

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL012218\
 Data File : VL031416.D
 Acq On : 22 Jan 2018 13:55
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 1/24/2018 5:10:10 PM

Quant Time: Jan 22 17:11:49 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL012218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 18 2018
 QLast Update : Mon Jan 22 16:42:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.90	49	1334018	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.45	114	3186526	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.41	117	3281957	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.75	95	2572055	9.92	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.17	85	357478	1.39	ppbv	97
3) Chlorodifluoromethane	3.11	51	379707	1.93	ppbv	100
4) Chloromethane	3.27	50	172954	1.95	ppbv	98
5) Vinyl Chloride	3.40	62	171770	1.87	ppbv	99
6) Bromomethane	3.62	94	117516	1.92	ppbv	99
7) Chloroethane	3.71	64	69194	1.93	ppbv	98
8) Dichlorotetrafluoroethane	3.32	85	448307	1.90	ppbv	99
9) Propene	3.13	41	134780	1.86	ppbv	100
10) Heptane	8.40	43	430618	1.97	ppbv	99
11) Trichlorofluoromethane	4.13	101	551665	2.01	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.68	101	349564	2.01	ppbv	96
13) Ethanol	3.77	45	37396m	1.03	ppbv	
14) Bromoethene	3.90	108	139990	1.95	ppbv	100
15) Acetone	4.02	43	399260	1.80	ppbv	99
16) 1,3-Butadiene	3.47	39	160674	1.94	ppbv	98
17) tert-Butyl alcohol	4.49	59	186554	1.84	ppbv	100
18) 1,1-Dichloroethene	4.48	96	149388	1.96	ppbv	96
19) Isopropyl Alcohol	4.14	45	239027	1.58	ppbv #	98
20) Methylene Chloride	4.53	84	150016	1.88	ppbv	95
21) Allyl Chloride	4.60	41	229054	1.91	ppbv	98
22) trans-1,2-Dichloroethene	5.10	96	153783	1.89	ppbv	99
23) Vinyl Acetate	5.29	43	470353	1.87	ppbv	98
24) 1,1-Dichloroethane	5.22	63	409769	1.93	ppbv	99
25) Ethyl Acetate	5.91	43	672034	1.78	ppbv	100
26) Hexane	5.92	57	300497	1.90	ppbv	99
27) Carbon Disulfide	4.75	76	402526	1.91	ppbv	98
28) Methyl tert-Butyl Ether	5.25	73	371812	1.93	ppbv	99
29) Chloroform	5.99	83	508387	1.87	ppbv	100
30) Cyclohexane	7.40	84	238322	1.88	ppbv #	82
31) cis-1,2-Dichloroethene	5.78	61	285197	1.85	ppbv	94
32) 1,1,1-Trichloroethane	6.77	97	522986	1.84	ppbv	98
34) 2-Butanone	5.47	43	435274	1.64	ppbv	100
35) Carbon Tetrachloride	7.29	117	543288	1.79	ppbv	94
36) Benzene	7.16	78	602635	1.83	ppbv	98
37) 1,2-Dichloroethane	6.56	62	456900	1.88	ppbv	100
38) Trichloroethene	8.12	130	247024	1.80	ppbv	93
39) 1,2-Dichloropropane	7.89	63	225971	1.85	ppbv	97
40) 1,4-Dioxane	8.13	88	87488	1.43	ppbv #	56
41) Tetrahydrofuran	6.31	42	235147	1.75	ppbv	96
42) Bromodichloromethane	8.08	83	568833	1.90	ppbv	99
43) Methyl Methacrylate	8.30	69	224595	1.83	ppbv	99

