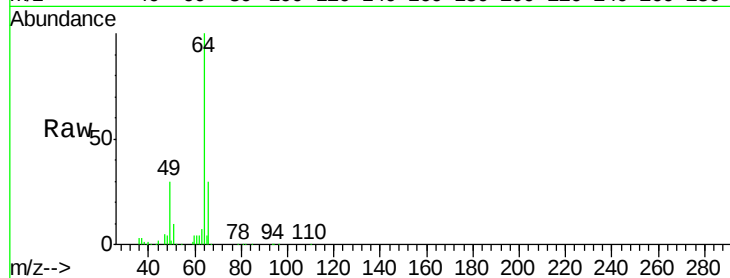
66 29.7 26.2 39.2

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.71

250000

200000

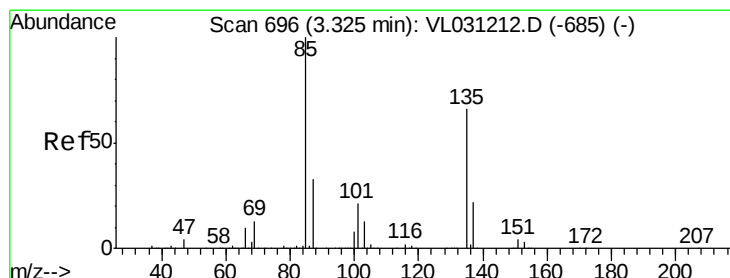
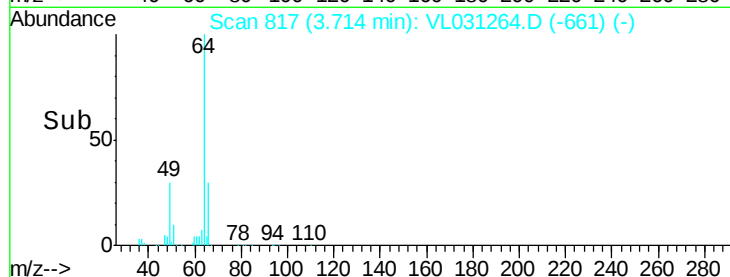
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.23 ppbv

RT: 3.32 min Scan# 696

Delta R.T. 0.00 min

Lab File: VL031264.D

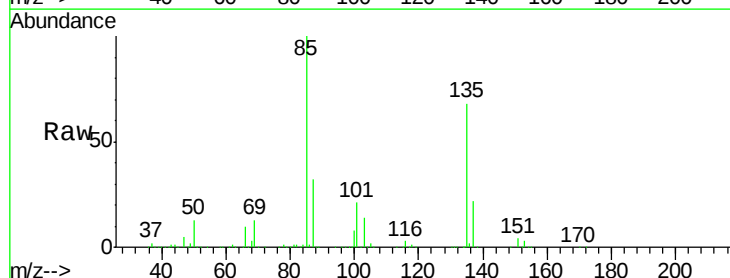
Acq: 20 Dec 2017 9:38

Tgt Ion: 85 Resp: 1835060

Ion Ratio Lower Upper

85 100

135 69.0 54.0 81.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.32

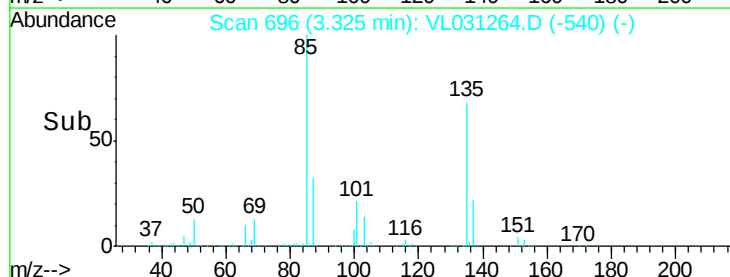
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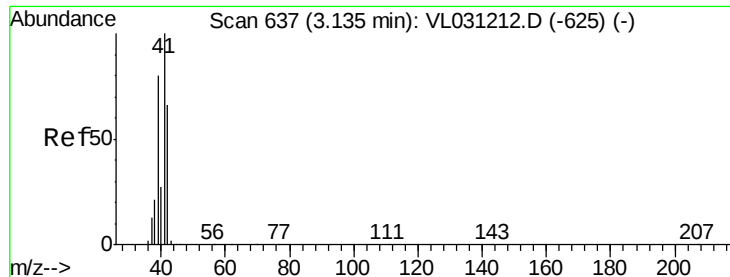
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500000

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Time-->





#9

Propene

Concen: 9.83 ppbv

RT: 3.14 min Scan# 637

Delta R.T. 0.00 min

Lab File: VL031264.D

Acq: 20 Dec 2017 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 929848

Ion Ratio Lower Upper

41 100

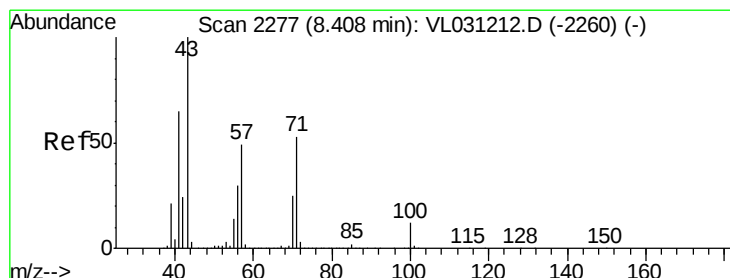
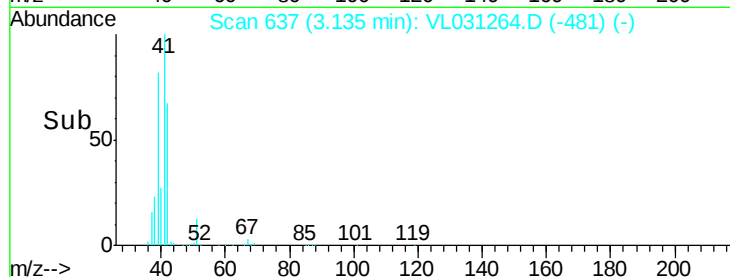
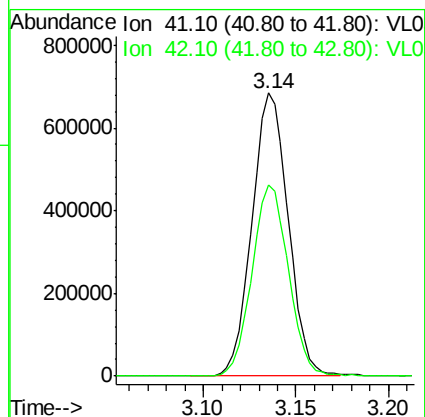
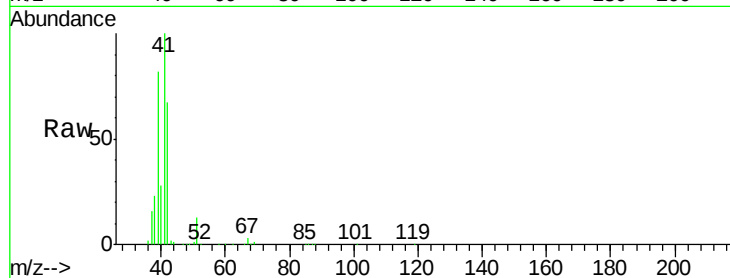
42 68.2 54.3 81.5

Manual Integrations

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#10

Heptane

Concen: 9.36 ppbv

RT: 8.41 min Scan# 2278

Delta R.T. 0.00 min

Lab File: VL031264.D

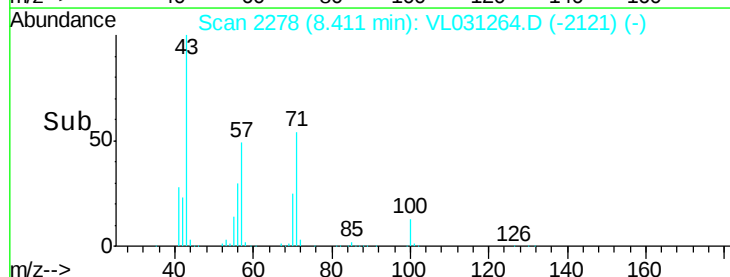
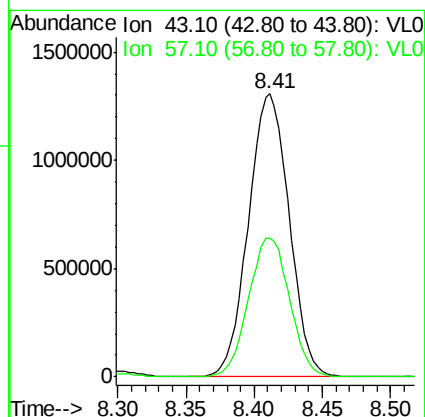
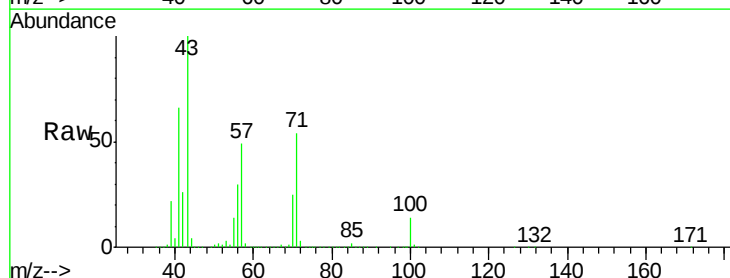
Acq: 20 Dec 2017 9:38

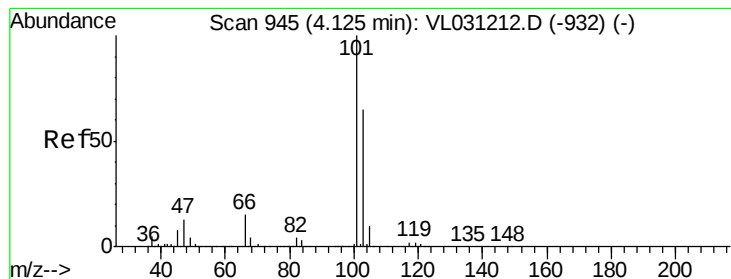
Tgt Ion: 43 Resp: 2696477

Ion Ratio Lower Upper

43 100

57 49.5 39.8 59.8





#11

Trichlorofluoromethane

Concen: 11.07 ppbv

RT: 4.13 min Scan# 946

Delta R.T. 0.00 min

Lab File: VL031264.D

Acq: 20 Dec 2017 9:38

Instrument :

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ClientSampleId :

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Tot Ion:101 Resp: 2606529

Ion Ratio Lower Upper

101 100

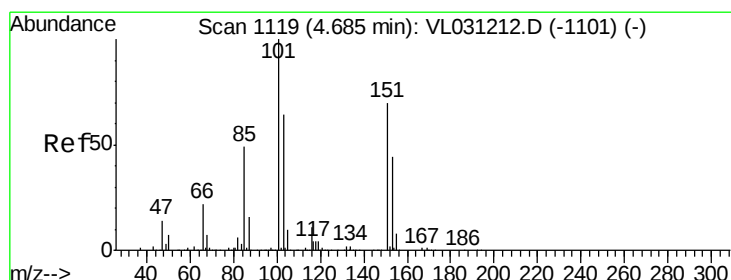
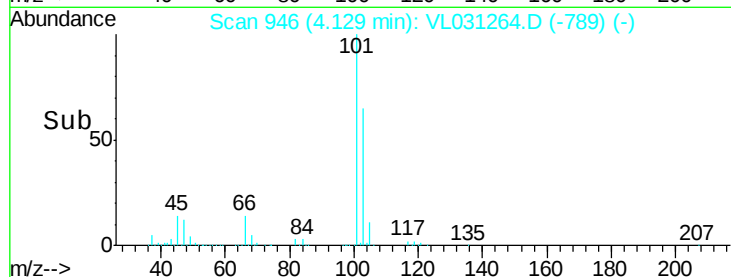
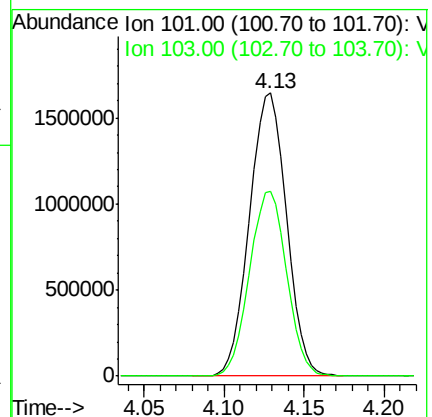
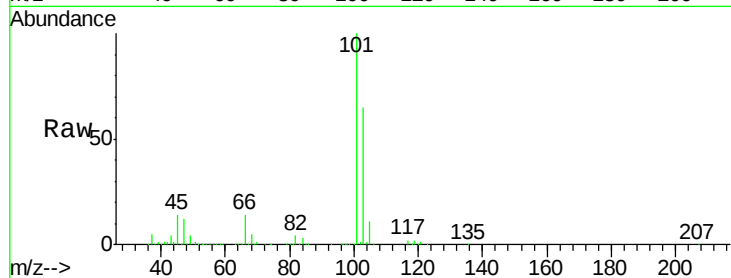
103 65.1 51.8 77.8

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.79 ppbv

RT: 4.68 min Scan# 1119

Delta R.T. 0.00 min

Lab File: VL031264.D

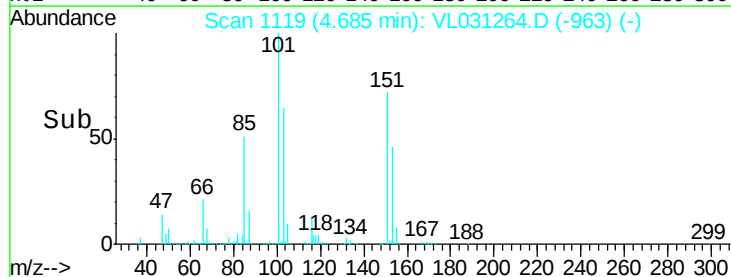
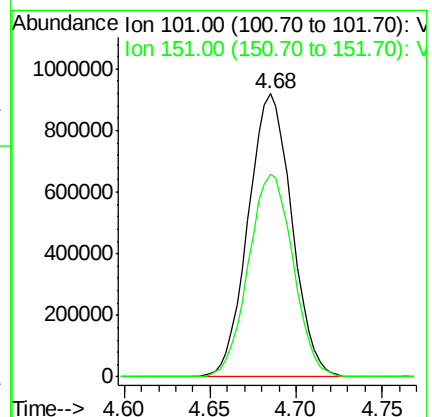
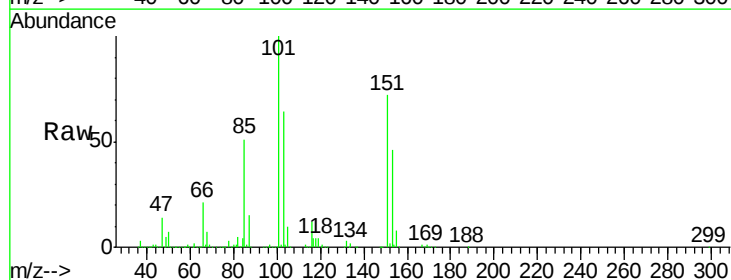
Acq: 20 Dec 2017 9:38

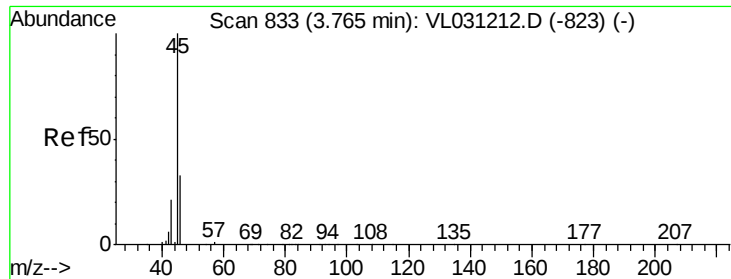
Tgt Ion:101 Resp: 1614763

Ion Ratio Lower Upper

101 100

151 73.7 56.5 84.7





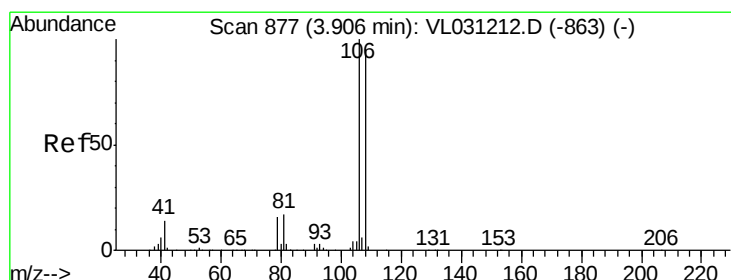
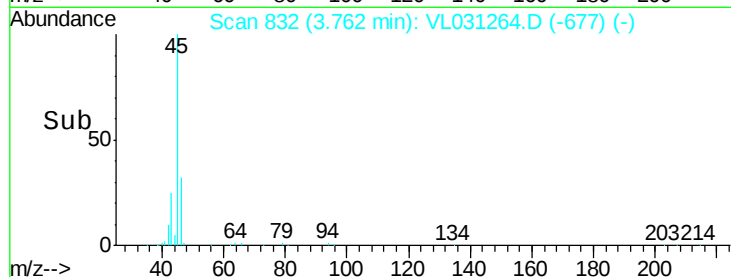
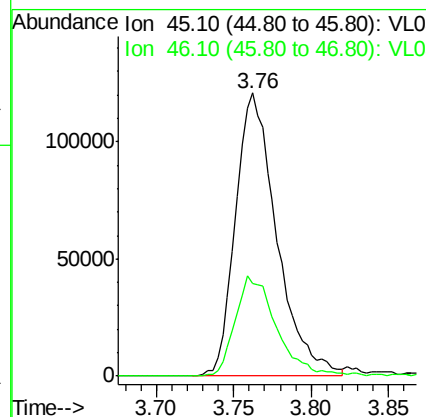
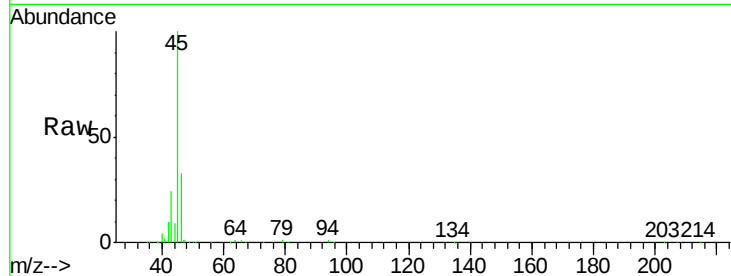
#13
Ethanol
Concen: 8.19 ppbv
RT: 3.76 min Scan# 832
Delta R.T. -0.00 min
Lab File: VL031264.D
Acq: 20 Dec 2017 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	45	Resp	223402
Ion Ratio	100	Lower	Upper
46	36.5	14.6	58.4

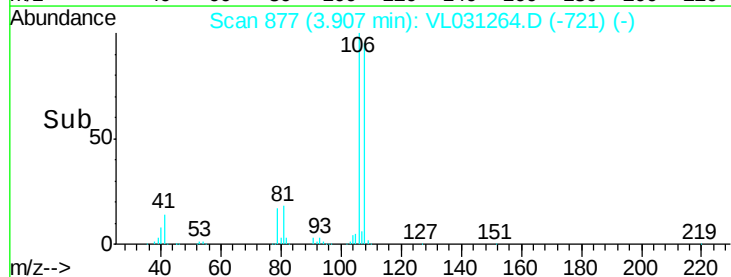
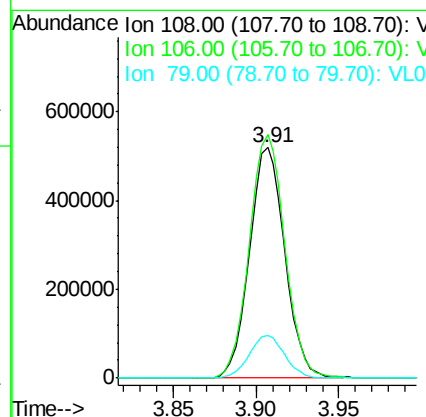
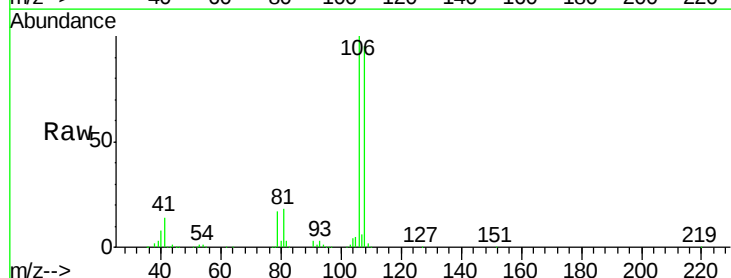
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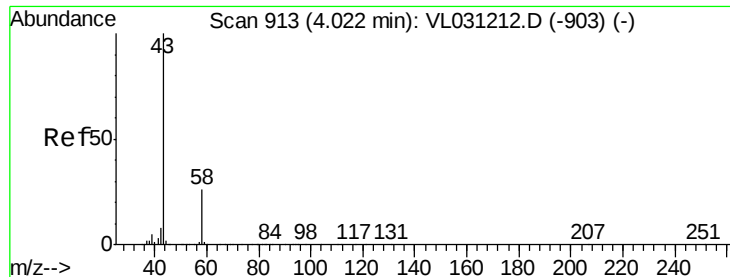
MMDadoda
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#14
Bromoethene
Concen: 10.85 ppbv
RT: 3.91 min Scan# 877
Delta R.T. 0.00 min
Lab File: VL031264.D
Acq: 20 Dec 2017 9:38

Tgt Ion	108	Resp	769284
Ion Ratio	100	Lower	Upper
106	106.6	86.5	129.7
79	18.8	14.2	21.4





#15

Acetone

Concen: 8.56 ppbv

RT: 4.02 min Scan# 912

Delta R.T. -0.00 min

Lab File: VL031264.D

Acq: 20 Dec 2017 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1915485

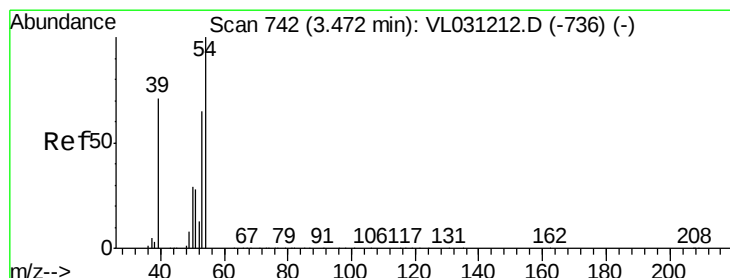
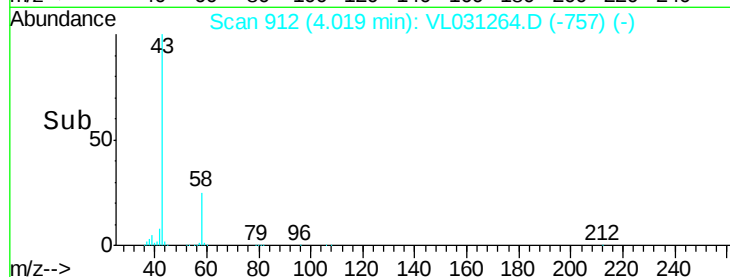
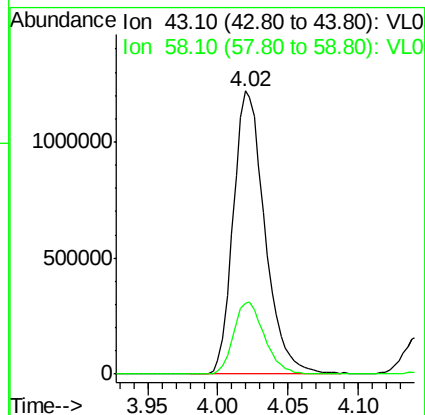
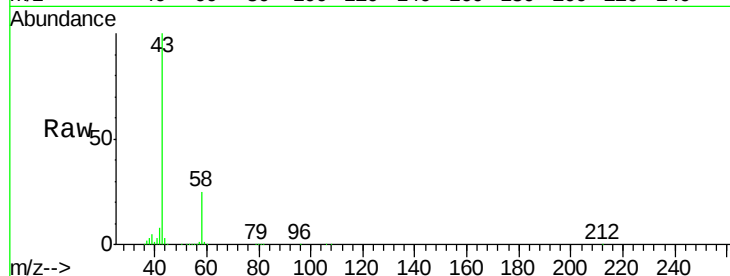
Ion Ratio Lower Upper

43 100

58 25.0 20.3 30.5

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#16

1,3-Butadiene

Concen: 9.16 ppbv m

RT: 3.47 min Scan# 742

Delta R.T. 0.00 min

Lab File: VL031264.D

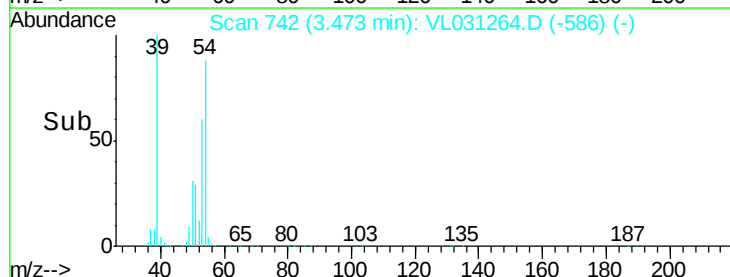
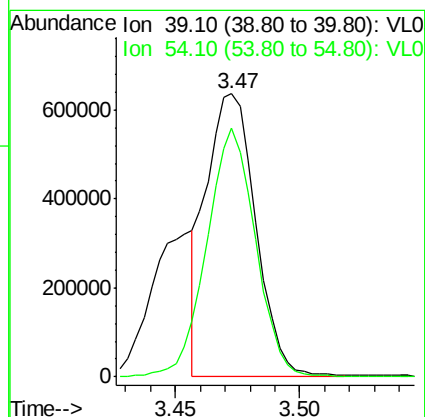
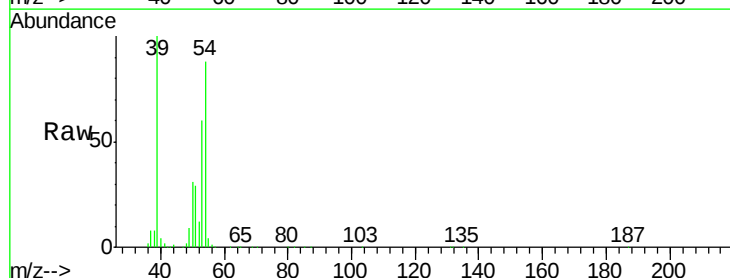
Acq: 20 Dec 2017 9:38