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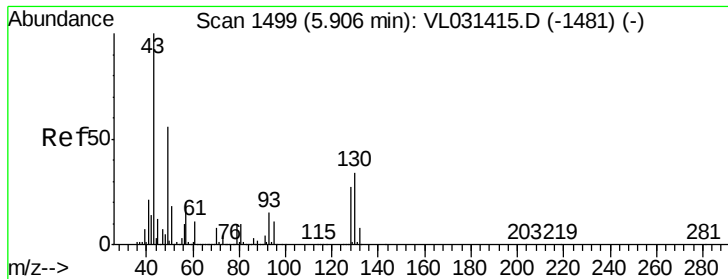
Manual Integrations
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Quant Time: Jan 22 17:11:49 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL012218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Jan 18
 QLast Update : Mon Jan 22 16:42:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.15	57	1075938	1.95	ppbv	100
45) t-1,3-Dichloropropene	9.58	75	311500	1.84	ppbv	98
46) cis-1,3-Dichloropropene	9.00	75	388987	1.86	ppbv	99
47) 1,1,2-Trichloroethane	9.78	97	266665	1.86	ppbv	97
48) Dibromochloromethane	10.62	129	470737	1.85	ppbv	99
49) Bromoform	13.37	173	357126	1.79	ppbv	99
50) 4-Methyl-2-Pentanone	9.04	43	605806	1.73	ppbv	98
51) 2-Hexanone	10.45	43	568342	1.60	ppbv #	97
52) Tetrachloroethene	11.54	164	231411	1.78	ppbv	95
53) Toluene	10.12	91	731342	1.88	ppbv	98
54) 1,2-Dibromoethane	10.93	107	414686	1.84	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.45	131	327824m	1.94	ppbv	
57) Chlorobenzene	12.47	112	605113	1.95	ppbv	99
58) Ethyl Benzene	13.03	91	1045955	1.95	ppbv	99
59) m/p-Xylene	13.29	91	1783924m	4.02	ppbv	
60) o-Xylene	14.02	91	909196	2.01	ppbv	98
61) Styrene	13.85	104	196333	1.98	ppbv	99
62) Isopropylbenzene	14.99	105	1132925	1.99	ppbv	100
63) 1,1,2,2-Tetrachloroethane	14.01	83	615455	1.80	ppbv	99
64) n-propylbenzene	15.90	120	280177m	1.96	ppbv	
65) tert-Butylbenzene	17.07	119	1020566	2.02	ppbv	98
66) Benzyl Chloride	17.32	91	94674m	1.99	ppbv	
67) sec-Butylbenzene	17.63	105	1444511	2.01	ppbv	99
69) p-Isopropyltoluene	17.98	119	1164391	2.04	ppbv	99
70) n-Butylbenzene	18.88	91	1239012	2.08	ppbv	98
71) 2-Chlorotoluene	15.79	91	863080	1.98	ppbv	100
72) 4-Ethyltoluene	16.17	105	933144	2.02	ppbv	99
73) 1,3,5-Trimethylbenzene	16.32	105	848193	2.06	ppbv	95
74) 1,2,4-Trimethylbenzene	17.09	105	937175	2.09	ppbv #	92
75) 1,3-Dichlorobenzene	17.34	146	577017	2.00	ppbv	99
76) 1,4-Dichlorobenzene	17.48	146	561574	1.96	ppbv	98
77) 1,2-Dichlorobenzene	18.16	146	560585	1.97	ppbv	100
78) Hexachloro-1,3-Butadiene	23.71	225	173412m	1.90	ppbv	
79) Naphthalene	22.61	128	582584	2.68	ppbv	96
80) Naphthalene, 2-methyl-	25.25	142	128030	2.37	ppbv	98
81) 1,2,4-Trichlorobenzene	22.34	180	305419	2.41	ppbv	99

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.90 min Scan# 1498

Delta R.T. -0.01 min

Lab File: VL031416.D

Acq: 22 Jan 2018 13:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 49 Resp: 1334018