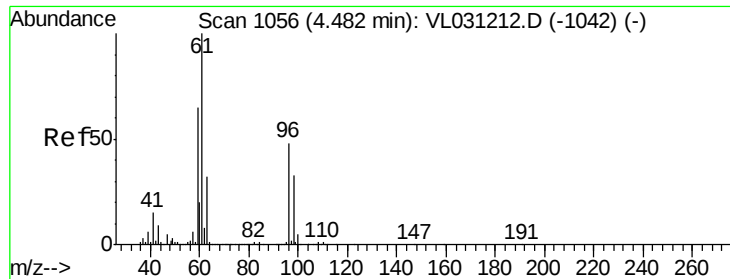
Tgt Ion: 39 Resp: 881503

Ion Ratio Lower Upper

39 100

54 87.1 66.4 99.6





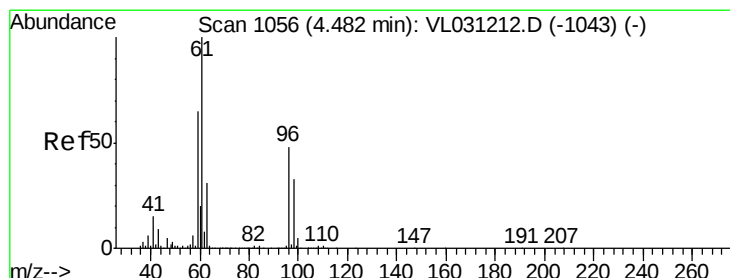
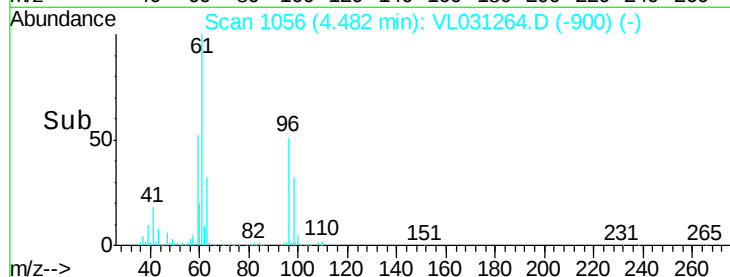
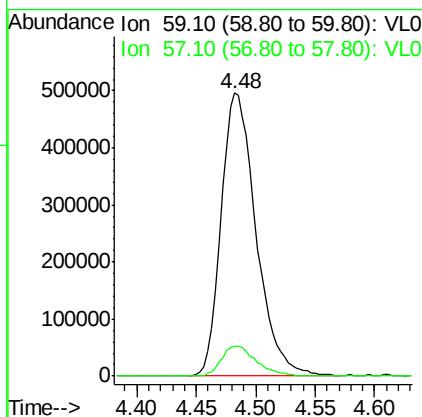
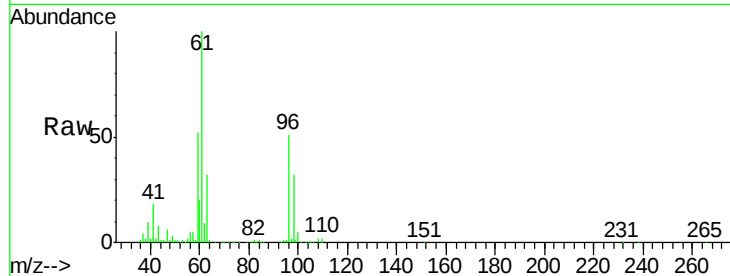
#17
 tert-Butyl alcohol
 Concen: 8.04 ppbv
 RT: 4.48 min Scan# 1056
 Delta R.T. 0.00 min
 Lab File: VL031264.D
 Acq: 20 Dec 2017 9:38

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010

Tot Ion: 59 Resp: 1010135
 Ion Ratio Lower Upper
 59 100
 57 10.7 8.2 12.2

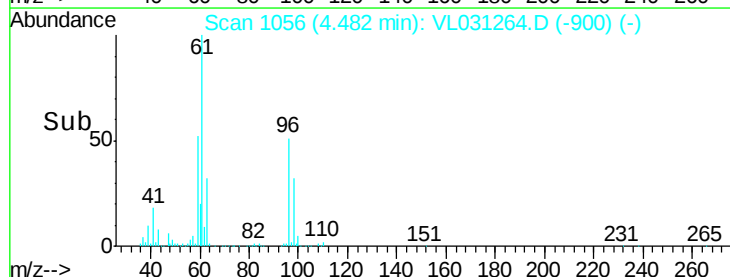
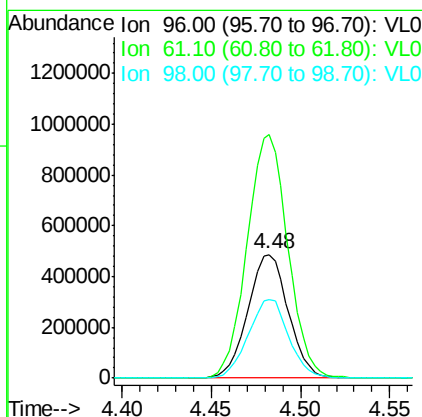
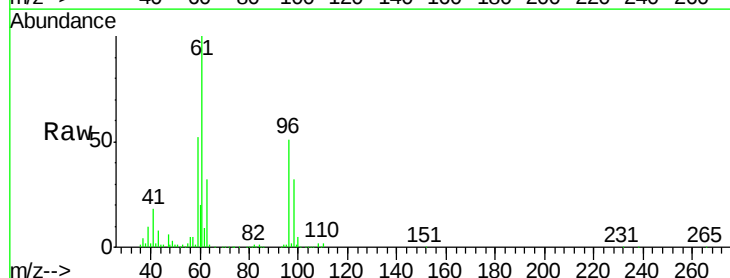
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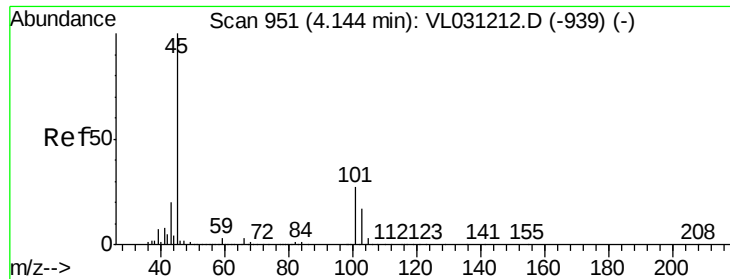
MMDadoda
 12/22/2017 4:54:41 PM



#18
 1,1-Dichloroethene
 Concen: 10.42 ppbv
 RT: 4.48 min Scan# 1056
 Delta R.T. 0.00 min
 Lab File: VL031264.D
 Acq: 20 Dec 2017 9:38

Tgt Ion: 96 Resp: 769978
 Ion Ratio Lower Upper
 96 100
 61 196.8 166.8 250.2
 98 63.5 55.0 82.6





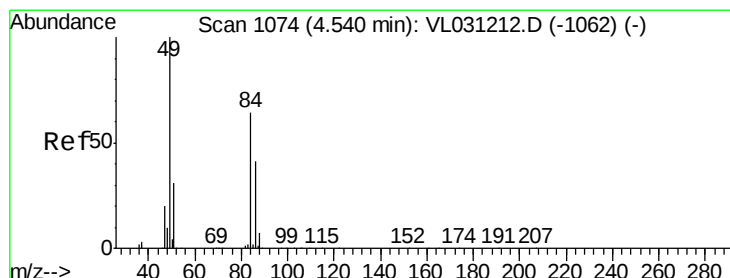
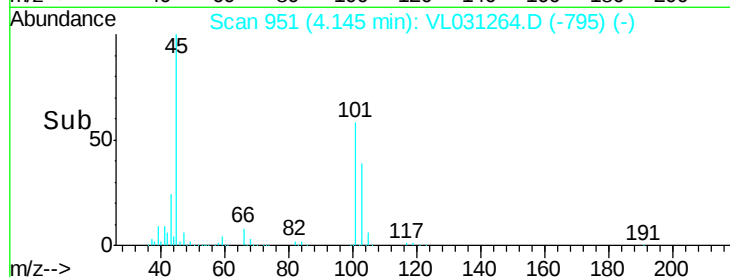
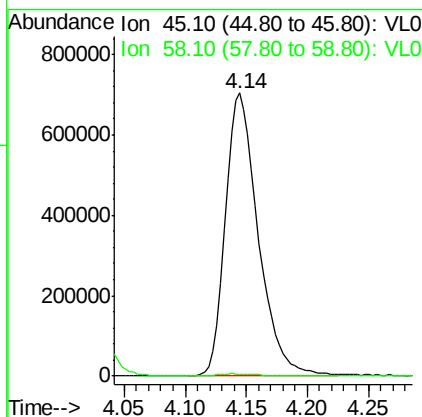
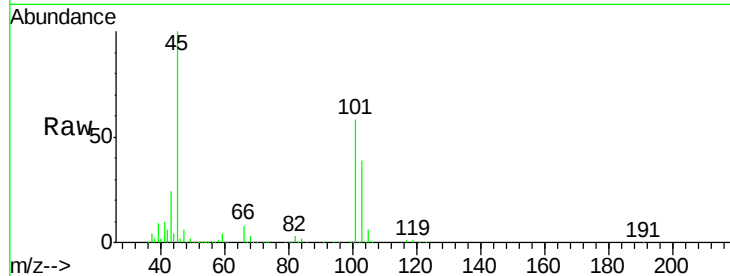
#19
Isopropyl Alcohol
Concen: 9.36 ppbv
RT: 4.14 min Scan# 951
Delta R.T. 0.00 min
Lab File: VL031264.D
Acq: 20 Dec 2017 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 45 Resp: 1325000
Ion Ratio Lower Upper
45 100
58 1.2 27.2 40.8#

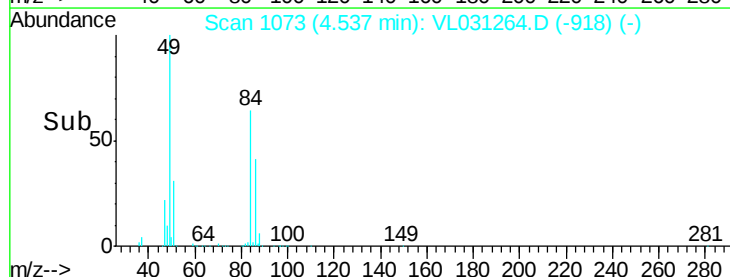
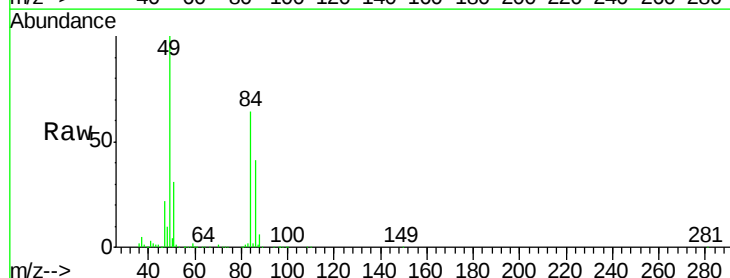
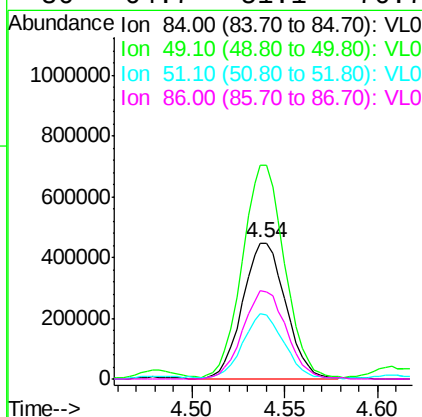
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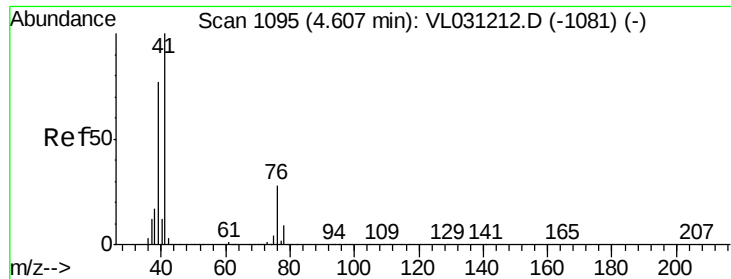
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#20
Methylene Chloride
Concen: 9.72 ppbv
RT: 4.54 min Scan# 1073
Delta R.T. -0.00 min
Lab File: VL031264.D
Acq: 20 Dec 2017 9:38

Tgt Ion: 84 Resp: 719700
Ion Ratio Lower Upper
84 100
49 155.5 125.8 188.6
51 47.5 39.3 58.9
86 64.7 51.1 76.7





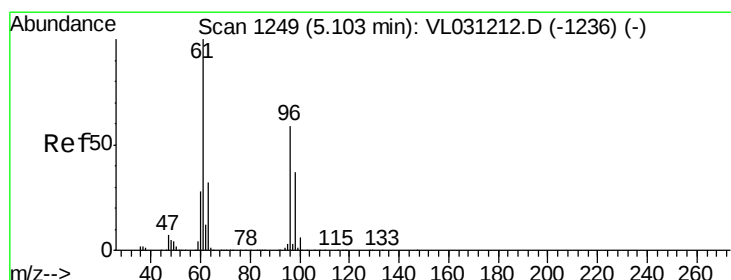
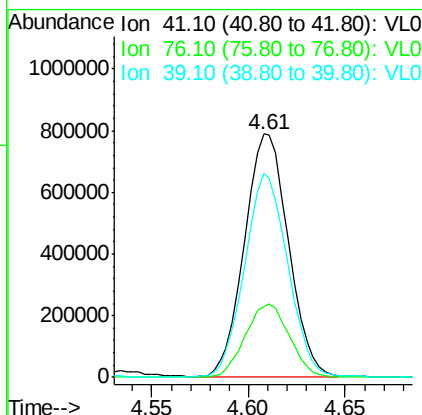
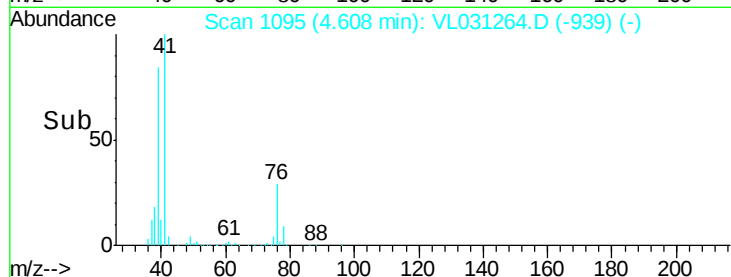
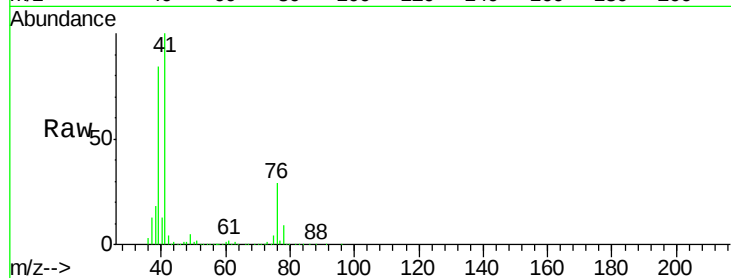
#21
Allvl Chloride
Concen: 9.45 ppbv
RT: 4.61 min Scan# 1095
Delta R.T. 0.00 min
Lab File: VL031264.D
Acq: 20 Dec 2017 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.6	22.9	34.3
39	83.0	62.6	93.8

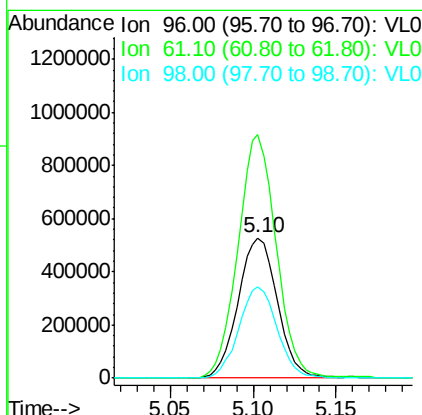
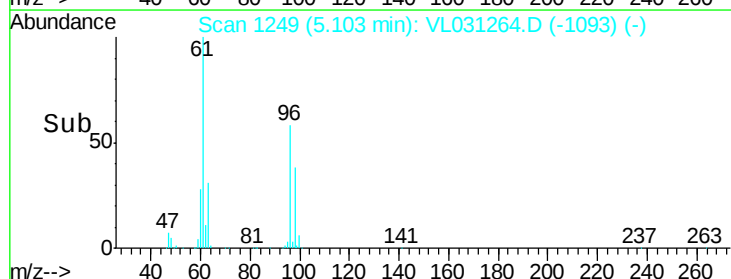
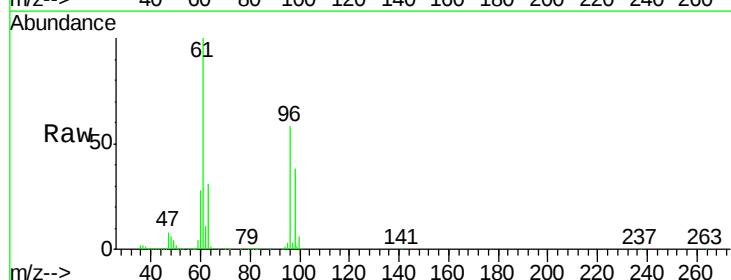
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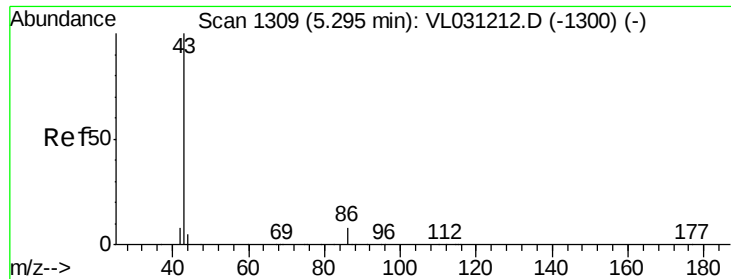
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#22
trans-1,2-Dichloroethene
Concen: 9.58 ppbv
RT: 5.10 min Scan# 1249
Delta R.T. 0.00 min
Lab File: VL031264.D
Acq: 20 Dec 2017 9:38

Tgt Ion	Ratio	Lower	Upper
96	100		
61	173.5	135.0	202.4
98	65.5	50.5	75.7





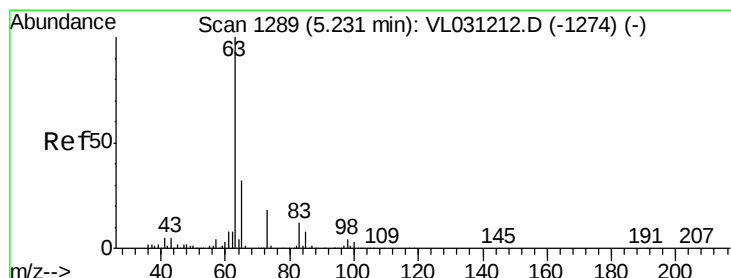
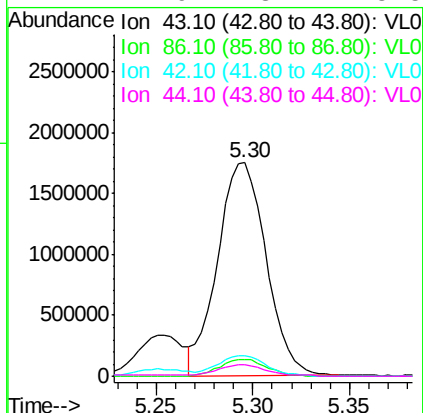
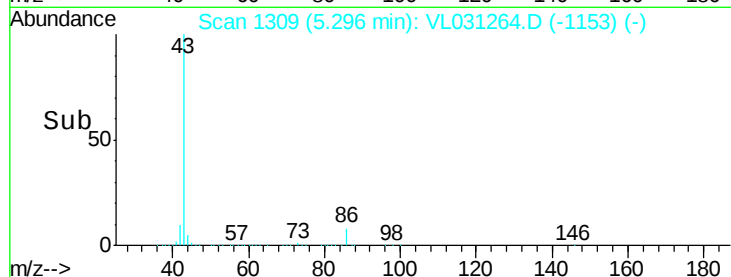
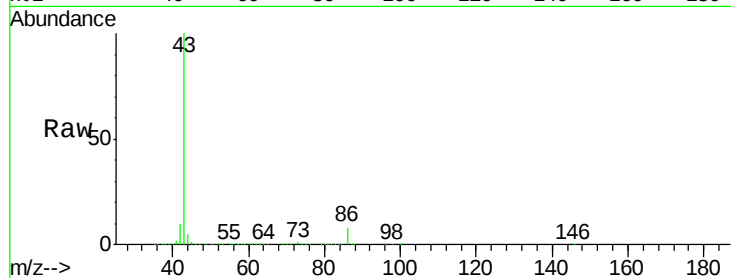
#23
 Vinyl Acetate
 Concen: 8.46 ppbv
 RT: 5.30 min Scan# 1309
 Delta R.T. 0.00 min
 Lab File: VL031264.D
 Acq: 20 Dec 2017 9:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	43	Resp	3048251
Ion	Ratio	Lower	Upper
43	100		
86	7.9	5.9	8.9
42	9.7	7.3	10.9
44	4.9	3.7	5.5

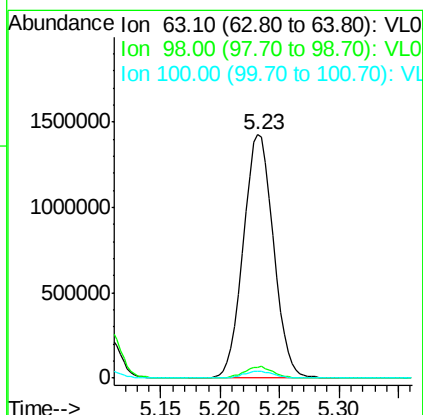
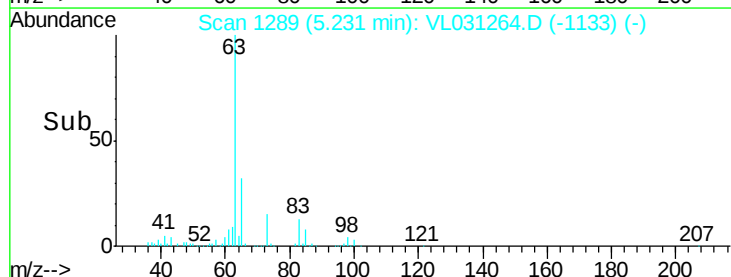
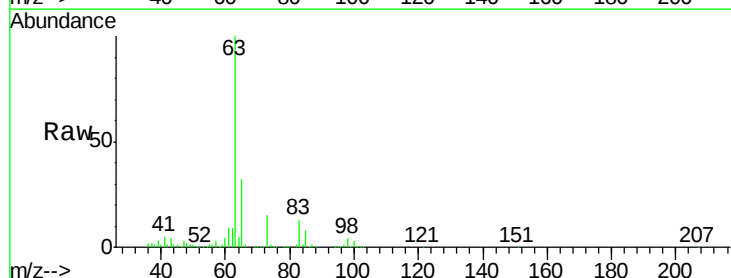
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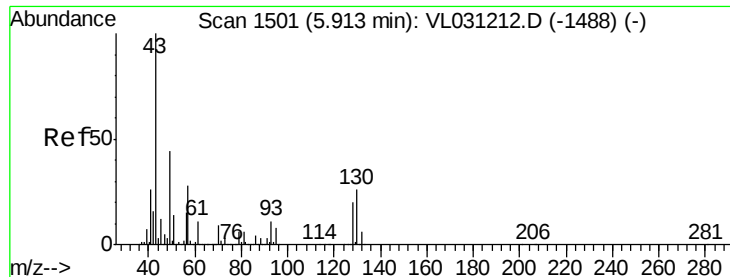
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#24
 1,1-Dichloroethane
 Concen: 9.55 ppbv
 RT: 5.23 min Scan# 1289
 Delta R.T. 0.00 min
 Lab File: VL031264.D
 Acq: 20 Dec 2017 9:38

Tgt Ion	63	Resp	2501048
Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.3	6.8
100	2.7	1.4	4.2





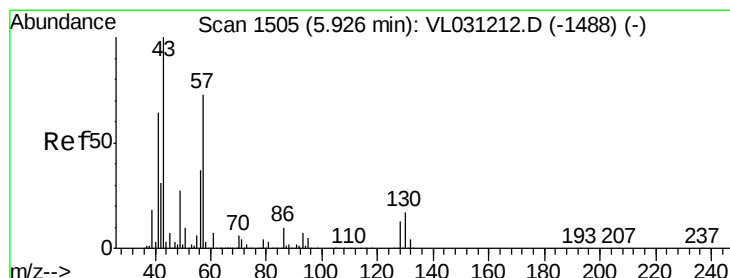
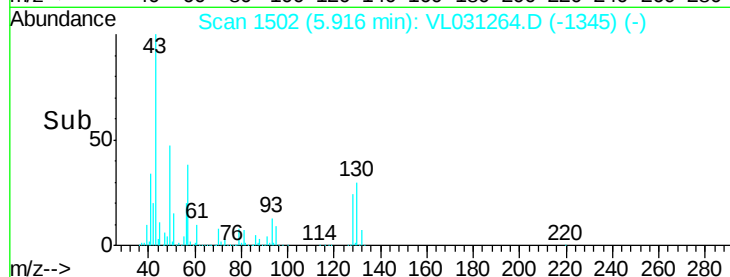
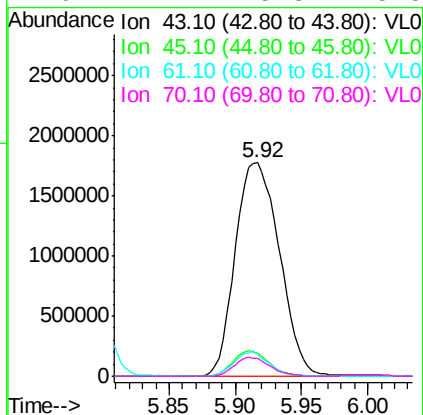
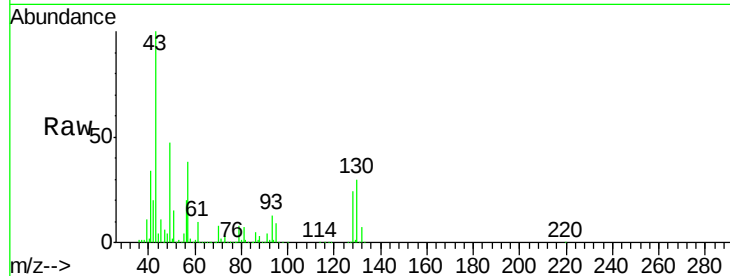
#25
Ethyl Acetate
Concen: 9.01 ppbv
RT: 5.92 min Scan# 1502
Delta R.T. 0.00 min
Lab File: VL031264.D
Acq: 20 Dec 2017 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	9.8	8.0	12.0	
61	9.1	7.4	11.0	
70	7.2	5.8	8.8	

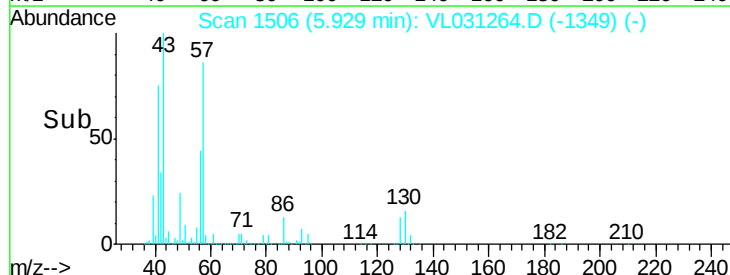
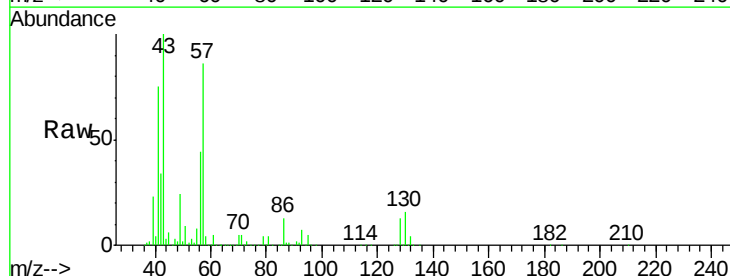
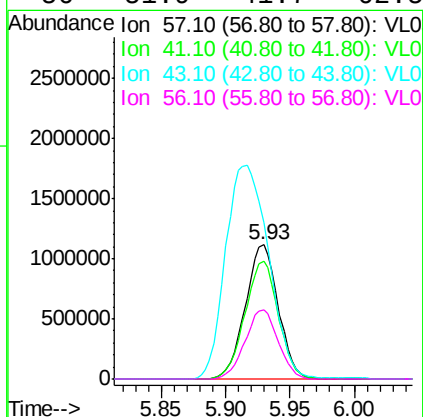
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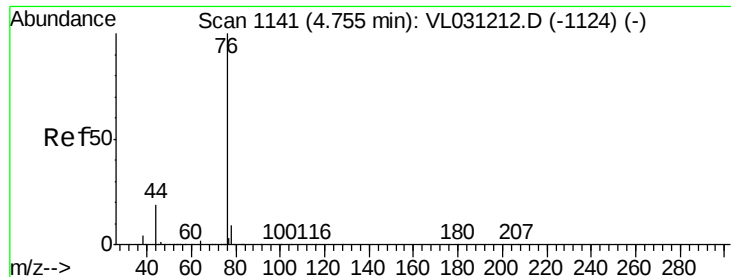
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#26
Hexane
Concen: 9.16 ppbv
RT: 5.93 min Scan# 1506
Delta R.T. 0.00 min
Lab File: VL031264.D
Acq: 20 Dec 2017 9:38

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	89.7	70.3	105.5	
43	207.8	173.8	260.8	
56	51.9	41.7	62.5	





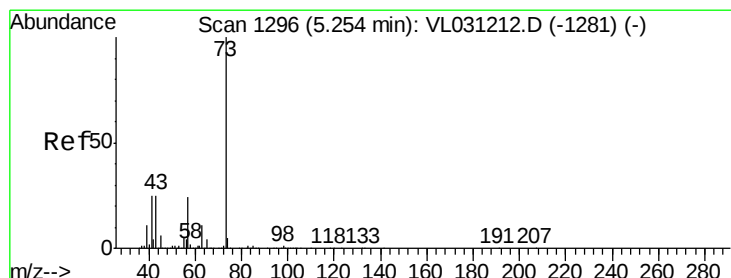
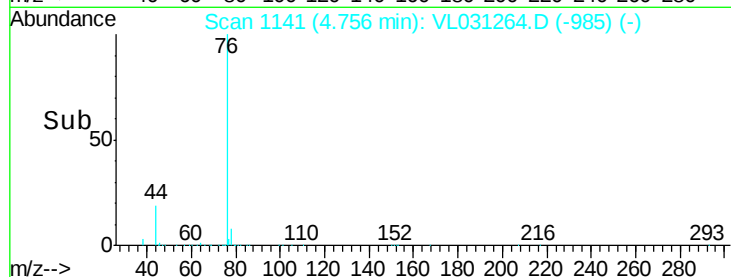
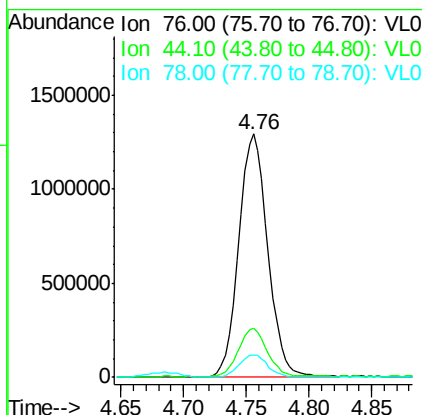
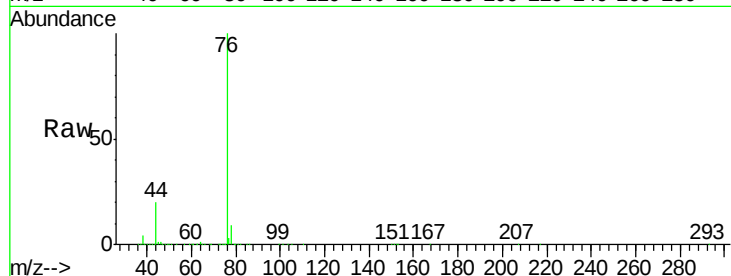
#27
Carbon Disulfide
Concen: 9.60 ppbv
RT: 4.76 min Scan# 1141
Delta R.T. 0.00 min
Lab File: VL031264.D
Acq: 20 Dec 2017 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
76	100		
44	20.0	16.0	24.0
78	9.3	7.5	11.3

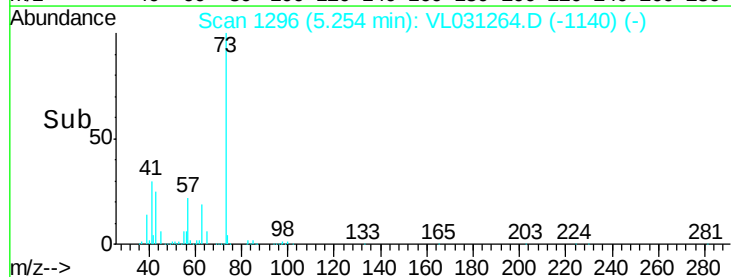
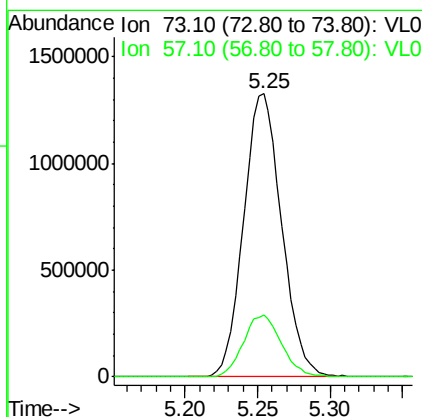
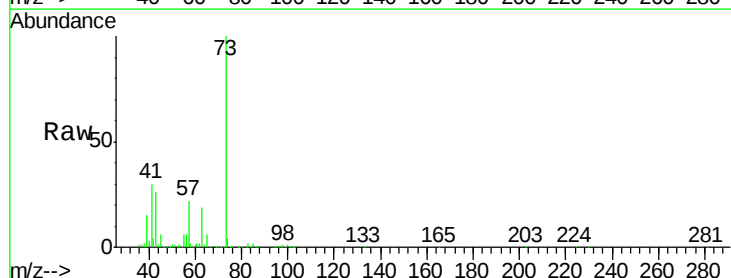
Manual Integrations
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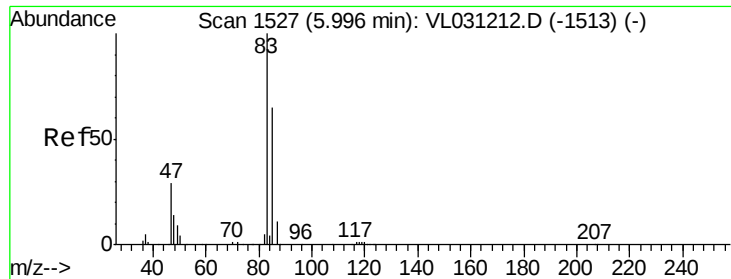
MMDadoda
12/22/2017 4:54:41 PM



#28
Methyl tert-Butyl Ether
Concen: 8.54 ppbv
RT: 5.25 min Scan# 1296
Delta R.T. 0.00 min
Lab File: VL031264.D
Acq: 20 Dec 2017 9:38

Tgt Ion	Ratio	Lower	Upper
73	100		
57	22.2	18.5	27.7





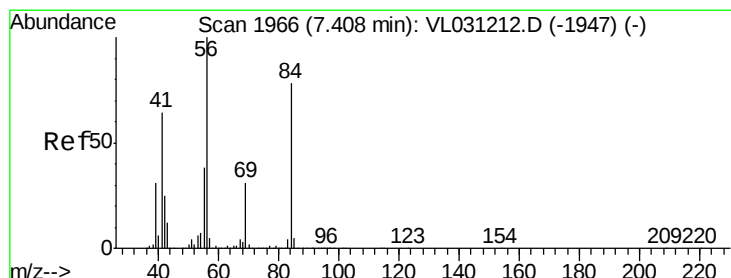
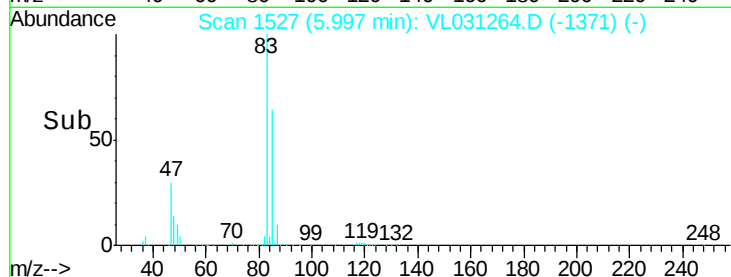
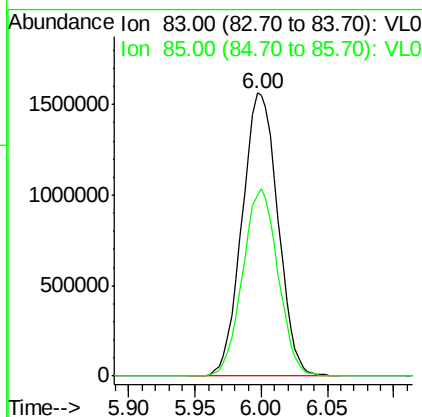
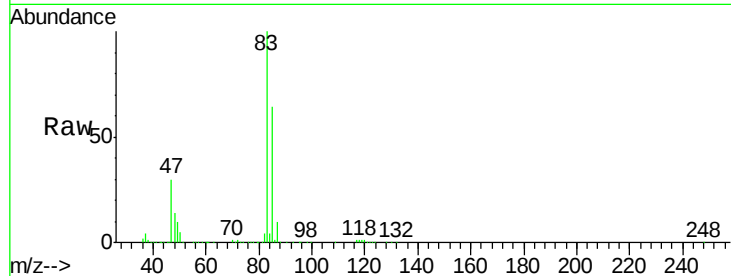
#29
Chloroform
Concen: 10.07 ppbv
RT: 6.00 min Scan# 1527
Delta R.T. 0.00 min
Lab File: VL031264.D
Acq: 20 Dec 2017 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 2948560
Ion Ratio Lower Upper
83 100
85 64.0 51.8 77.6

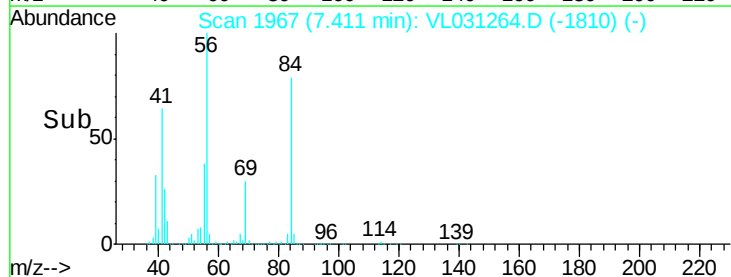
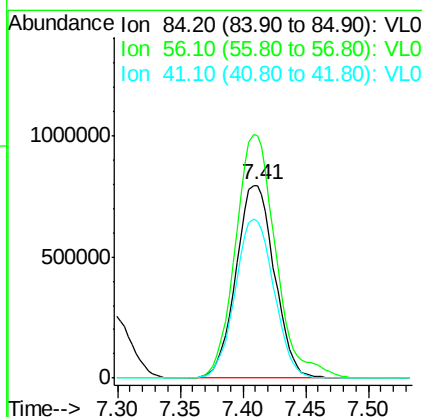
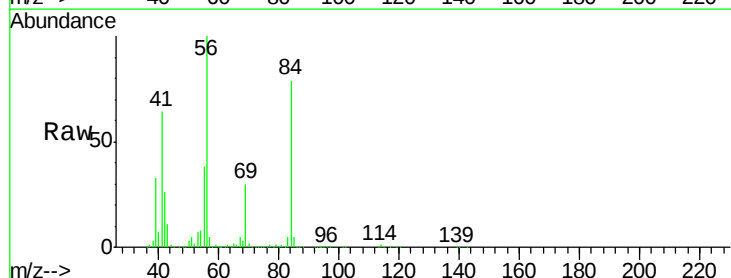
Manual Integrations
APPROVED

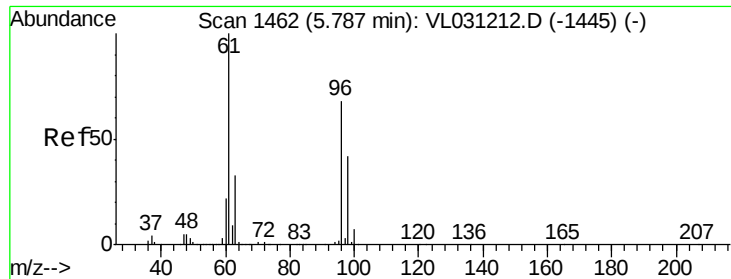
MMDadoda
12/22/2017 4:54:41 PM



#30
Cyclohexane
Concen: 8.88 ppbv
RT: 7.41 min Scan# 1967
Delta R.T. 0.00 min
Lab File: VL031264.D
Acq: 20 Dec 2017 9:38

Tgt Ion: 84 Resp: 1695261
Ion Ratio Lower Upper
84 100
56 132.8 108.0 162.0
41 82.8 66.2 99.4





#31

cis-1,2-Dichloroethene

Concen: 9.61 ppbv

RT: 5.79 min Scan# 1462

Delta R.T. 0.00 min

Lab File: VL031264.D

Acq: 20 Dec 2017 9:38

Instrument :

MSVOA_L

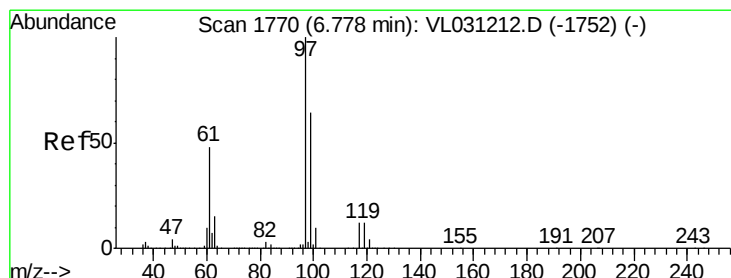
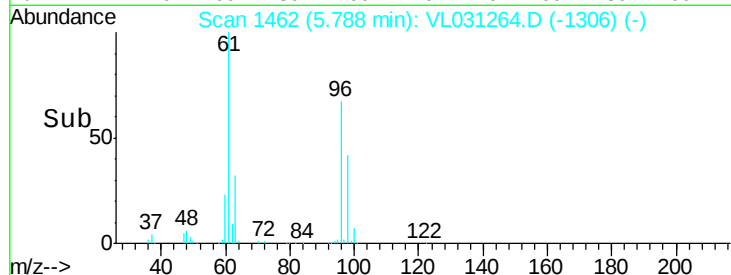
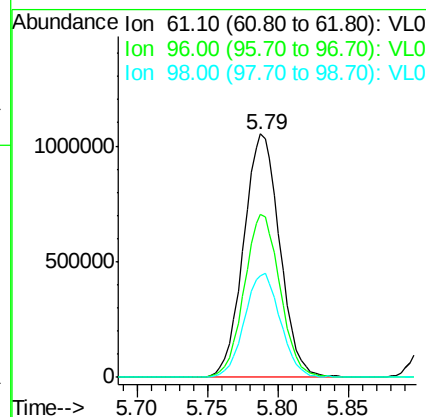
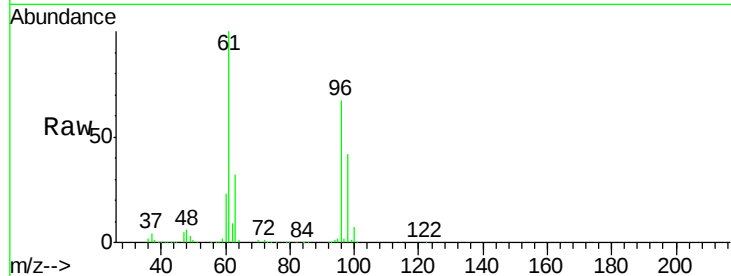
ClientSampleId :

VSTDCCC010

Tot Ion:	61	Resp:	1890281
Ion	Ratio	Lower	Upper
61	100		
96	66.7	54.4	81.6
98	41.9	33.6	50.4

Manual Integrations
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MMDadoda
12/22/2017 4:54:41 PM



#32

1,1,1-Trichloroethane

Concen: 9.61 ppbv

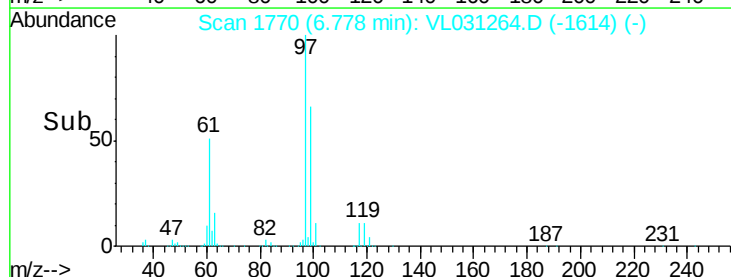
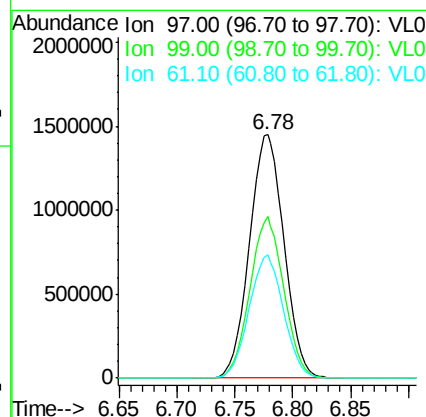
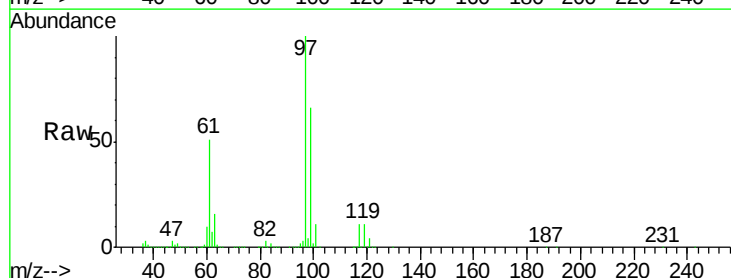
RT: 6.78 min Scan# 1770

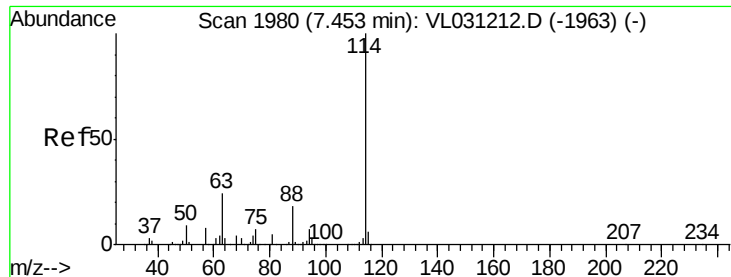
Delta R.T. 0.00 min

Lab File: VL031264.D

Acq: 20 Dec 2017 9:38

Tgt Ion:	97	Resp:	3007063
Ion	Ratio	Lower	Upper
97	100		
99	65.1	51.4	77.0
61	50.3	38.4	57.6





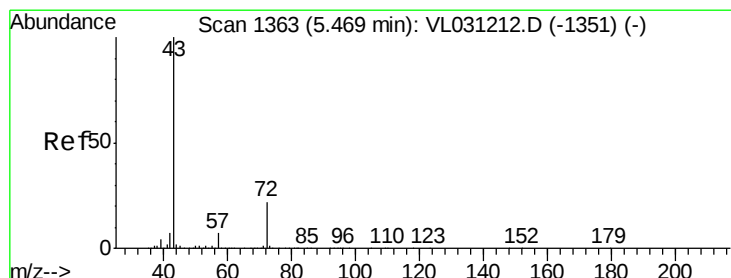
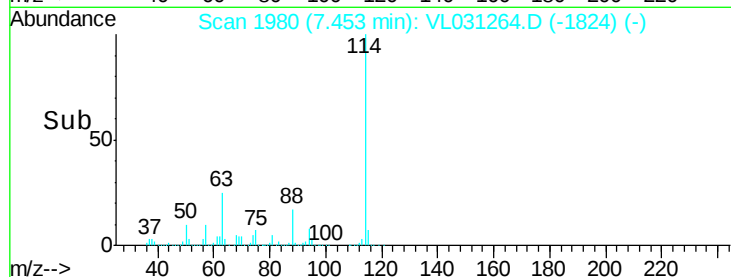
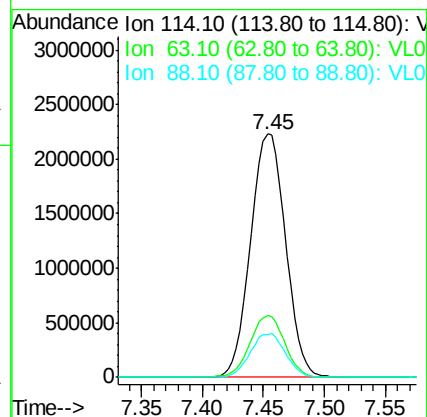
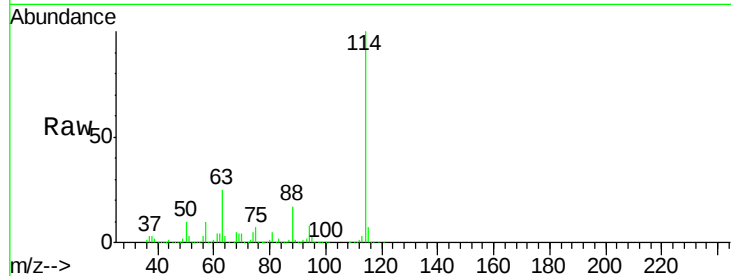
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.45 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VL031264.D
 Acq: 20 Dec 2017 9:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.5	19.8	29.8
88	17.9	14.2	21.4

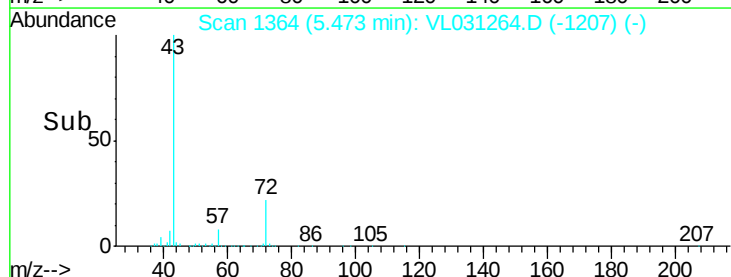
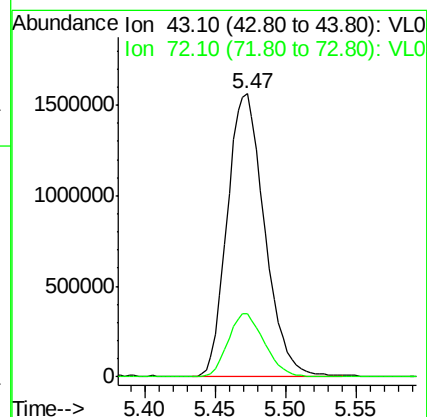
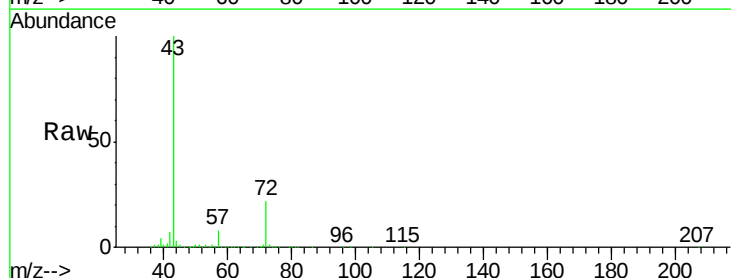
Manual Integrations
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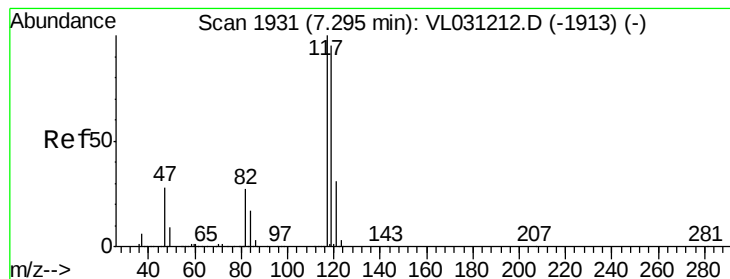
MMDadoda
 12/22/2017 4:54:41 PM



#34
 2-Butanone
 Concen: 9.21 ppbv
 RT: 5.47 min Scan# 1364
 Delta R.T. 0.00 min
 Lab File: VL031264.D
 Acq: 20 Dec 2017 9:38

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.2	18.1	27.1





#35

Carbon Tetrachloride

Concen: 9.96 ppbv

RT: 7.30 min Scan# 1931

Delta R.T. 0.00 min

Lab File: VL031264.D

Acq: 20 Dec 2017 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 3149734

Ion Ratio Lower Upper

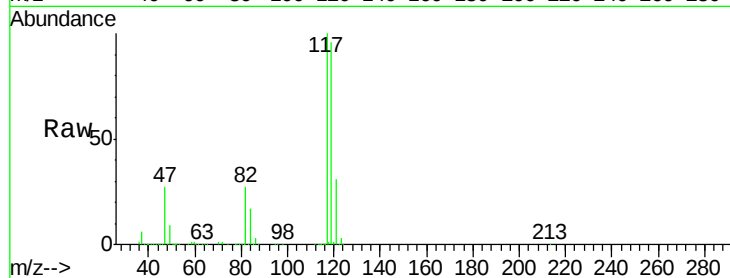
117 100

119 95.8 75.9 113.9

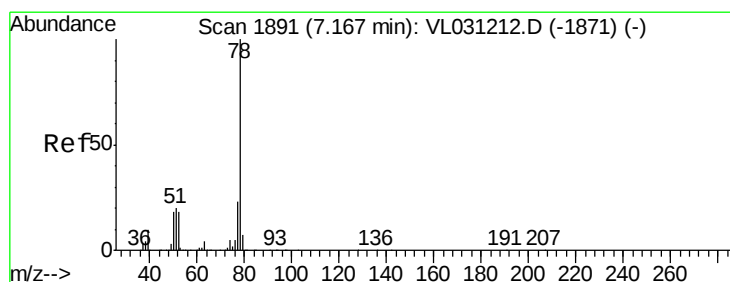
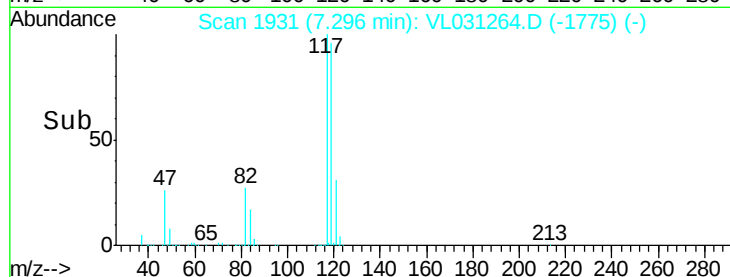
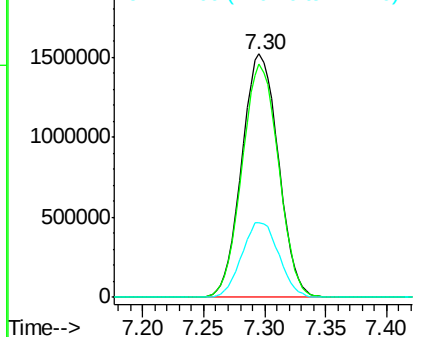
121 30.7 24.6 37.0

Manual Integrations
APPROVED

MMDadoda
12/22/2017 4:54:41 PM



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: 8.91 ppbv

RT: 7.17 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VL031264.D

Acq: 20 Dec 2017 9:38

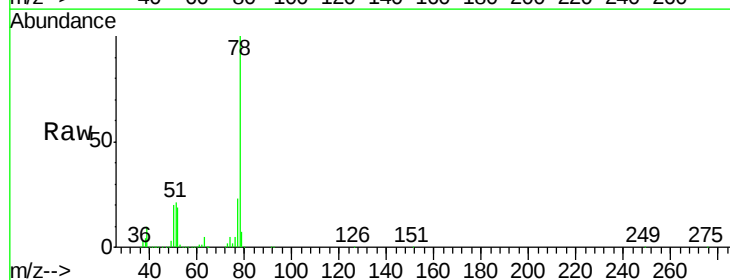
Tgt Ion: 78 Resp: 4164741

Ion Ratio Lower Upper

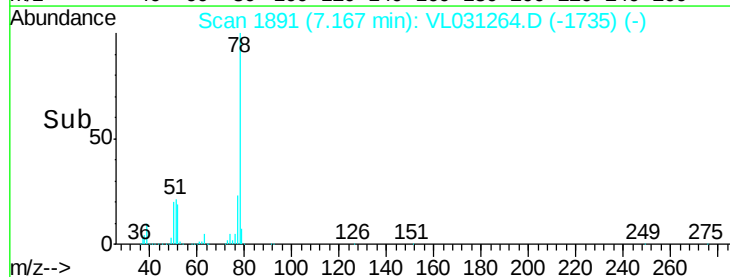
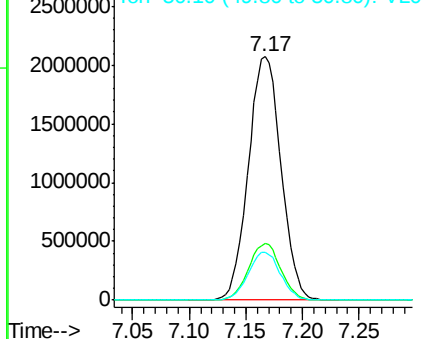
78 100

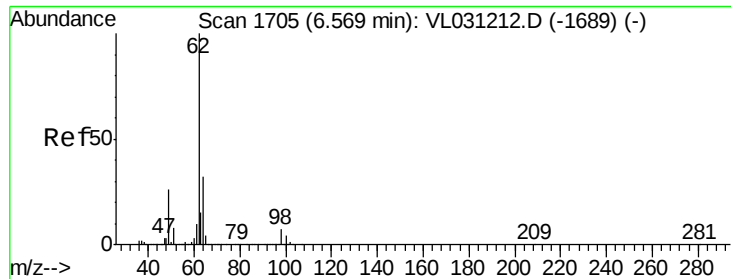
77 23.3 18.1 27.1

50 19.9 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





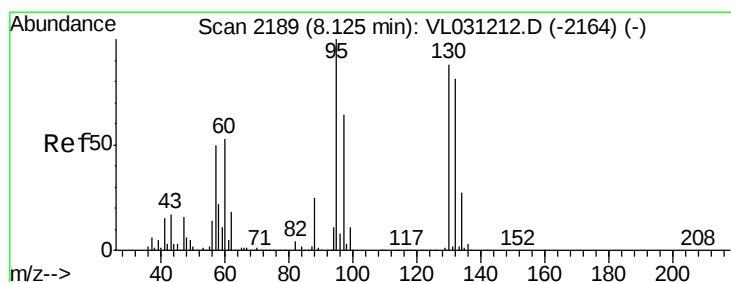
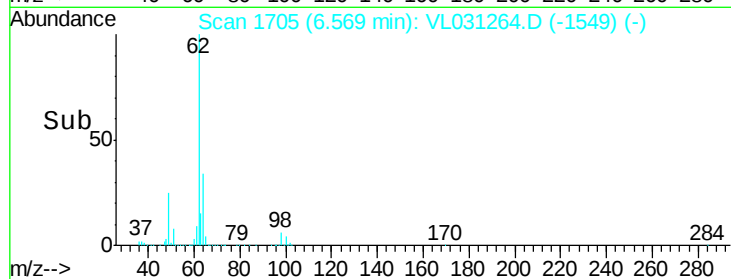
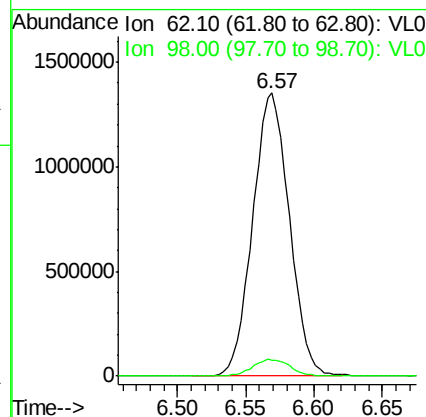
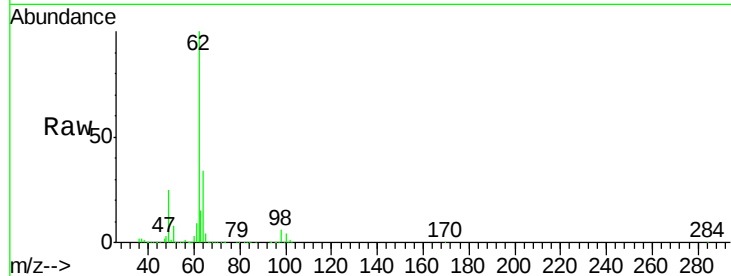
#37
 1,2-Dichloroethane
 Concen: 9.77 ppbv
 RT: 6.57 min Scan# 1705
 Delta R.T. 0.00 min
 Lab File: VL031264.D
 Acq: 20 Dec 2017 9:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
62	100		
98	6.2	5.4	8.2

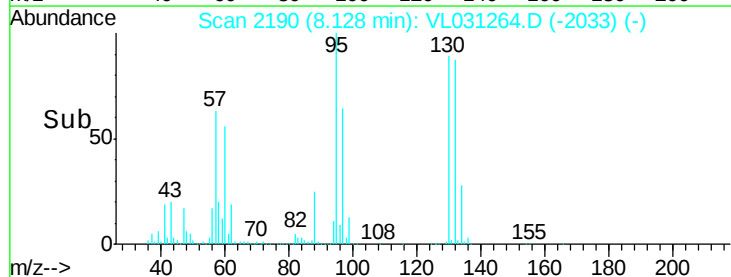
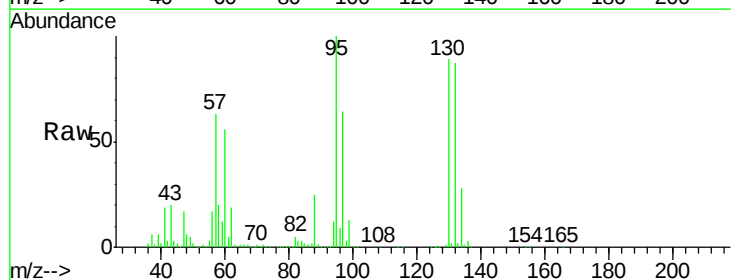
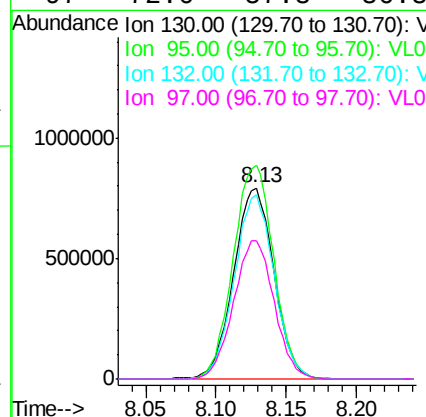
Manual Integrations
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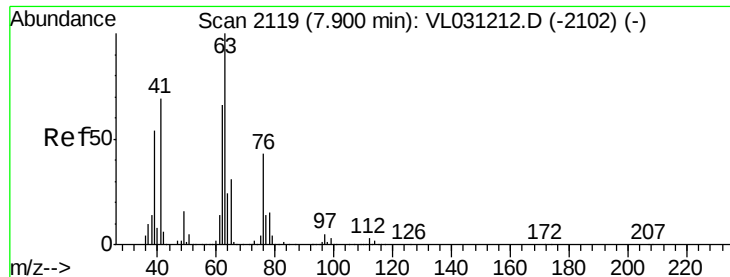
MMDadoda
 12/22/2017 4:54:41 PM



#38
 Trichloroethene
 Concen: 8.63 ppbv
 RT: 8.13 min Scan# 2190
 Delta R.T. 0.00 min
 Lab File: VL031264.D
 Acq: 20 Dec 2017 9:38

Tgt Ion	Ratio	Lower	Upper
130	100		
95	111.9	90.6	135.8
132	96.9	73.5	110.3
97	72.0	57.8	86.8





#39

1,2-Dichloropropane

Concen: 9.16 ppbv

RT: 7.90 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VL031264.D

Acq: 20 Dec 2017 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 63 Resp: 1513953

Ion Ratio Lower Upper

63 100

41 74.4 55.2 82.8

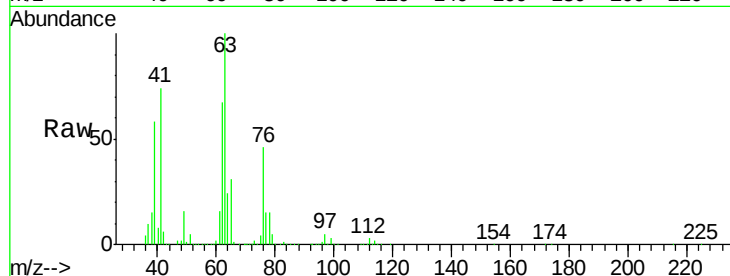
62 67.0 53.0 79.4

Manual Integrations

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MMDadoda

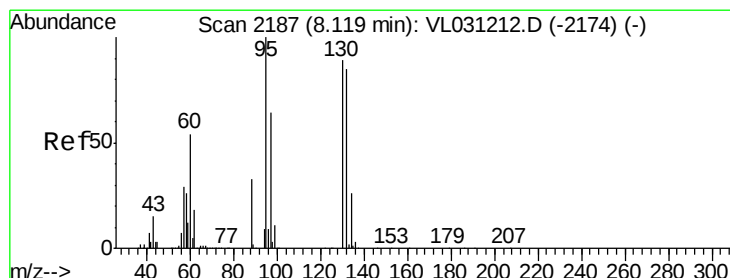
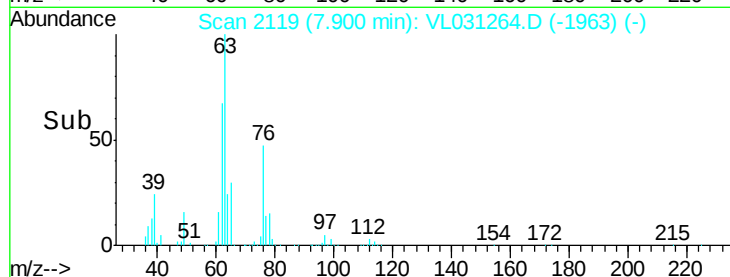
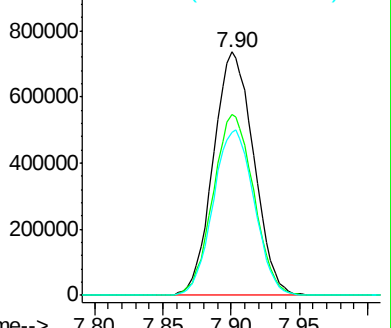
12/22/2017 4:54:41 PM



Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 10.54 ppbv

RT: 8.12 min Scan# 2186

Delta R.T. -0.00 min

Lab File: VL031264.D

Acq: 20 Dec 2017 9:38

Tgt Ion: 88 Resp: 629049

Ion Ratio Lower Upper

88 100

58 121.5 104.3 156.5

43 232.3 0.0 0.0#

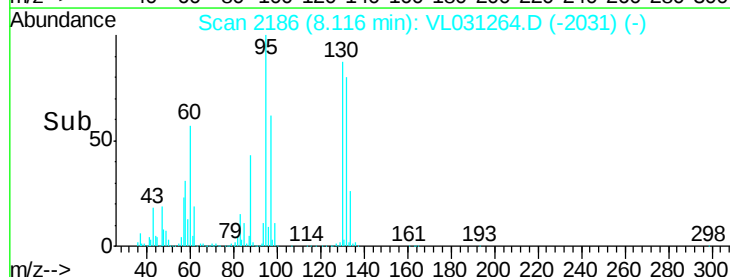
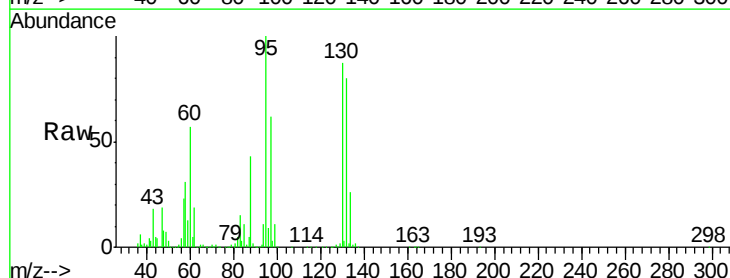
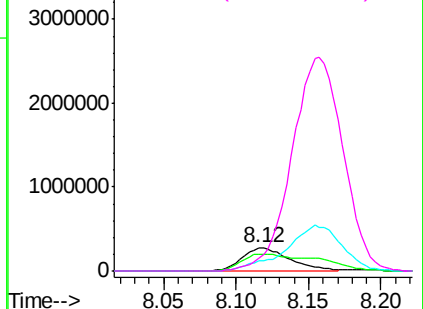
57 995.8 0.0 0.0#

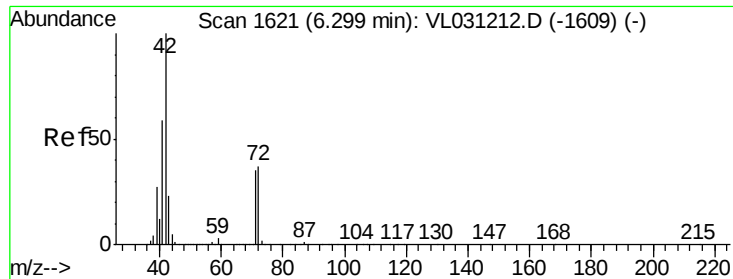
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





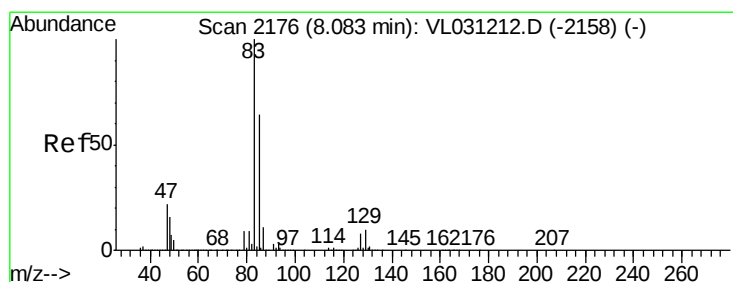
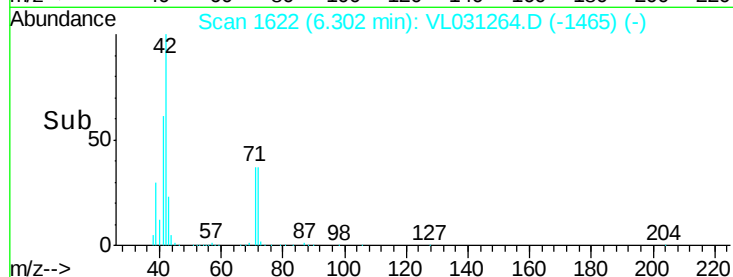
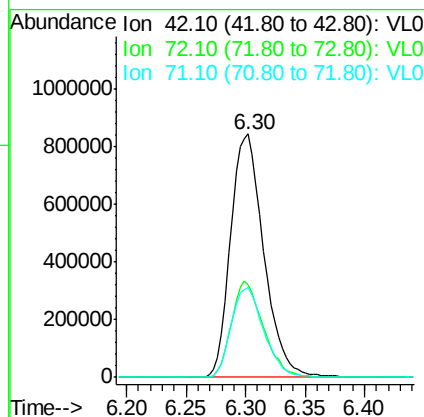
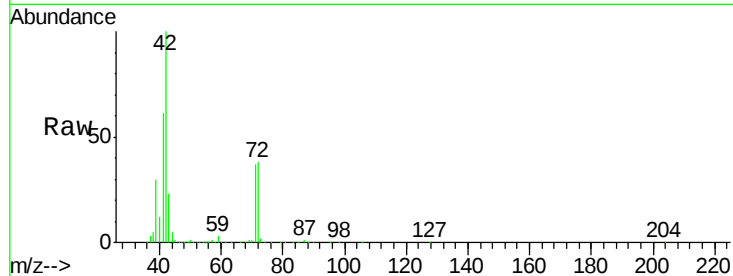
#41
Tetrahydrofuran
Concen: 9.30 ppbv
RT: 6.30 min Scan# 1622
Delta R.T. 0.00 min
Lab File: VL031264.D
Acq: 20 Dec 2017 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 42 Resp: 1630012
Ion Ratio Lower Upper
42 100
72 38.1 30.2 45.4
71 36.7 29.0 43.6

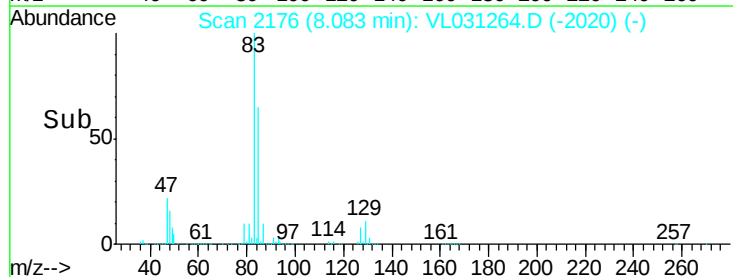
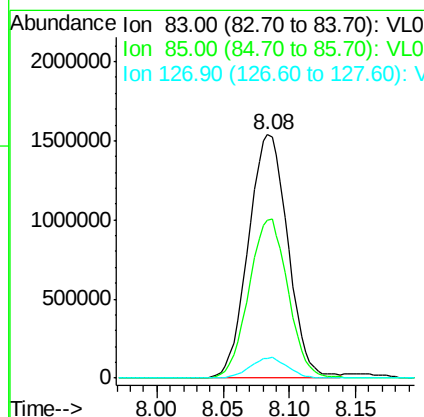
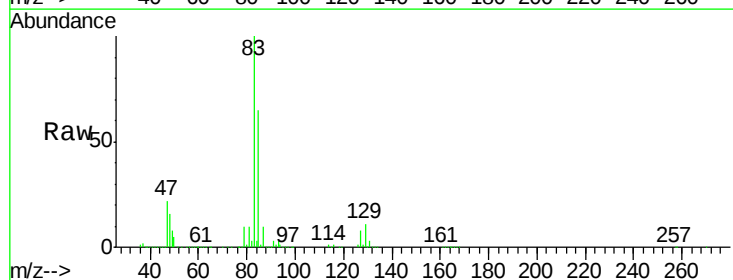
Manual Integrations
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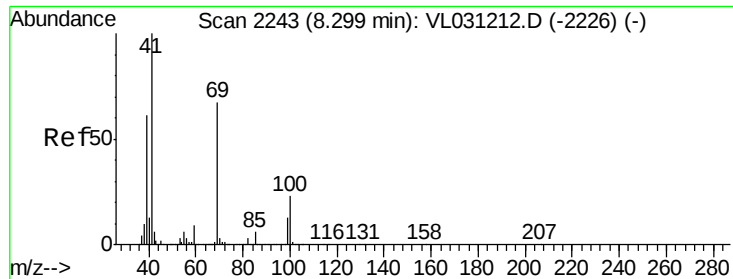
MM Dadoda
12/22/2017 4:54:41 PM



#42
Bromodichloromethane
Concen: 10.47 ppbv
RT: 8.08 min Scan# 2176
Delta R.T. 0.00 min
Lab File: VL031264.D
Acq: 20 Dec 2017 9:38

Tgt Ion: 83 Resp: 3185885
Ion Ratio Lower Upper
83 100
85 65.0 51.5 77.3
127 8.0 6.5 9.7





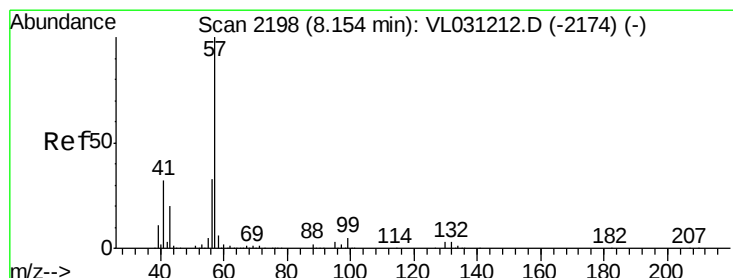
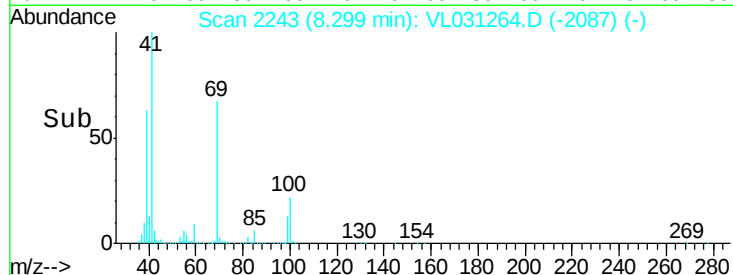
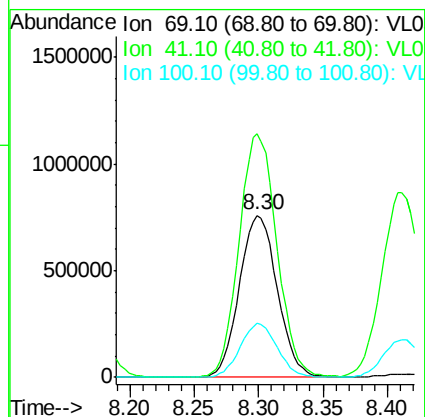
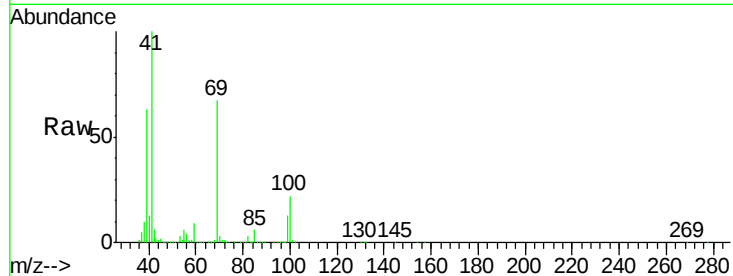
#43
Methvl Methacrilate
Concen: 9.92 ppbv
RT: 8.30 min Scan# 2243
Delta R.T. 0.00 min
Lab File: VL031264.D
Acq: 20 Dec 2017 9:38

Instrument :
MSVOA_L
ClientSampled :
VSTDCCC010

Tot Ion: 69 Resp: 1553306
Ion Ratio Lower Upper
69 100
41 149.2 121.1 181.7
100 32.6 27.4 41.2

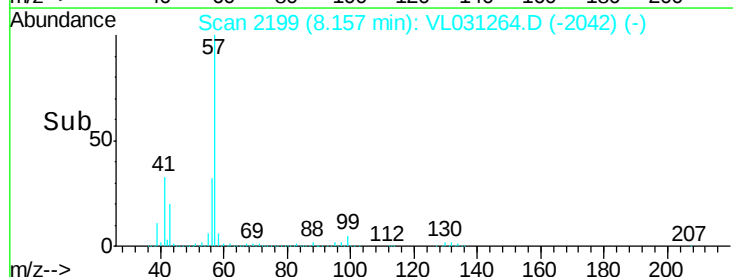
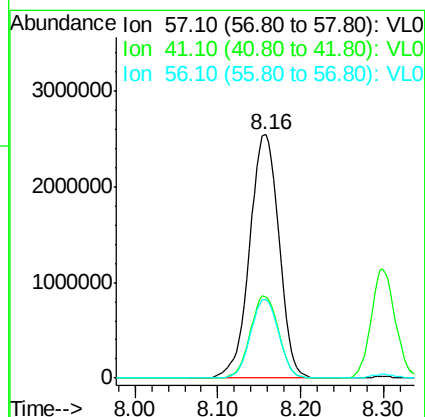
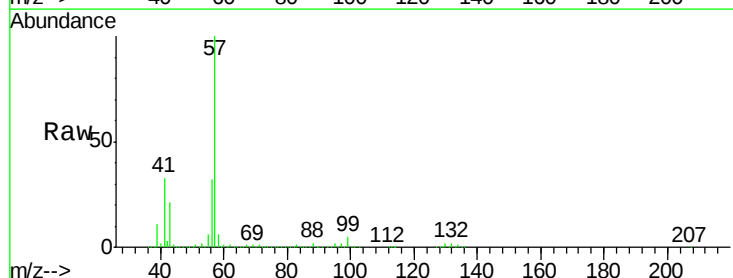
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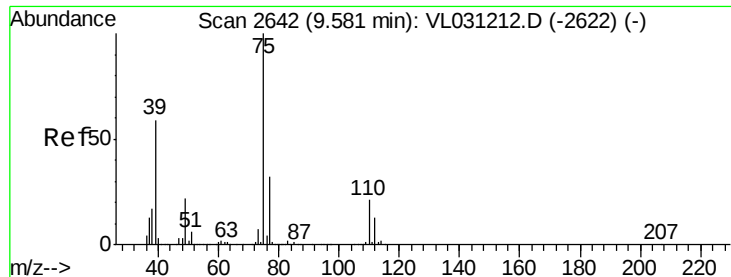
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 8.86 ppbv
RT: 8.16 min Scan# 2199
Delta R.T. 0.00 min
Lab File: VL031264.D
Acq: 20 Dec 2017 9:38

Tgt Ion: 57 Resp: 6260504
Ion Ratio Lower Upper
57 100
41 32.6 25.5 38.3
56 31.1 25.0 37.6





#45

t-1,3-Dichloropropene

Concen: 9.67 ppbv

RT: 9.58 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VL031264.D

Acq: 20 Dec 2017 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 75 Resp: 2072178

Ion Ratio Lower Upper

75 100

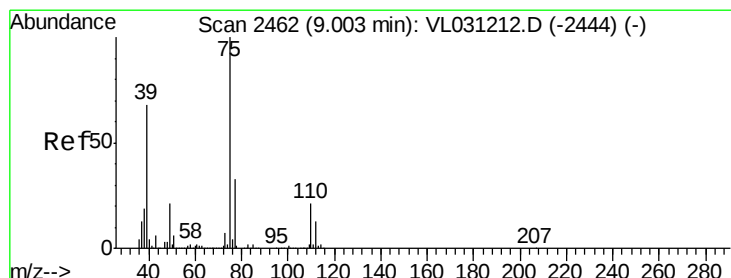
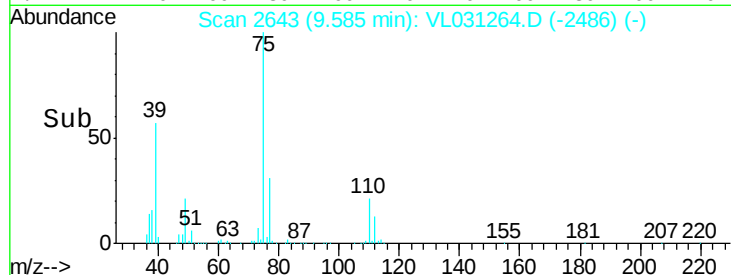
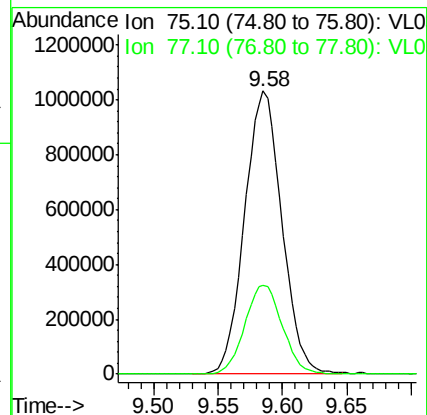
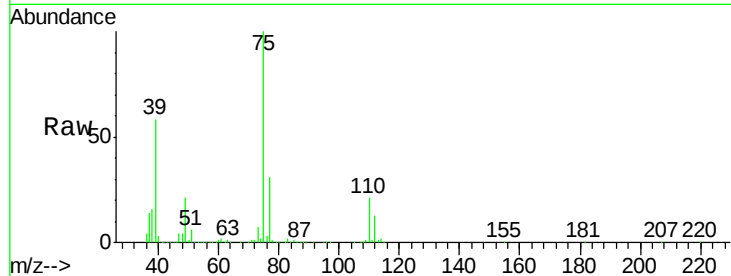
77 31.2 25.4 38.2

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#46

cis-1,3-Dichloropropene

Concen: 9.80 ppbv

RT: 9.00 min Scan# 2462

Delta R.T. 0.00 min

Lab File: VL031264.D

Acq: 20 Dec 2017 9:38

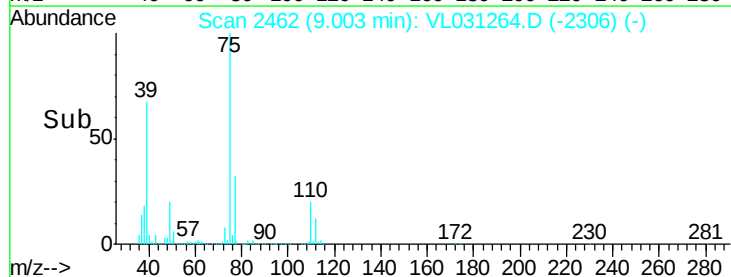
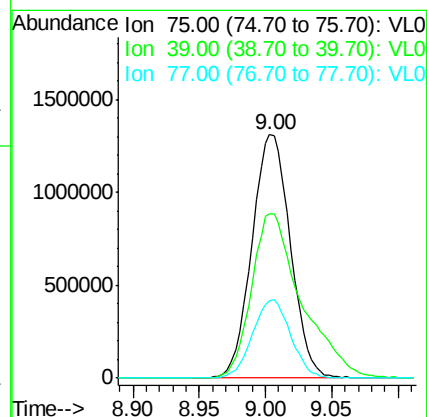
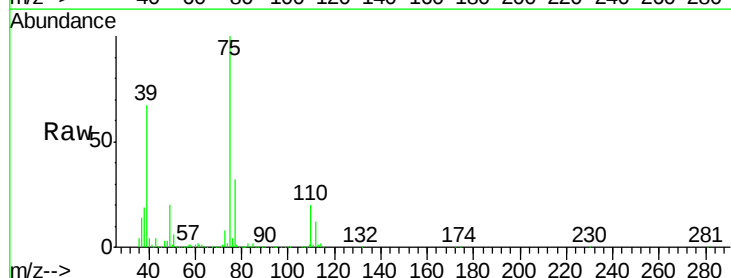
Tgt Ion: 75 Resp: 2640143

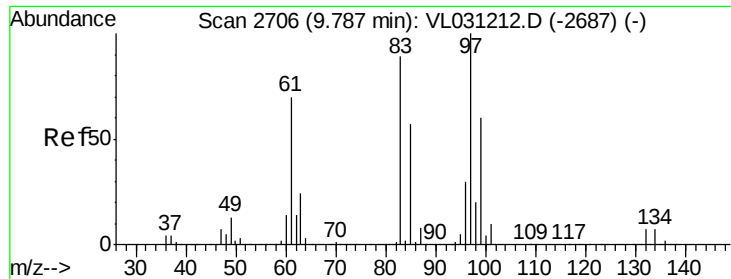
Ion Ratio Lower Upper

75 100

39 67.3 54.2 81.4

77 31.9 26.2 39.4





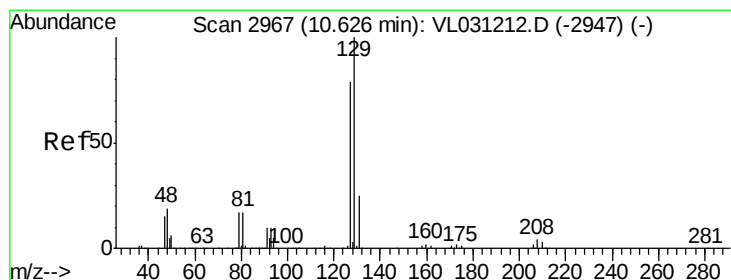
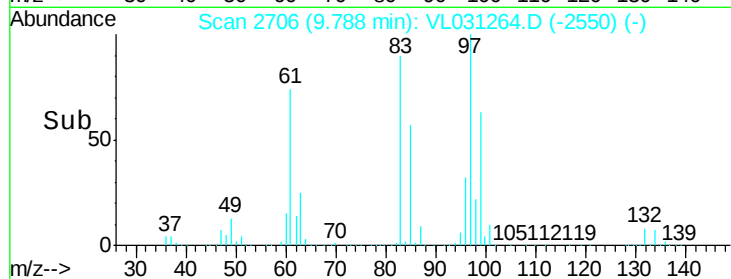
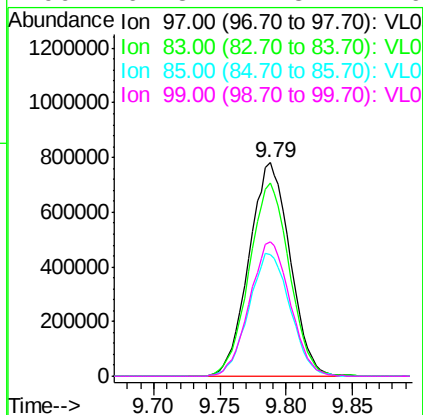
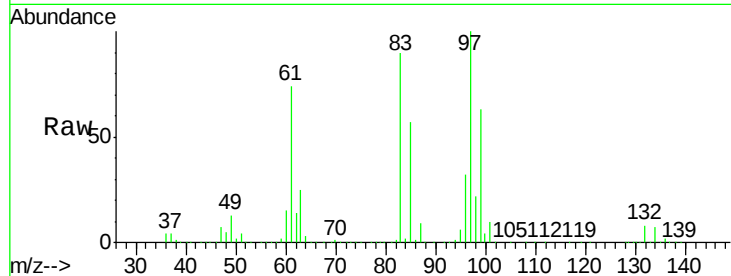
#47
 1,1,2-Trichloroethane
 Concen: 9.81 ppbv
 RT: 9.79 min Scan# 2706
 Delta R.T. 0.00 min
 Lab File: VL031264.D
 Acq: 20 Dec 2017 9:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
97	100		
83	90.3	71.0	106.4
85	57.1	45.3	67.9
99	62.8	47.8	71.6

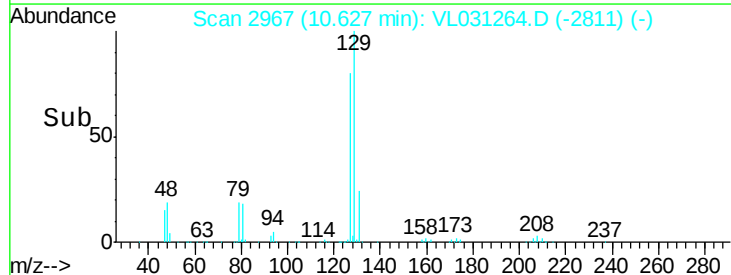
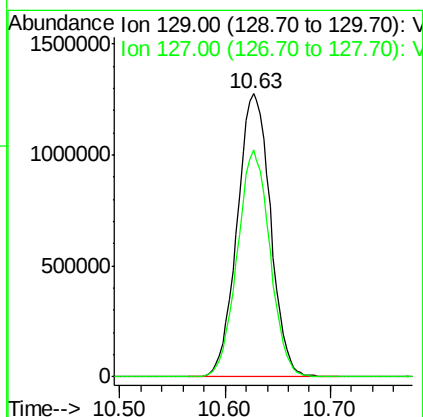
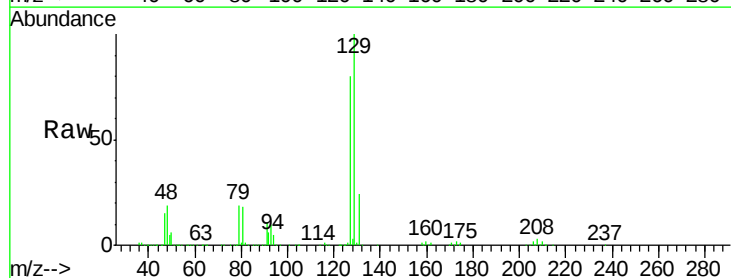
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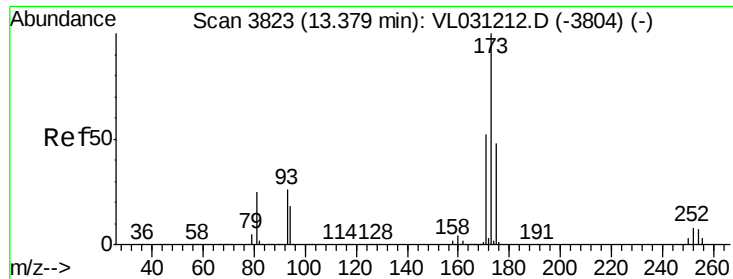
MMDadoda
 12/22/2017 4:54:41 PM



#48
 Dibromochloromethane
 Concen: 10.44 ppbv
 RT: 10.63 min Scan# 2967
 Delta R.T. 0.00 min
 Lab File: VL031264.D
 Acq: 20 Dec 2017 9:38

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.6	39.1	117.5





#49

Bromoform

Concen: 10.11 ppbv

RT: 13.38 min Scan# 3824

Delta R.T. 0.00 min

Lab File: VL031264.D

Acq: 20 Dec 2017 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:173 Resp: 1998608

Ion Ratio Lower Upper

173 100

175 48.8 39.0 58.4

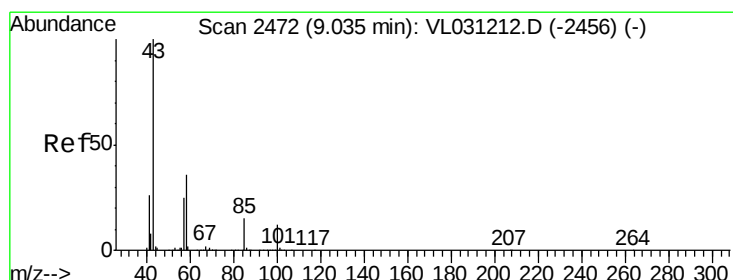
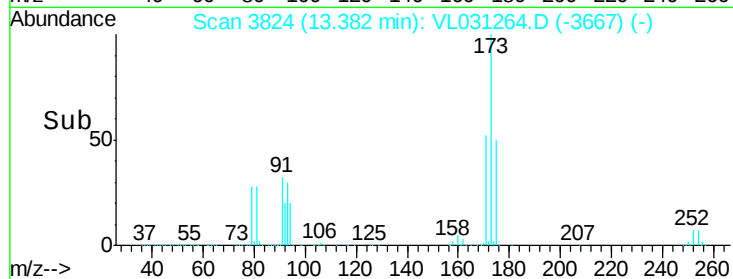
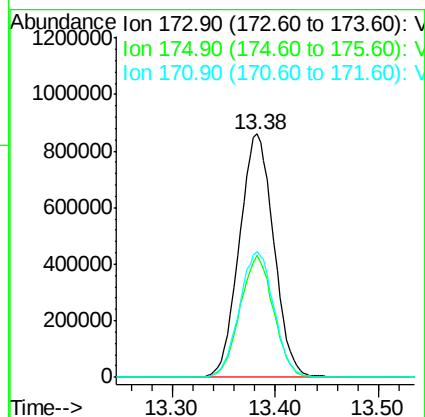
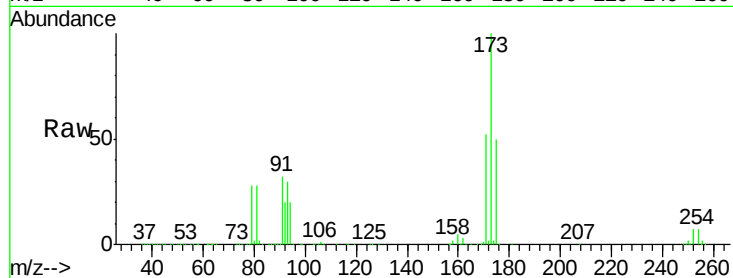
171 51.9 41.8 62.8

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#50

4-Methyl-2-Pentanone

Concen: 9.59 ppbv

RT: 9.04 min Scan# 2472

Delta R.T. 0.00 min

Lab File: VL031264.D

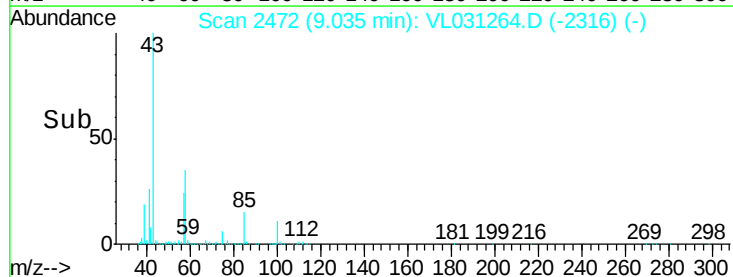
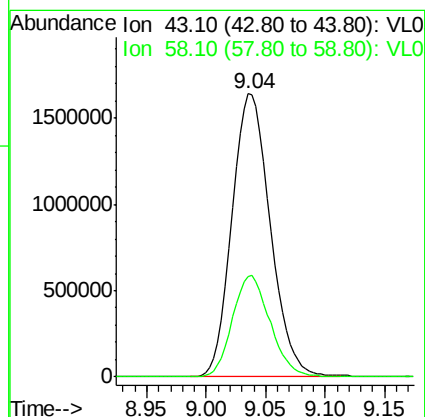
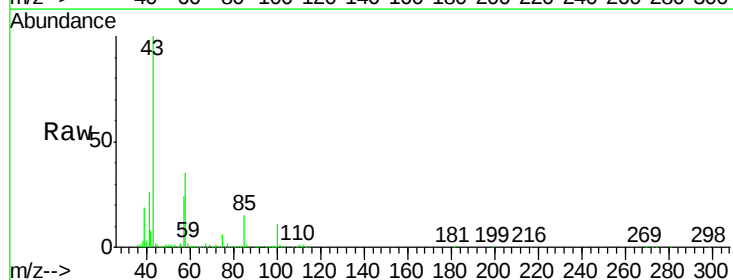
Acq: 20 Dec 2017 9:38

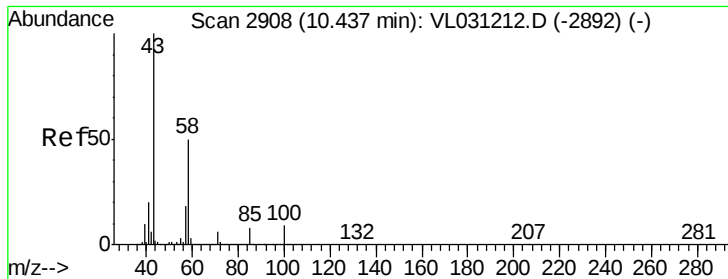
Tgt Ion: 43 Resp: 3658689

Ion Ratio Lower Upper

43 100

58 35.4 28.8 43.2





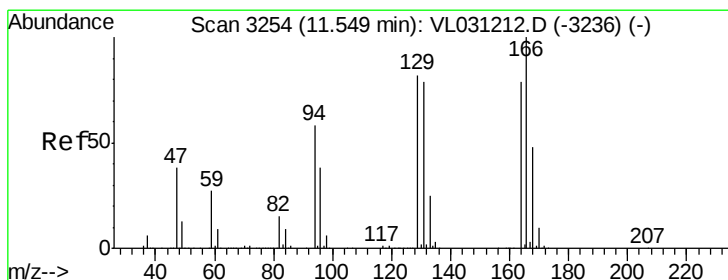
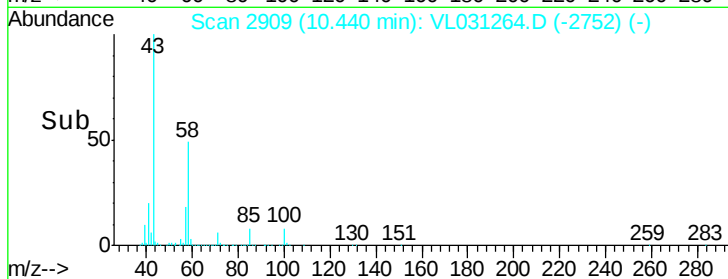
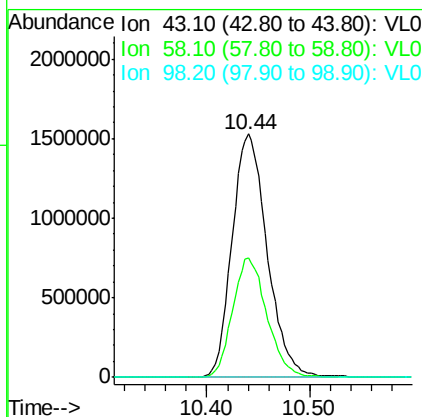
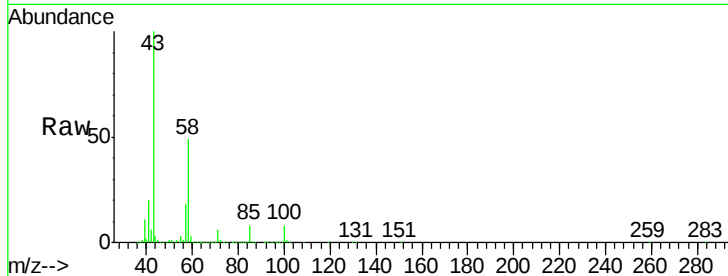
#51
2-Hexanone
Concen: 9.95 ppbv
RT: 10.44 min Scan# 2909
Delta R.T. 0.00 min
Lab File: VL031264.D
Acq: 20 Dec 2017 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 43 Resp: 3622983
Ion Ratio Lower Upper
43 100
58 48.1 39.8 59.6
98 0.1 0.0 0.0#

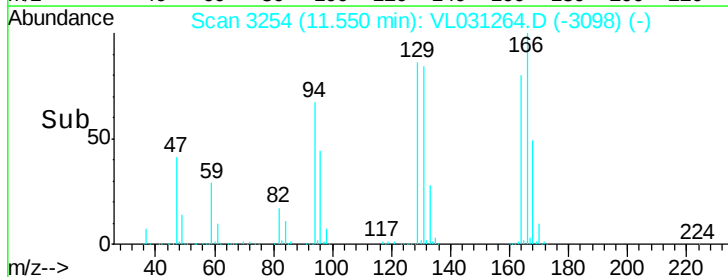
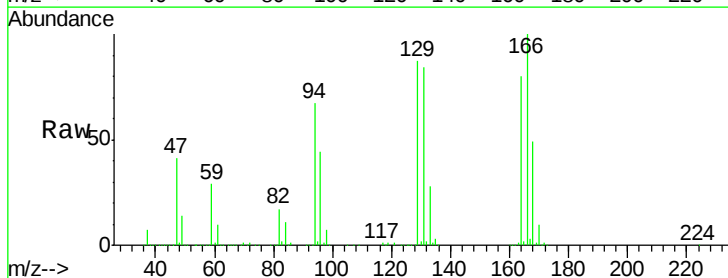
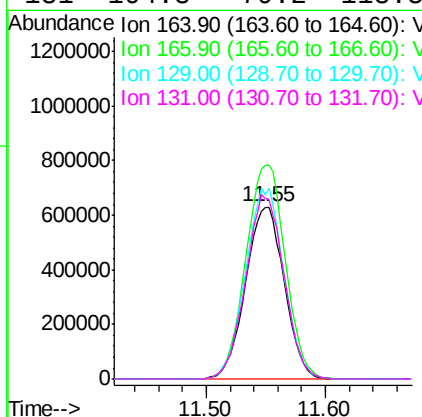
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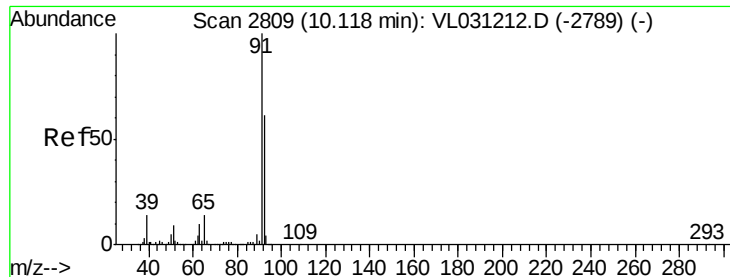
MMDadoda
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#52
Tetrachloroethene
Concen: 8.20 ppbv
RT: 11.55 min Scan# 3254
Delta R.T. 0.00 min
Lab File: VL031264.D
Acq: 20 Dec 2017 9:38

Tgt Ion: 164 Resp: 1414528
Ion Ratio Lower Upper
164 100
166 124.3 100.6 151.0
129 107.5 82.9 124.3
131 104.8 79.2 118.8





#53

Toluene

Concen: 9.39 ppbv

RT: 10.12 min Scan# 2809

Delta R.T. 0.00 min

Lab File: VL031264.D

Acq: 20 Dec 2017 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 4763718

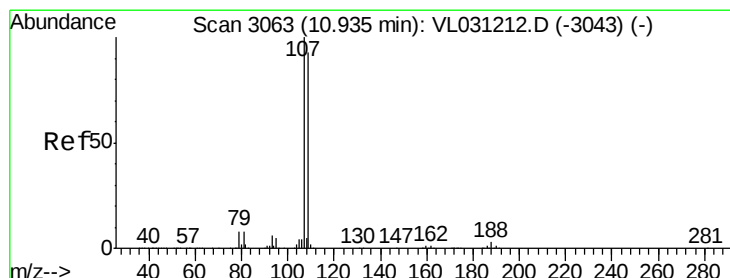
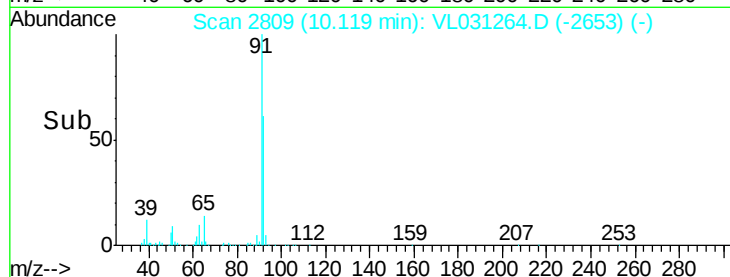
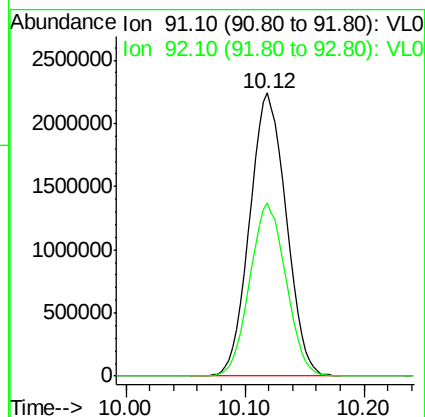
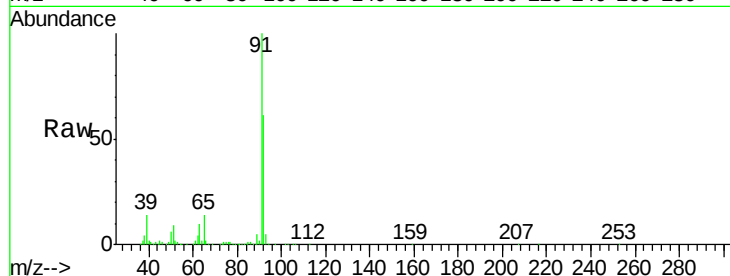
Ion Ratio Lower Upper

91 100

92 60.5 49.1 73.7

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#54

1,2-Dibromoethane

Concen: 9.76 ppbv

RT: 10.94 min Scan# 3064

Delta R.T. 0.00 min

Lab File: VL031264.D

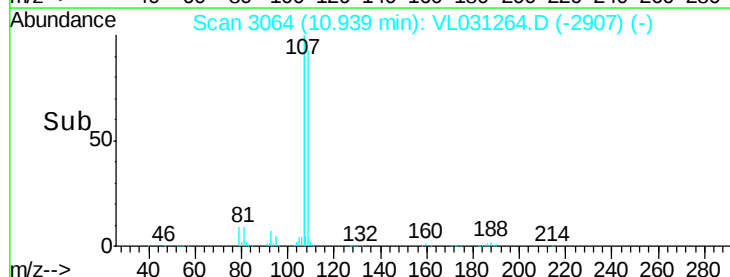
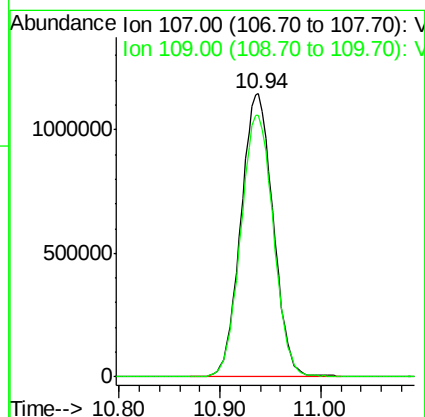
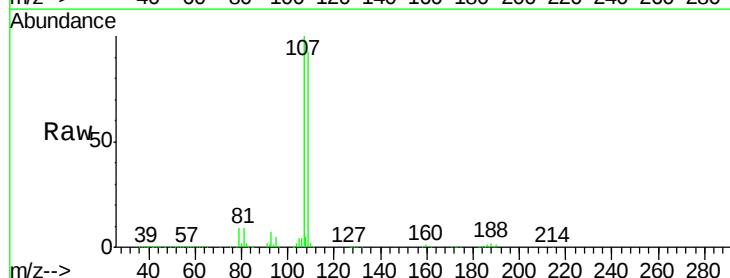
Acq: 20 Dec 2017 9:38

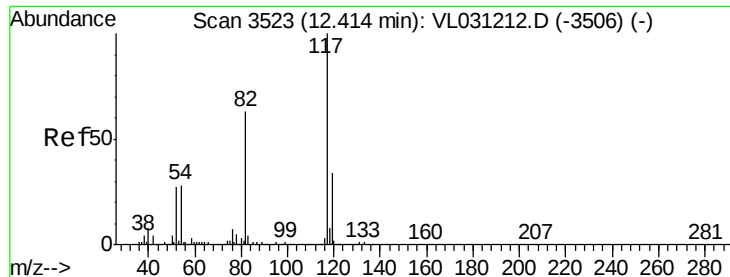
Tgt Ion: 107 Resp: 2535828

Ion Ratio Lower Upper

107 100

109 92.6 74.7 112.1





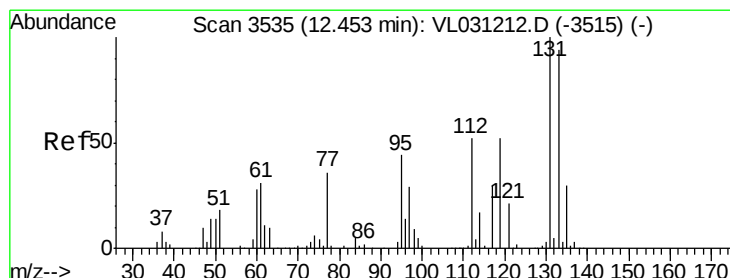
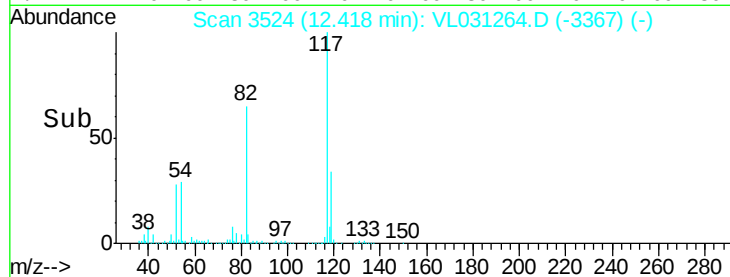
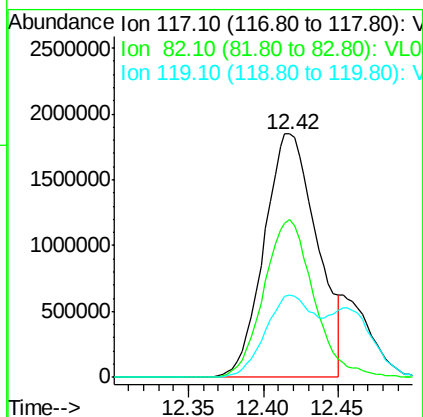
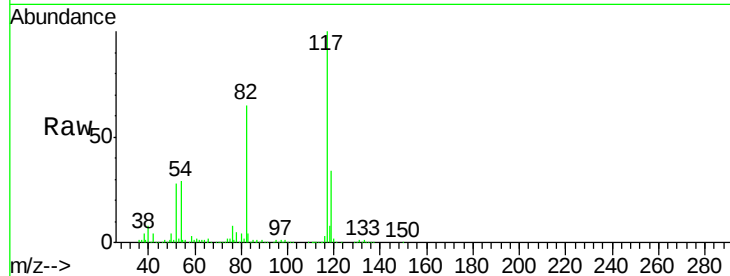
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.42 min Scan# 3524
Delta R.T. 0.00 min
Lab File: VL031264.D
Acq: 20 Dec 2017 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:117 Resp: 4529412
Ion Ratio Lower Upper
117 100
82 61.7 48.1 72.1
119 55.6 23.1 34.7#

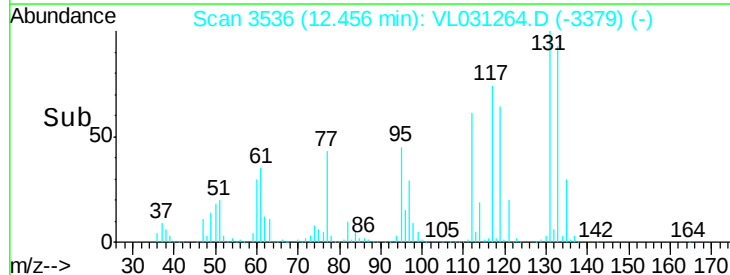
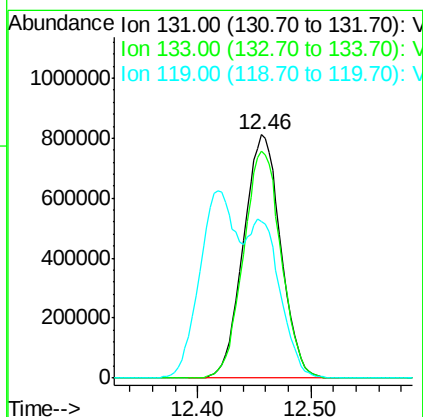
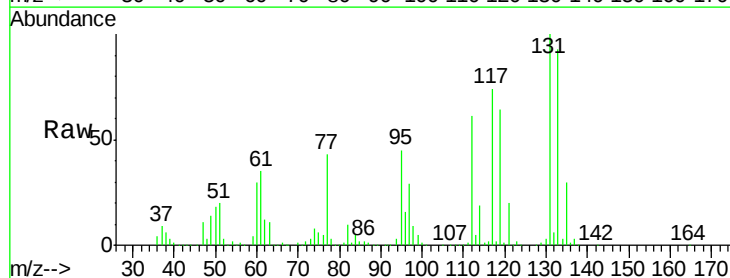
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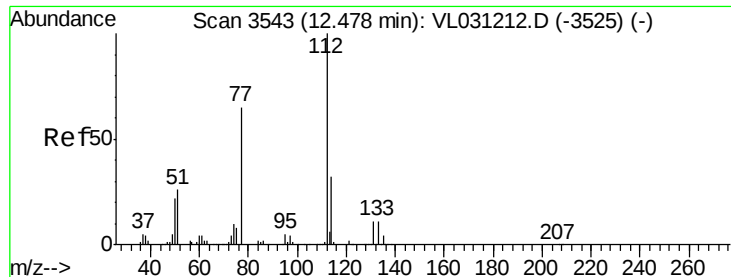
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.20 ppbv
RT: 12.46 min Scan# 3536
Delta R.T. 0.00 min
Lab File: VL031264.D
Acq: 20 Dec 2017 9:38

Tgt Ion:131 Resp: 1859834
Ion Ratio Lower Upper
131 100
133 94.3 76.1 114.1
119 135.6 108.5 162.7





#57

Chlorobenzene

Concen: 8.65 ppbv

RT: 12.48 min Scan# 3543

Delta R.T. 0.00 min

Lab File: VL031264.D

Acq: 20 Dec 2017 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:112 Resp: 3651969

Ion Ratio Lower Upper

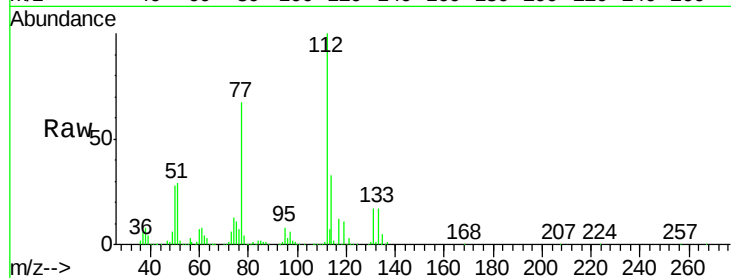
112 100

77 66.9 52.9 79.3

114 32.5 29.1 35.5

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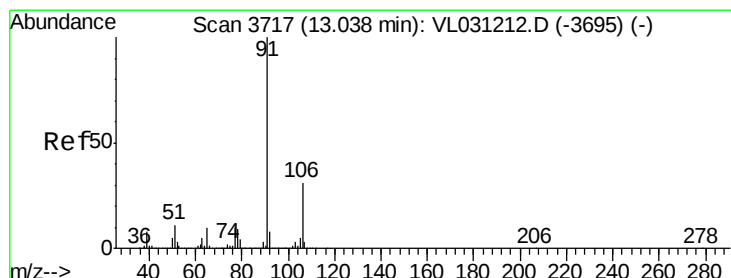
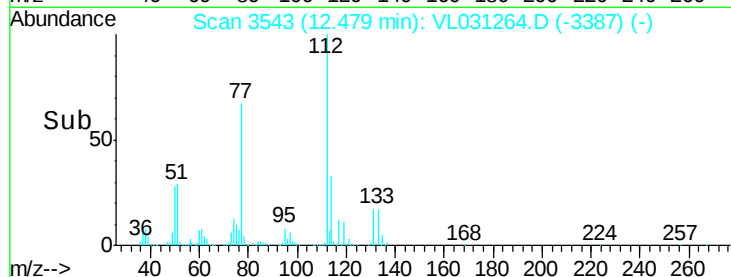
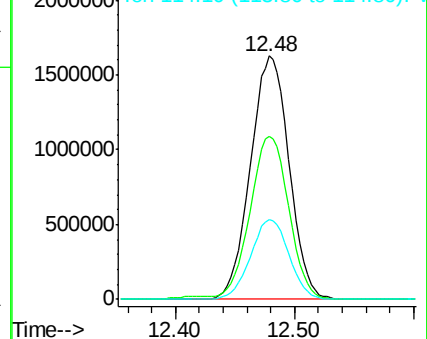
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 8.50 ppbv

RT: 13.04 min Scan# 3718

Delta R.T. 0.00 min

Lab File: VL031264.D

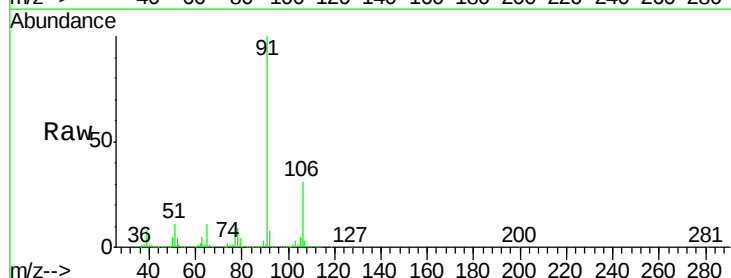
Acq: 20 Dec 2017 9:38

Tgt Ion: 91 Resp: 6359165

Ion Ratio Lower Upper

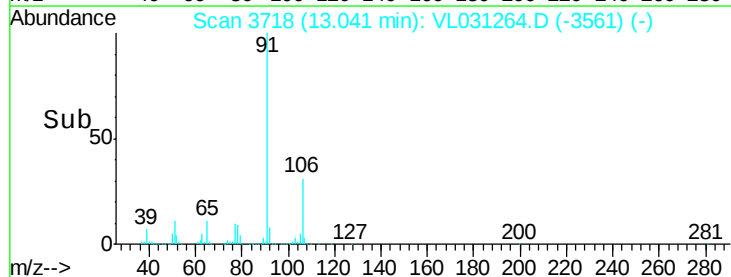
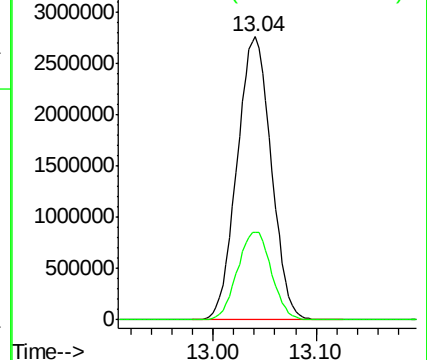
91 100

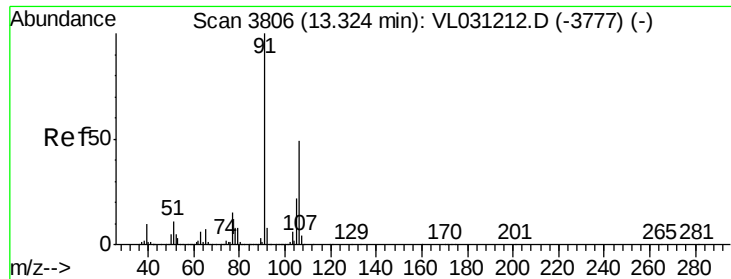
106 31.1 25.1 37.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





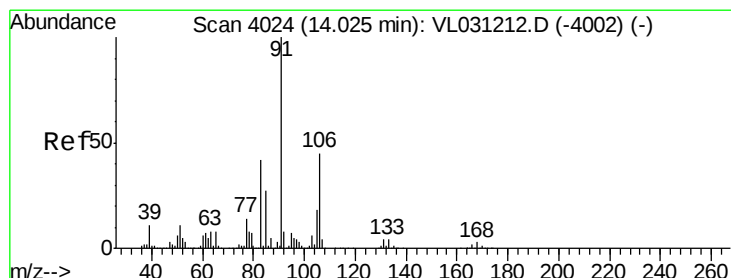
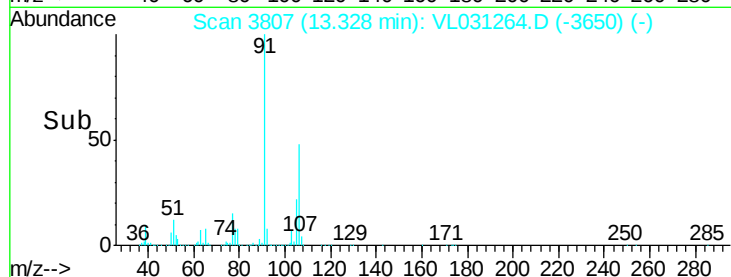
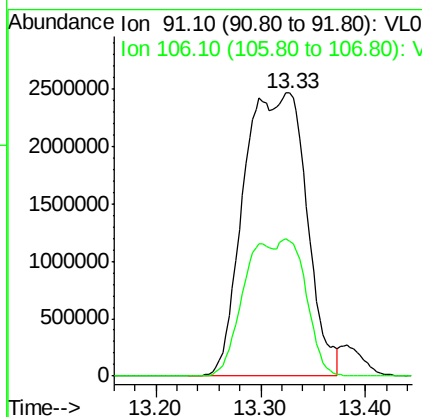
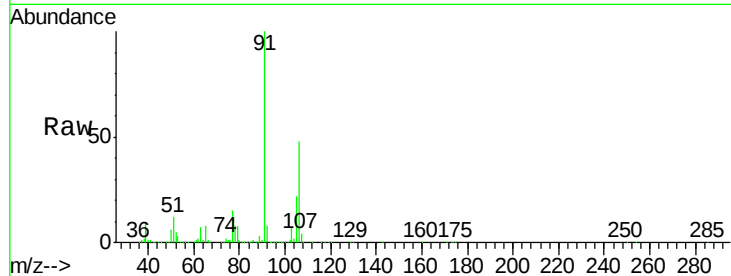
#59
m/p-Xylene
Concen: 17.08 ppbv m
RT: 13.33 min Scan# 3807
Delta R.T. 0.00 min
Lab File: VL031264.D
Acq: 20 Dec 2017 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 10227799
Ion Ratio Lower Upper
91 100
106 46.9 38.5 57.7

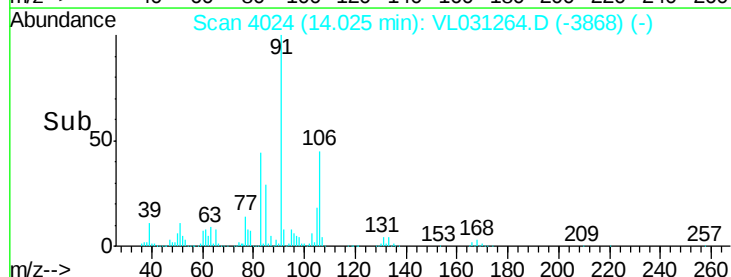
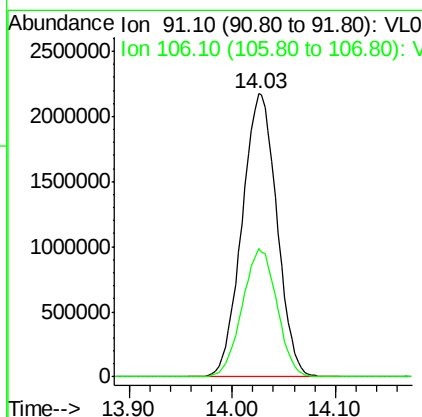
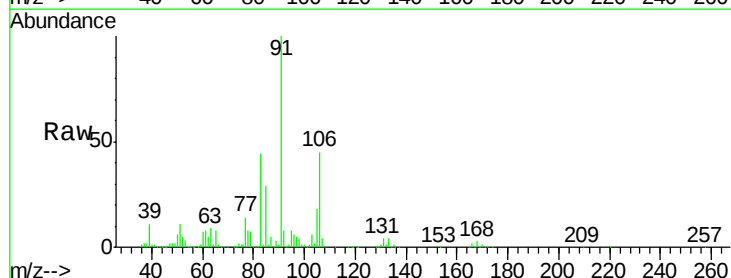
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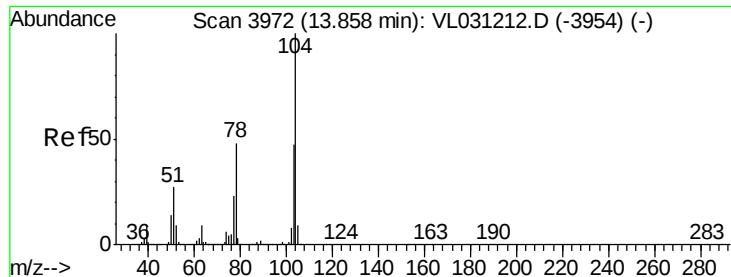
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#60
o-Xylene
Concen: 8.46 ppbv
RT: 14.03 min Scan# 4024
Delta R.T. 0.00 min
Lab File: VL031264.D
Acq: 20 Dec 2017 9:38

Tgt Ion: 91 Resp: 5105080
Ion Ratio Lower Upper
91 100
106 45.0 22.7 68.1





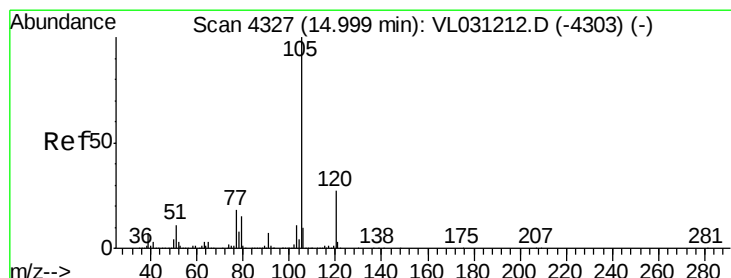
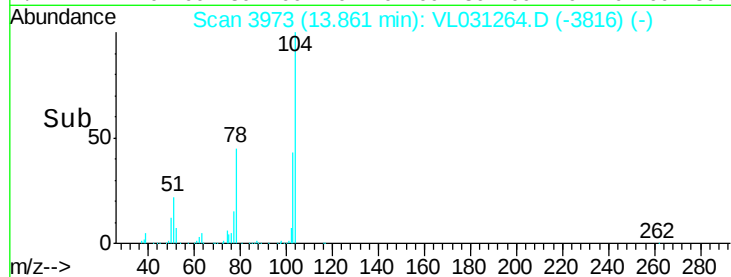
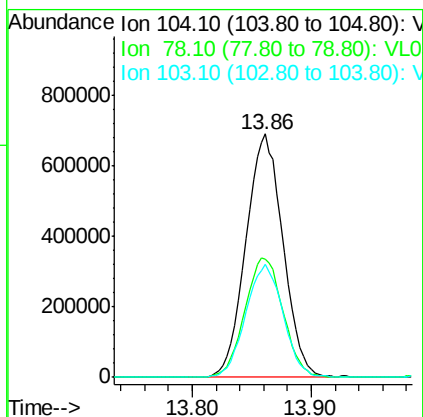
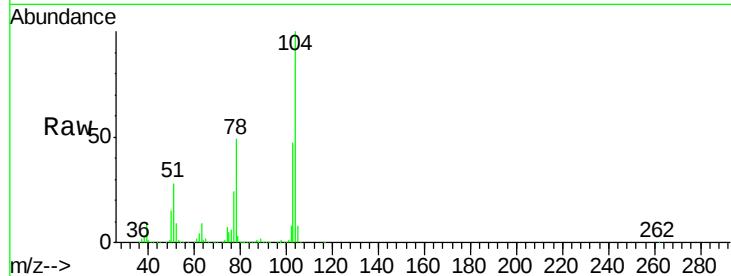
#61
Stvrene
Concen: 8.61 ppbv
RT: 13.86 min Scan# 3973
Delta R.T. 0.00 min
Lab File: VL031264.D
Acq: 20 Dec 2017 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
104	100		
78	50.7	39.1	58.7
103	46.8	37.3	55.9

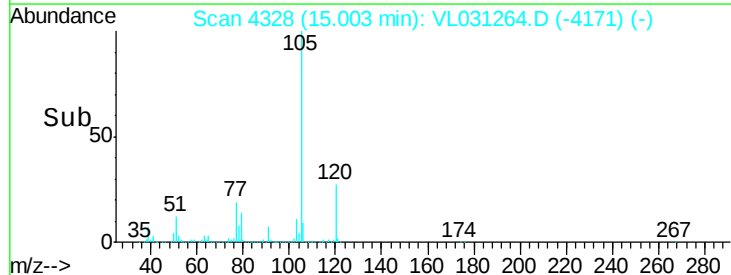
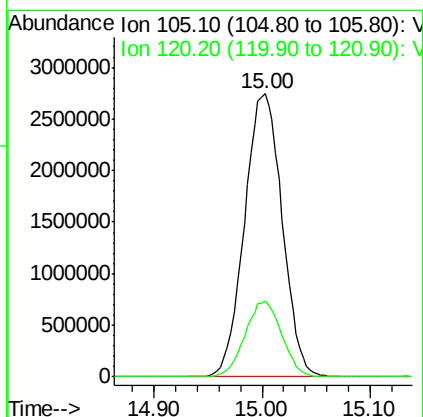
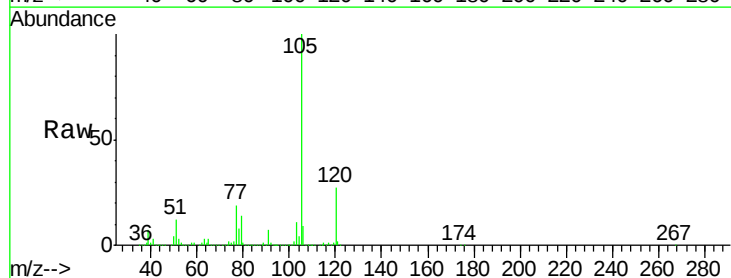
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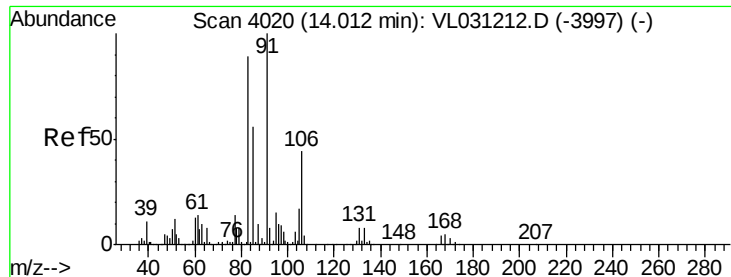
MMDadoda
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#62
Isopropylbenzene
Concen: 8.40 ppbv
RT: 15.00 min Scan# 4328
Delta R.T. 0.00 min
Lab File: VL031264.D
Acq: 20 Dec 2017 9:38

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.1	21.0	31.6





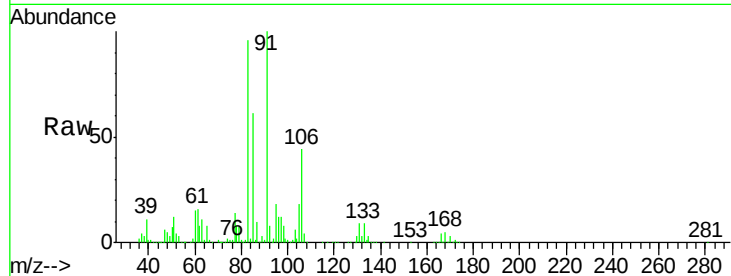
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.14 ppbv
 RT: 14.01 min Scan# 4020
 Delta R.T. 0.00 min
 Lab File: VL031264.D
 Acq: 20 Dec 2017 9:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

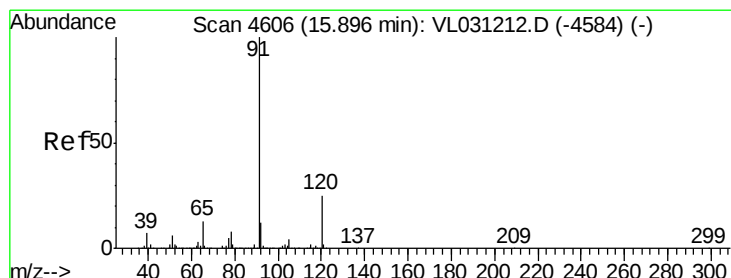
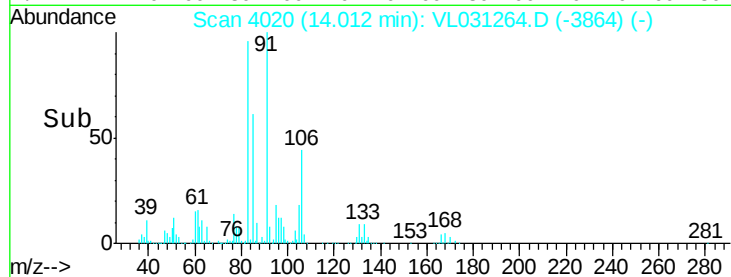
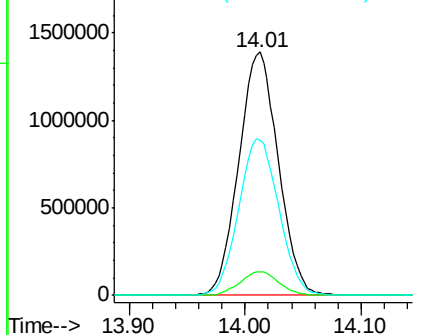
Tot Ion: 83 Resp: 3290926
 Ion Ratio Lower Upper
 83 100
 131 9.7 4.8 14.3
 85 65.7 32.1 96.5

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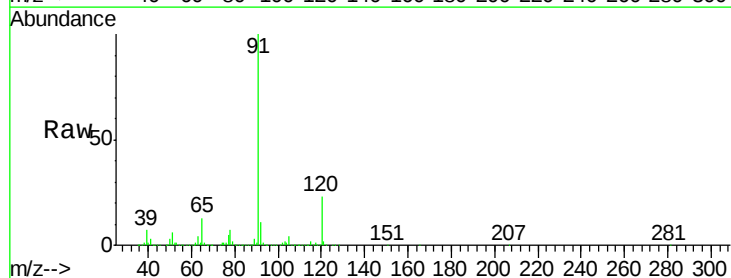


Abundance Ion 83.00 (82.70 to 83.70): VL0
 Ion 131.00 (130.70 to 131.70): V
 Ion 85.00 (84.70 to 85.70): VL0

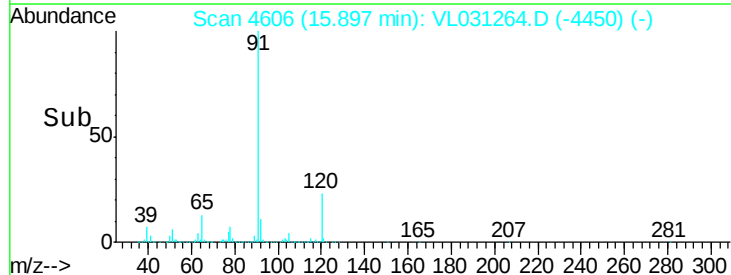
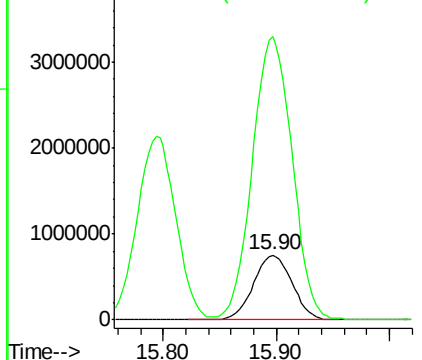


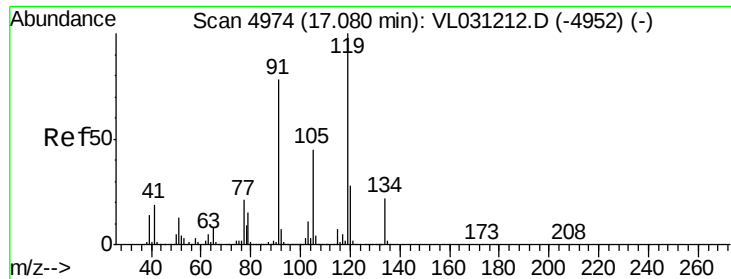
#64
 n-propylbenzene
 Concen: 8.48 ppbv
 RT: 15.90 min Scan# 4606
 Delta R.T. 0.00 min
 Lab File: VL031264.D
 Acq: 20 Dec 2017 9:38

Tgt Ion:120 Resp: 1780077
 Ion Ratio Lower Upper
 120 100
 91 452.2 352.1 528.1



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





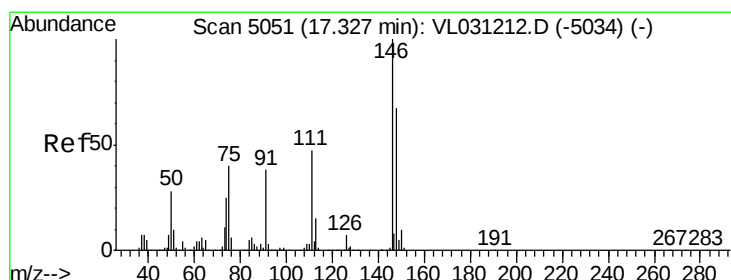
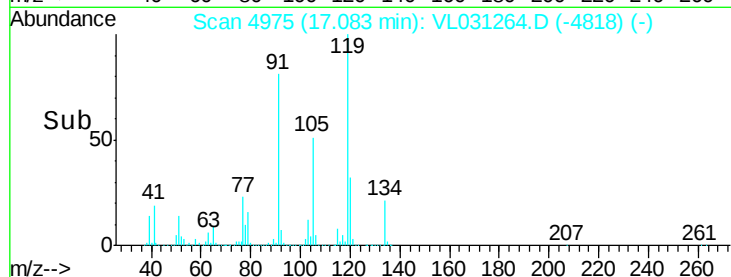
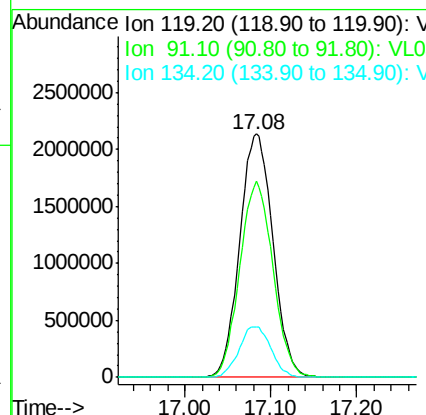
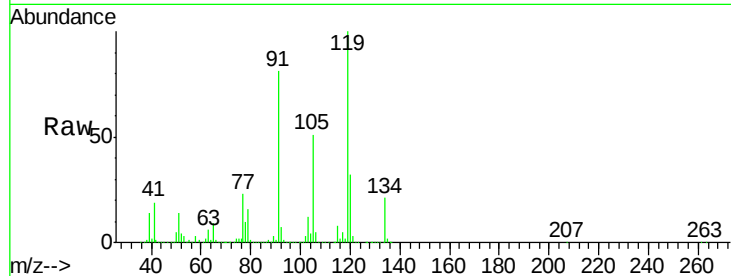
#65
tert-Butylbenzene
Concen: 8.17 ppbv
RT: 17.08 min Scan# 4975
Delta R.T. 0.00 min
Lab File: VL031264.D
Acq: 20 Dec 2017 9:38

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:119 Resp: 5727905
Ion Ratio Lower Upper
119 100
91 80.4 63.3 94.9
134 20.1 16.1 24.1

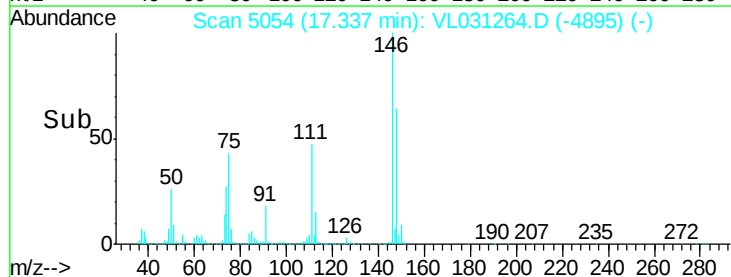
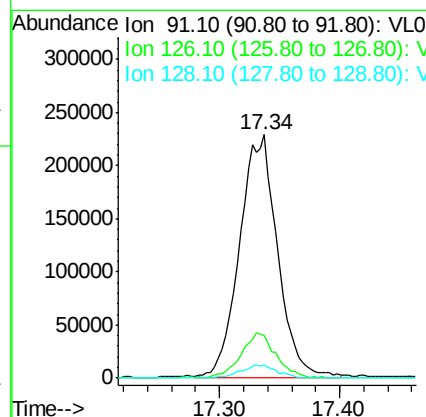
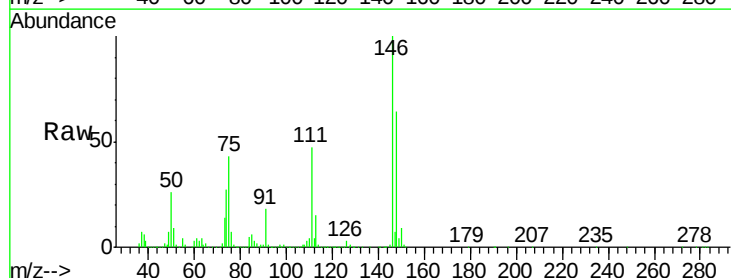
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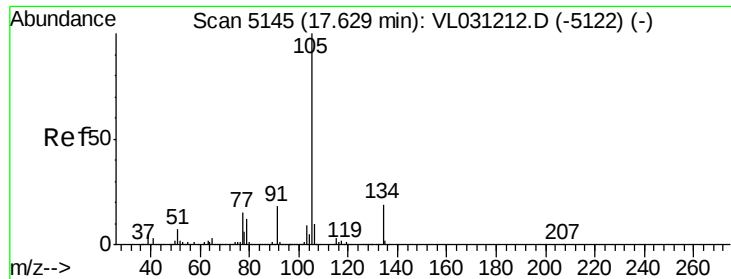
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#66
Benzyl Chloride
Concen: 6.72 ppbv m
RT: 17.34 min Scan# 5054
Delta R.T. 0.01 min
Lab File: VL031264.D
Acq: 20 Dec 2017 9:38

Tgt Ion: 91 Resp: 507431
Ion Ratio Lower Upper
91 100
126 17.4 15.2 22.8
128 0.0 4.9 7.3#





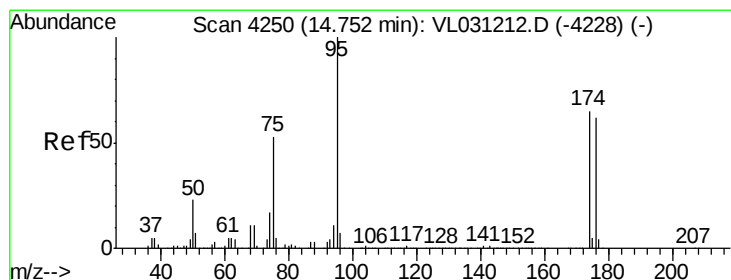
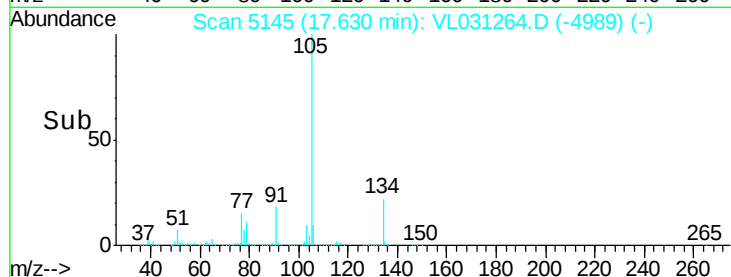
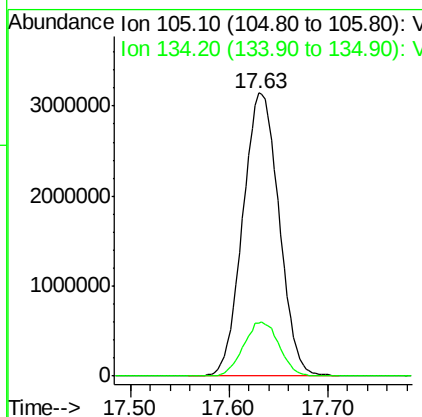
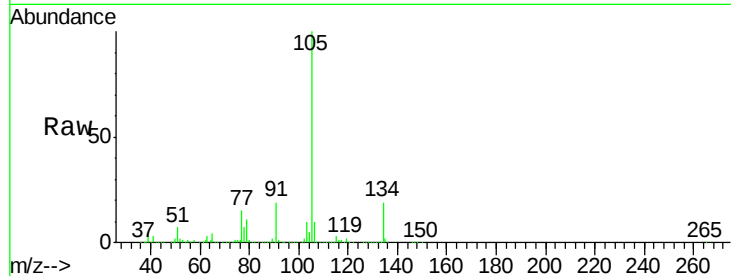
#67
 sec-Butylbenzene
 Concen: 8.27 ppbv
 RT: 17.63 min Scan# 5145
 Delta R.T. 0.00 min
 Lab File: VL031264.D
 Acq: 20 Dec 2017 9:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 105 Resp: 7971497
 Ion Ratio Lower Upper
 105 100
 134 18.9 15.3 22.9

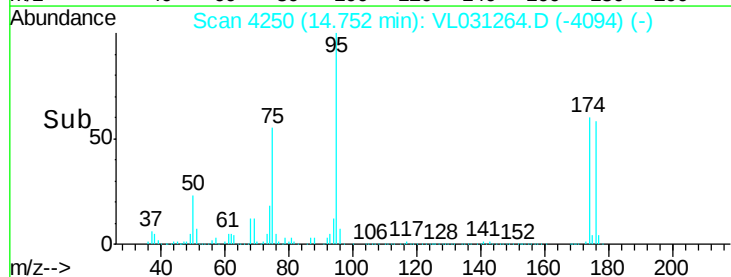
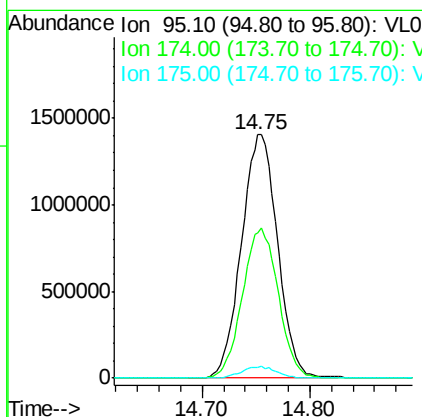
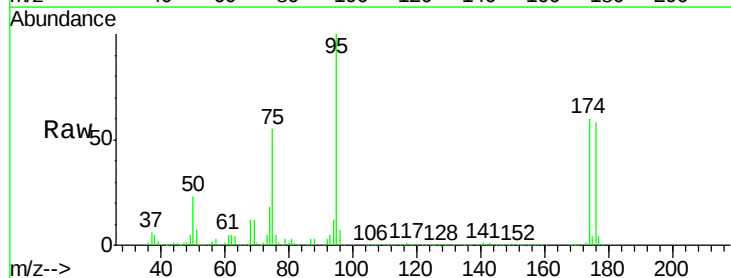
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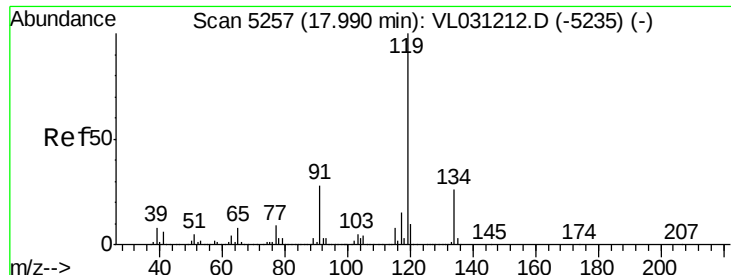
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.14 ppbv
 RT: 14.75 min Scan# 4250
 Delta R.T. 0.00 min
 Lab File: VL031264.D
 Acq: 20 Dec 2017 9:38

Tgt Ion: 95 Resp: 3268369
 Ion Ratio Lower Upper
 95 100
 174 61.6 52.5 78.7
 175 4.7 4.1 6.1





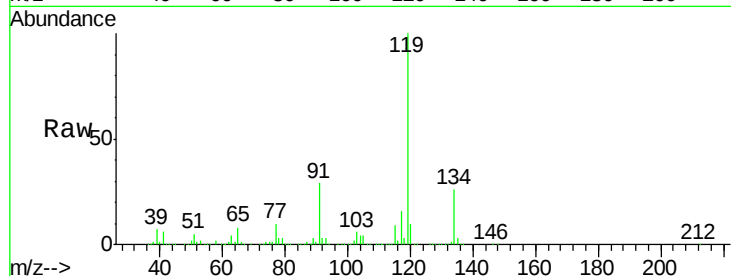
#69
 p-Isopropyltoluene
 Concen: 8.22 ppbv
 RT: 17.99 min Scan# 5256
 Delta R.T. -0.00 min
 Lab File: VL031264.D
 Acq: 20 Dec 2017 9:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

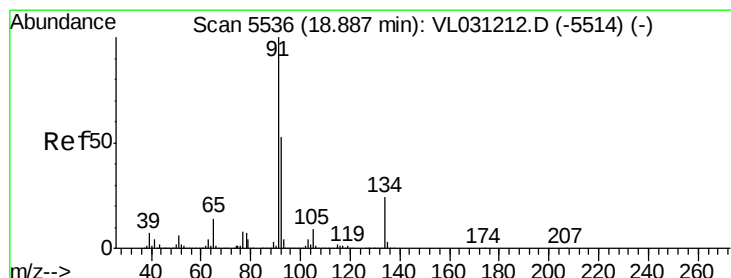
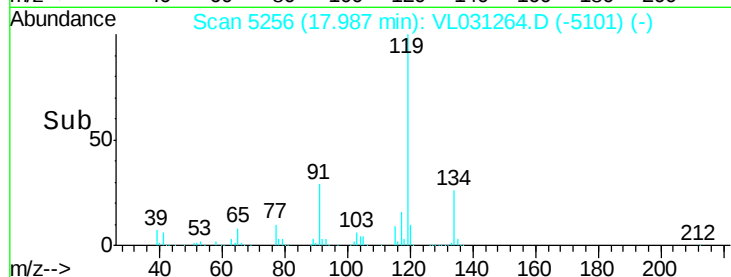
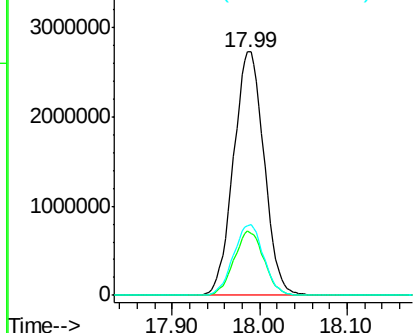
Tot Ion	Ratio	Lower	Upper
119	100		
134	25.9	20.7	31.1
91	29.0	22.3	33.5

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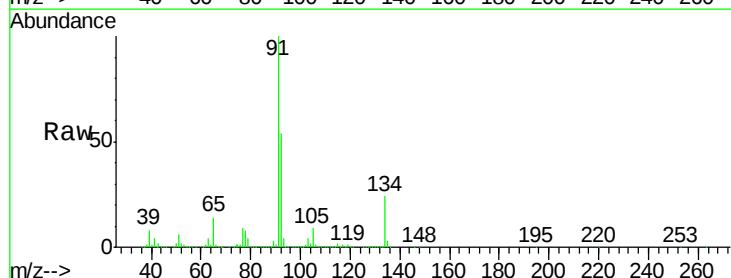


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

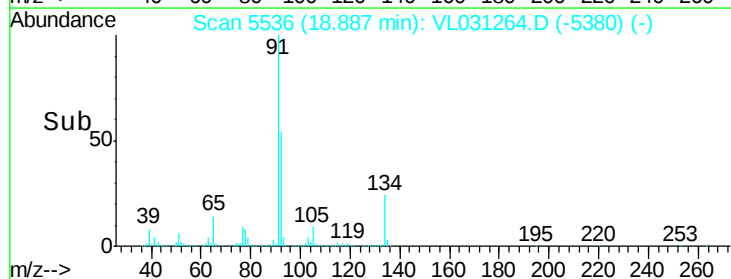
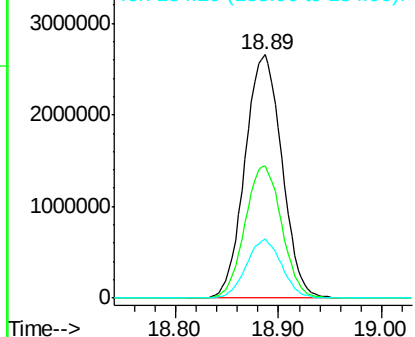


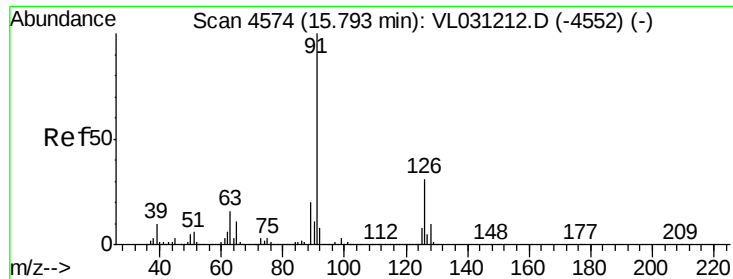
#70
 n-Butylbenzene
 Concen: 8.53 ppbv
 RT: 18.89 min Scan# 5536
 Delta R.T. 0.00 min
 Lab File: VL031264.D
 Acq: 20 Dec 2017 9:38

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.0	43.4	65.2
134	23.2	19.3	28.9



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





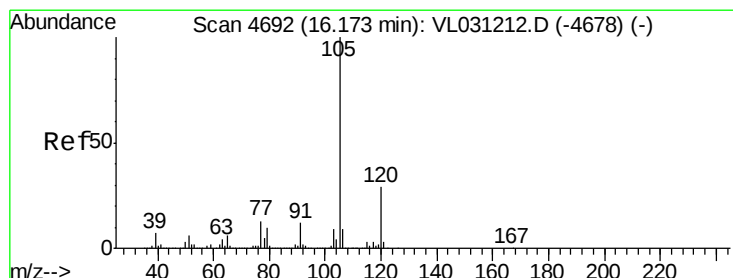
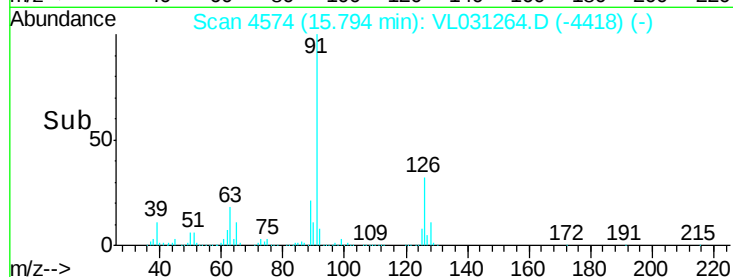
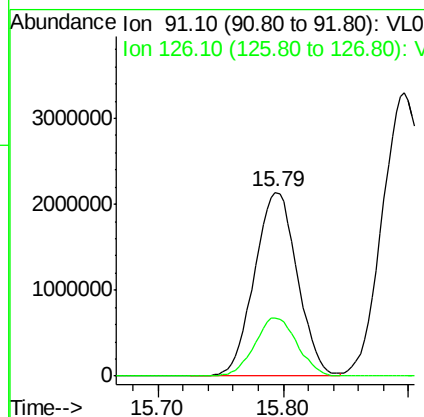
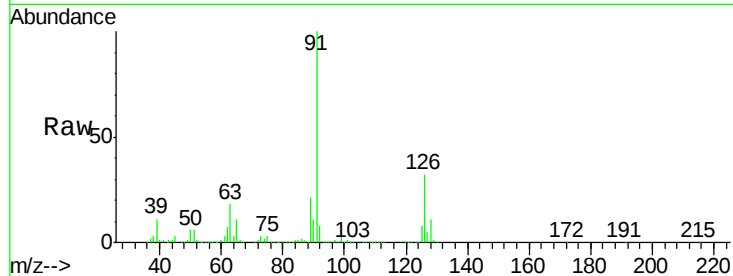
#71
 2-Chlorotoluene
 Concen: 8.67 ppbv
 RT: 15.79 min Scan# 4574
 Delta R.T. 0.00 min
 Lab File: VL031264.D
 Acq: 20 Dec 2017 9:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 91 Resp: 5094380
 Ion Ratio Lower Upper
 91 100
 126 31.5 12.6 50.6

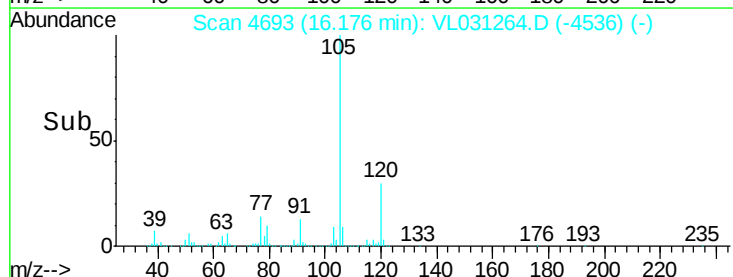
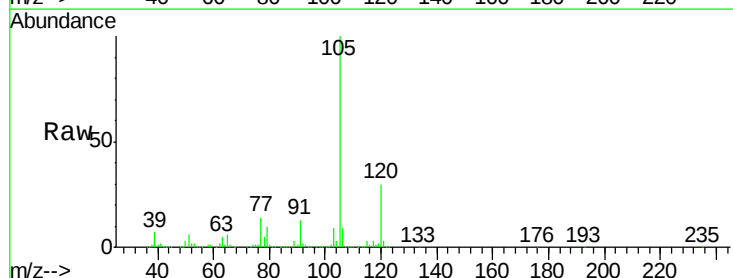
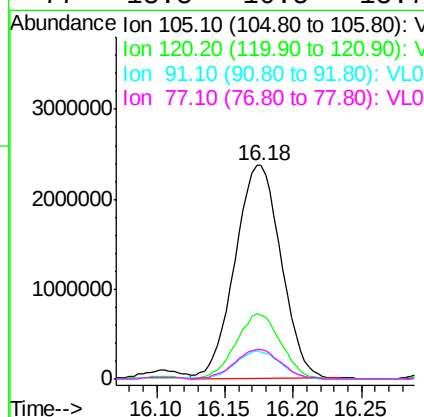
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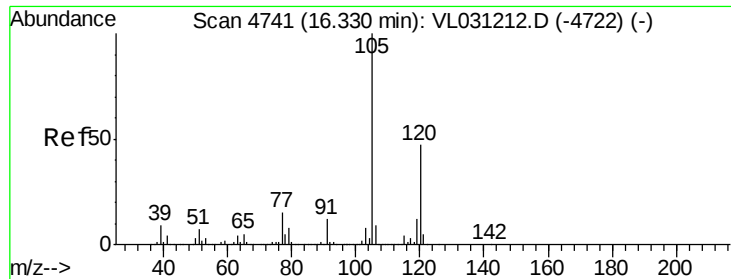
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#72
 4-Ethyltoluene
 Concen: 8.44 ppbv
 RT: 16.18 min Scan# 4693
 Delta R.T. 0.00 min
 Lab File: VL031264.D
 Acq: 20 Dec 2017 9:38

Tgt Ion: 105 Resp: 5577955
 Ion Ratio Lower Upper
 105 100
 120 30.0 24.2 36.2
 91 13.0 9.8 14.8
 77 13.8 10.5 15.7





#73

1,3,5-Trimethylbenzene

Concen: 8.39 ppbv

RT: 16.33 min Scan# 4741

Delta R.T. 0.00 min

Lab File: VL031264.D

Acq: 20 Dec 2017 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 4935280

Ion Ratio Lower Upper

105 100

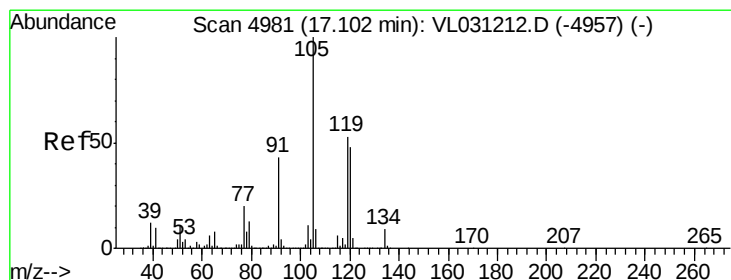
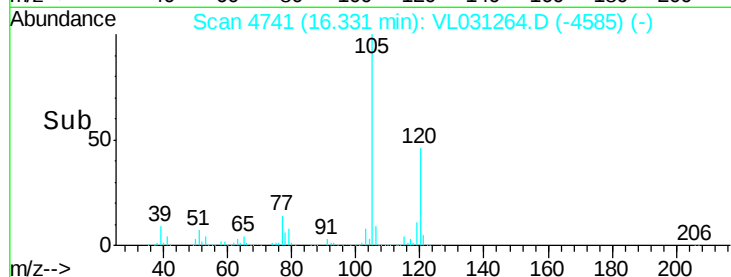
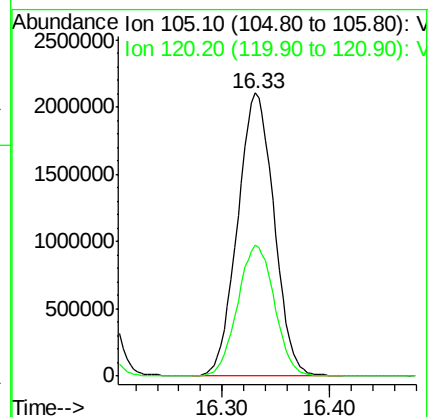
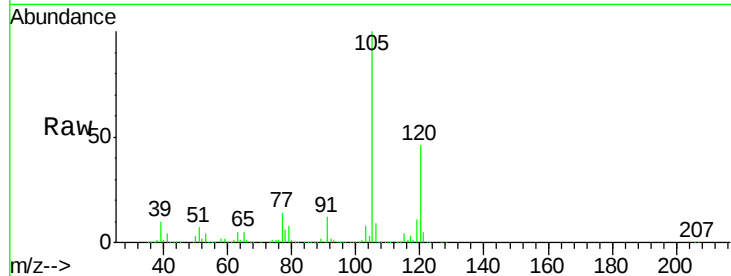
120 46.4 37.8 56.6

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#74

1,2,4-Trimethylbenzene

Concen: 8.22 ppbv

RT: 17.10 min Scan# 4981

Delta R.T. 0.00 min

Lab File: VL031264.D

Acq: 20 Dec 2017 9:38

Tgt Ion:105 Resp: 5085835

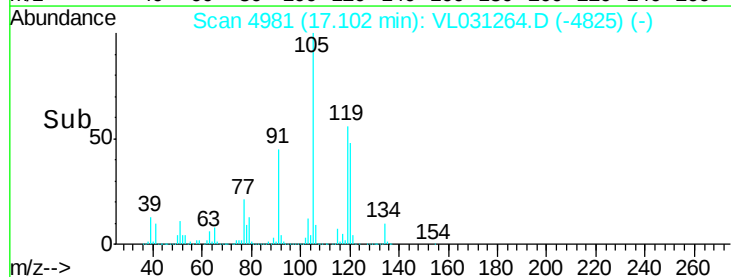
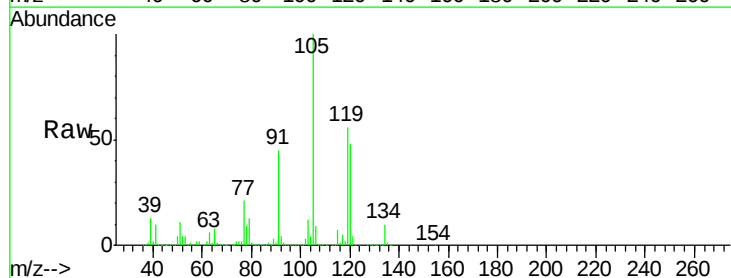
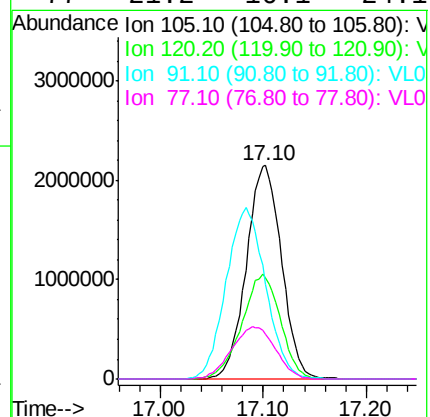
Ion Ratio Lower Upper

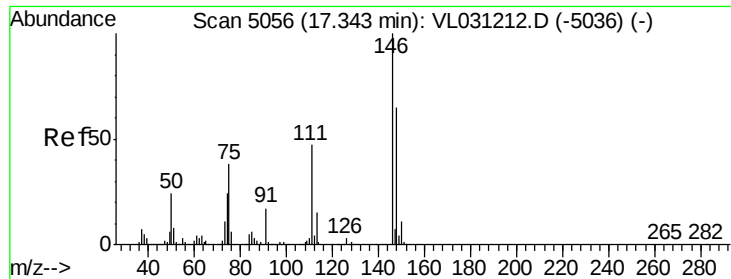
105 100

120 47.4 38.6 58.0

91 44.5 34.2 51.4

77 21.2 16.1 24.1





#75

1,3-Dichlorobenzene

Concen: 8.20 ppbv

RT: 17.34 min Scan# 5056

Delta R.T. 0.00 min

Lab File: VL031264.D

Acq: 20 Dec 2017 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 3217896

Ion Ratio Lower Upper

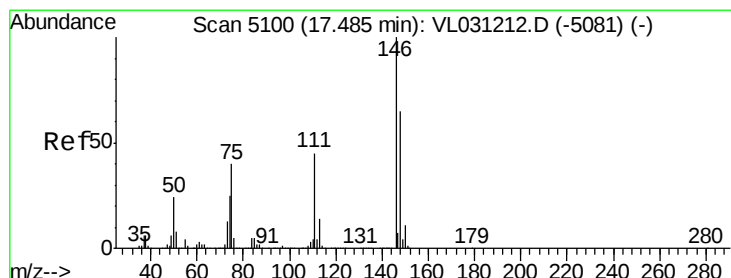
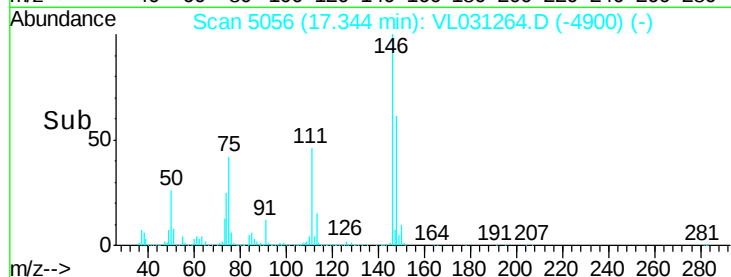
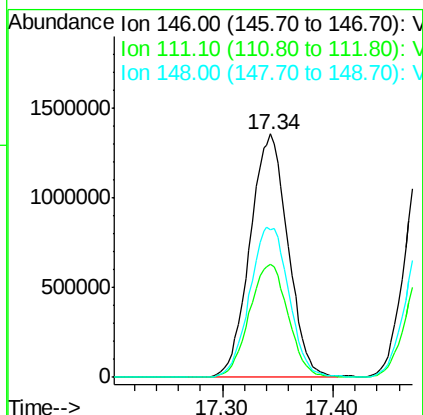
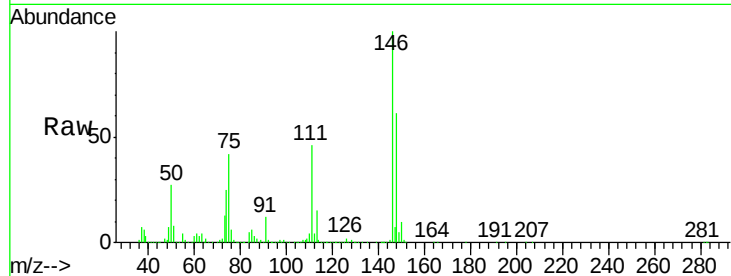
146 100

111 47.6 22.7 68.1

148 64.0 32.0 96.2

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#76

1,4-Dichlorobenzene

Concen: 8.24 ppbv

RT: 17.48 min Scan# 5100

Delta R.T. 0.00 min

Lab File: VL031264.D

Acq: 20 Dec 2017 9:38

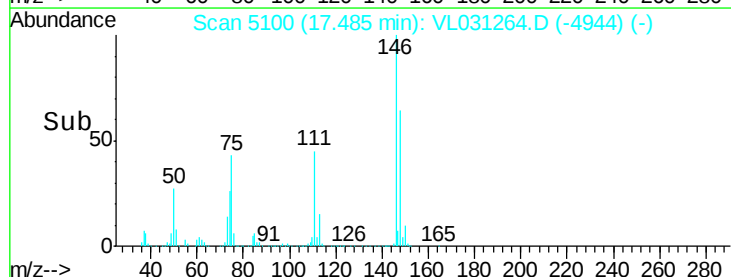
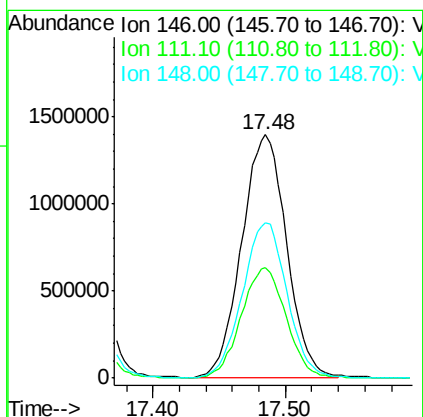
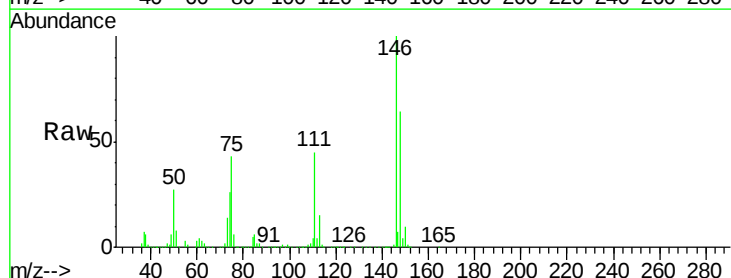
Tgt Ion:146 Resp: 3266961

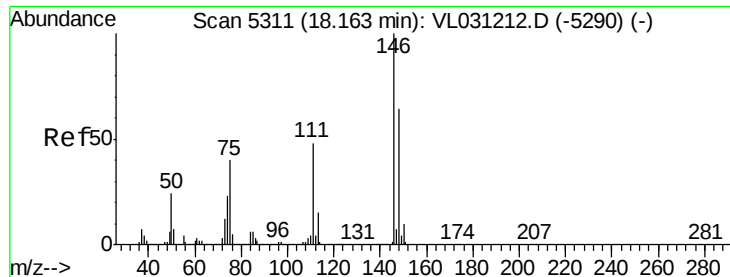
Ion Ratio Lower Upper

146 100

111 45.9 22.1 66.1

148 64.5 32.0 96.0





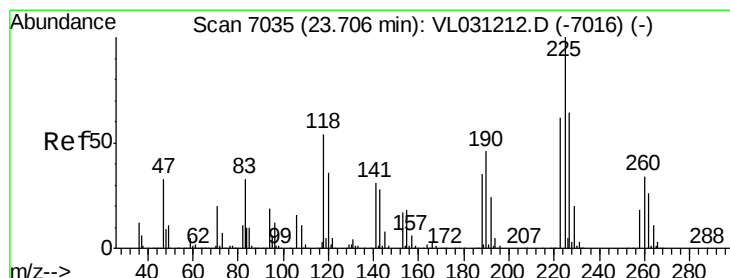
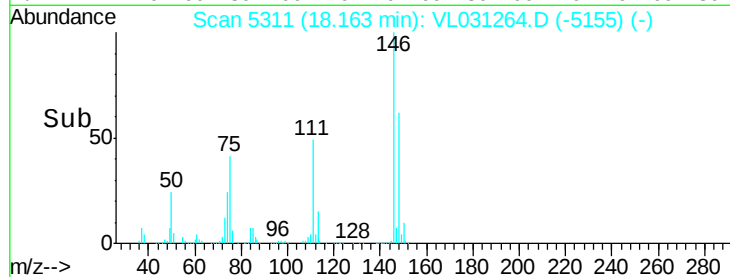
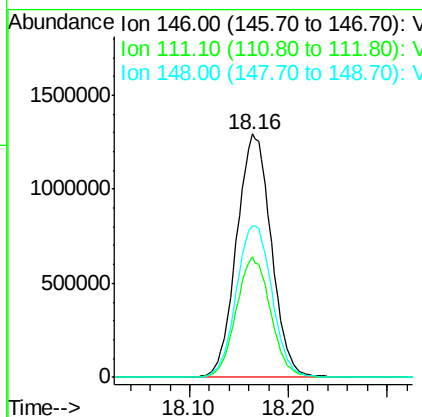
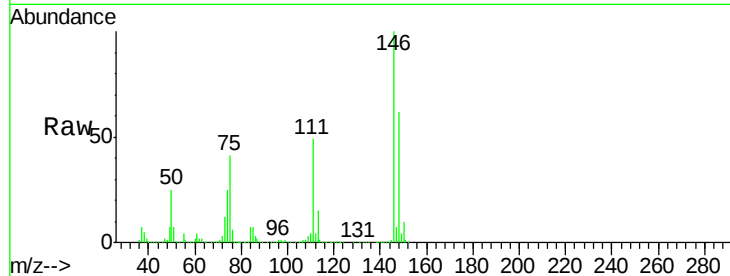
#77
 1,2-Dichlorobenzene
 Concen: 8.22 ppbv
 RT: 18.16 min Scan# 5311
 Delta R.T. 0.00 min
 Lab File: VL031264.D
 Acq: 20 Dec 2017 9:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.9	23.3	69.8
148	64.1	31.9	95.7

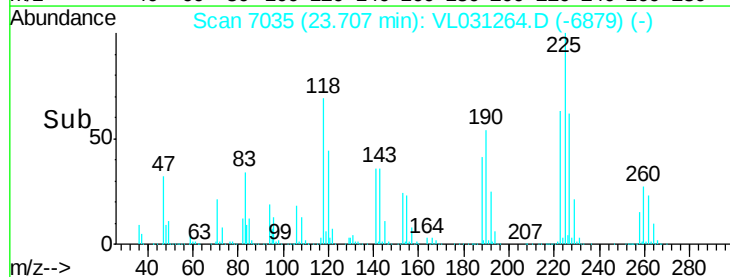
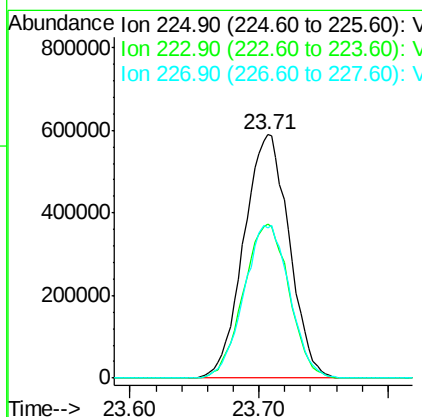
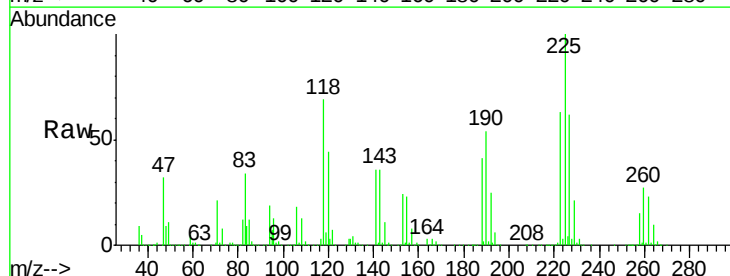
Manual Integrations
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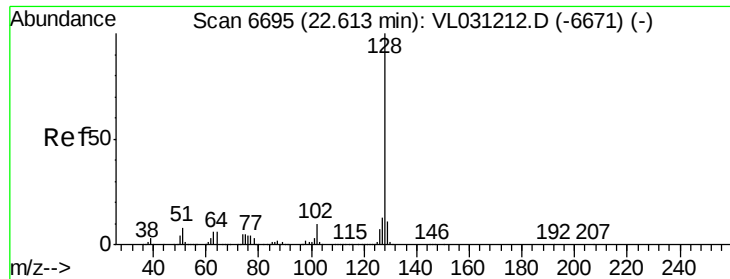
MMDadoda
 12/22/2017 4:54:41 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 16.39 ppbv
 RT: 23.71 min Scan# 7035
 Delta R.T. 0.00 min
 Lab File: VL031264.D
 Acq: 20 Dec 2017 9:38

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.7	50.4	75.6
227	63.2	51.3	76.9





#79

Naphthalene

Concen: 8.24 ppbv

RT: 22.61 min Scan# 6695

Delta R.T. 0.00 min

Lab File: VL031264.D

Acq: 20 Dec 2017 9:38

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:128 Resp: 4124621

Ion Ratio Lower Upper

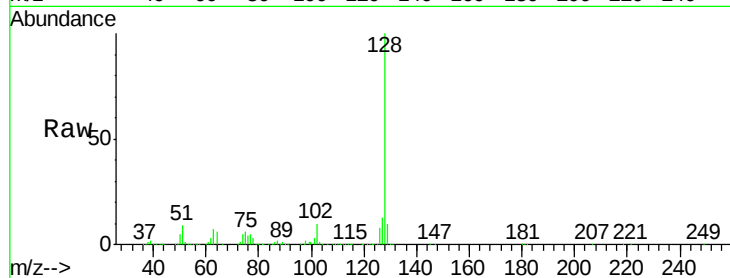
128 100

127 13.1 10.2 15.2

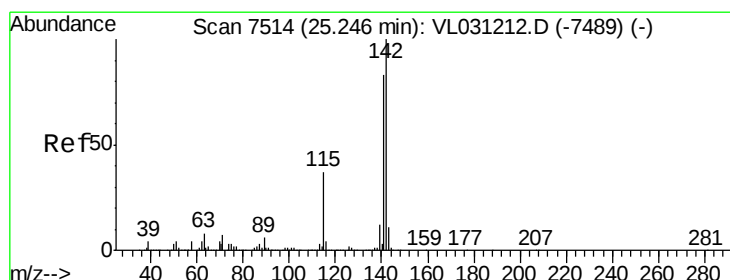
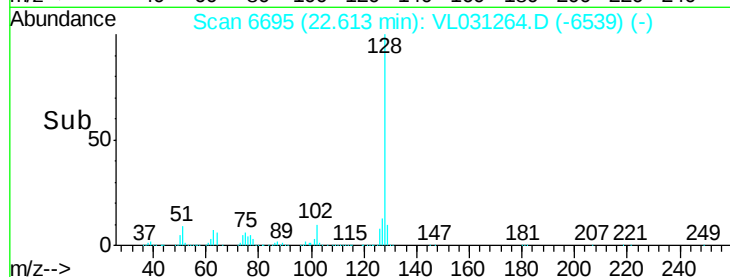
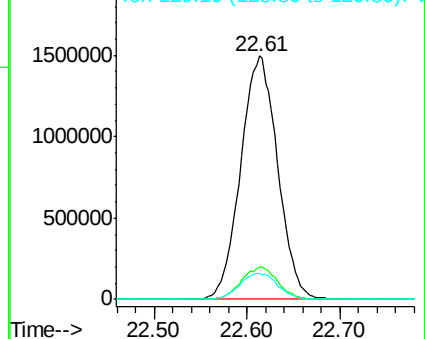
129 10.5 8.9 13.3

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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: 9.59 ppbv

RT: 25.25 min Scan# 7515

Delta R.T. 0.00 min

Lab File: VL031264.D

Acq: 20 Dec 2017 9:38

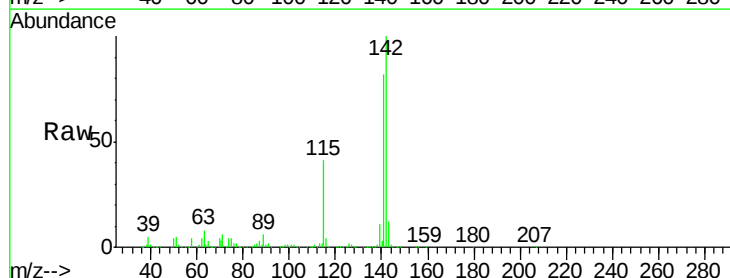
Tgt Ion:142 Resp: 1789276

Ion Ratio Lower Upper

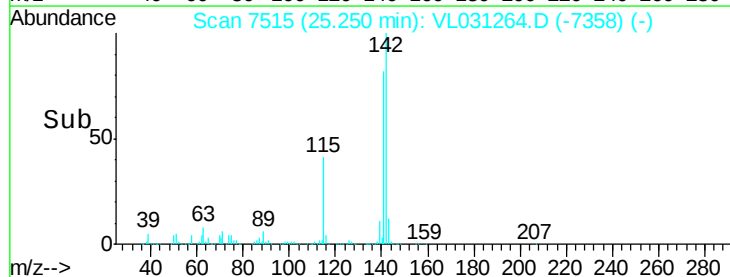
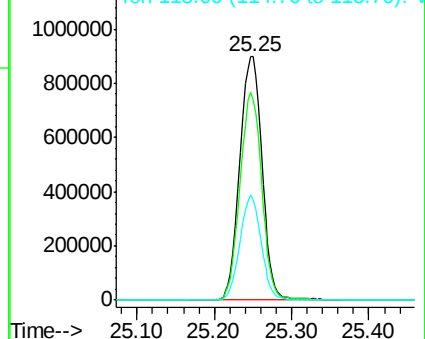
142 100

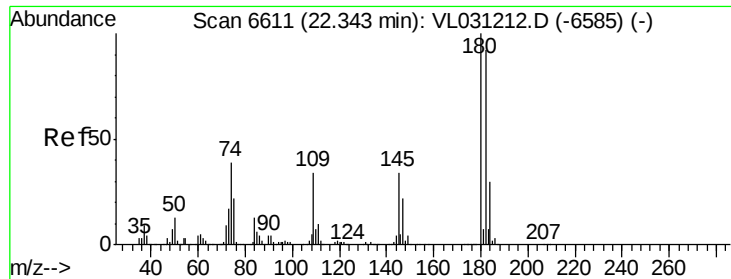
141 83.6 66.8 100.2

115 40.9 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: 8.43 ppbv
 RT: 22.34 min Scan# 6610
 Delta R.T. -0.00 min
 Lab File: VL031264.D
 Acq: 20 Dec 2017 9:38

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	75.9	113.9
184	30.2	24.2	36.2

Manual Integrations
 APPROVED

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 12/22/2017 4:54:41 PM