Ion Ratio Lower Upper

49 100

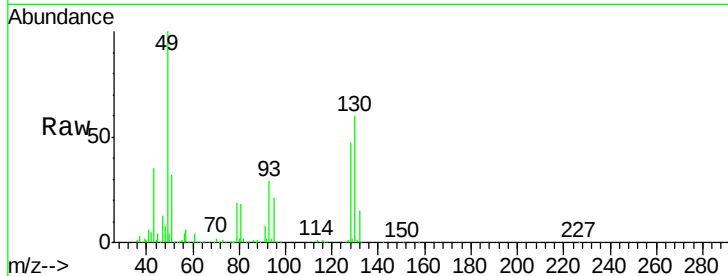
128 47.1 23.5 70.6

130 59.9 29.9 89.7

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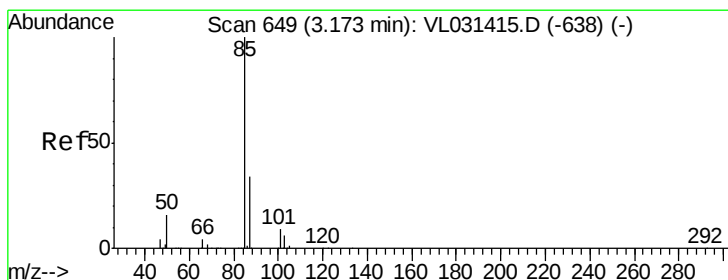
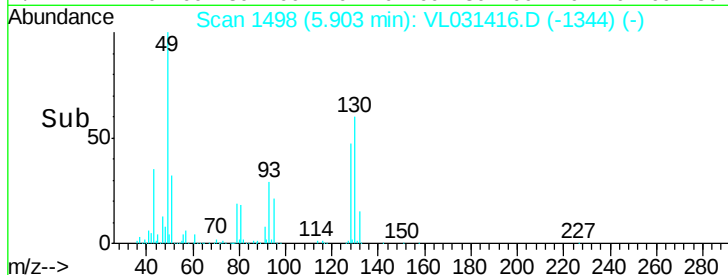
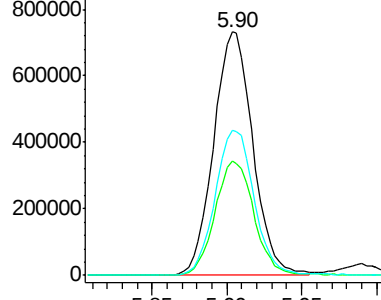
1/24/2018 5:10:10 PM



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: 1.39 ppbv

RT: 3.17 min Scan# 649

Delta R.T. -0.00 min

Lab File: VL031416.D

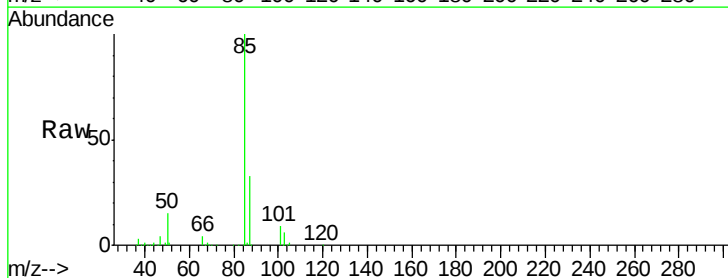
Acq: 22 Jan 2018 13:55

Tgt Ion: 85 Resp: 357478

Ion Ratio Lower Upper

85 100

87 32.5 27.4 41.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

Ion 89.00 (88.70 to 89.70): VL0

Ion 91.00 (90.70 to 91.70): VL0

Ion 93.00 (92.70 to 93.70): VL0

Ion 95.00 (94.70 to 95.70): VL0

Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 101.00 (100.70 to 101.70): VL0

Ion 103.00 (102.70 to 103.70): VL0

Ion 105.00 (104.70 to 105.70): VL0

Ion 107.00 (106.70 to 107.70): VL0

Ion 109.00 (108.70 to 109.70): VL0

Ion 111.00 (110.70 to 111.70): VL0

Ion 113.00 (112.70 to 113.70): VL0

Ion 115.00 (114.70 to 115.70): VL0

Ion 117.00 (116.70 to 117.70): VL0

Ion 119.00 (118.70 to 119.70): VL0

Ion 121.00 (120.70 to 121.70): VL0

Ion 123.00 (122.70 to 123.70): VL0

Ion 125.00 (124.70 to 125.70): VL0

Ion 127.00 (126.70 to 127.70): VL0

Ion 129.00 (128.70 to 129.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 133.00 (132.70 to 133.70): VL0

Ion 135.00 (134.70 to 135.70): VL0

Ion 137.00 (136.70 to 137.70): VL0

Ion 139.00 (138.70 to 139.70): VL0

Ion 141.00 (140.70 to 141.70): VL0

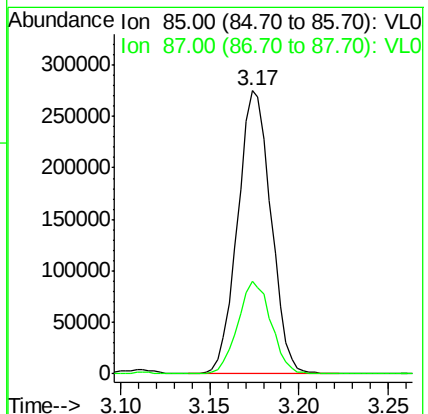
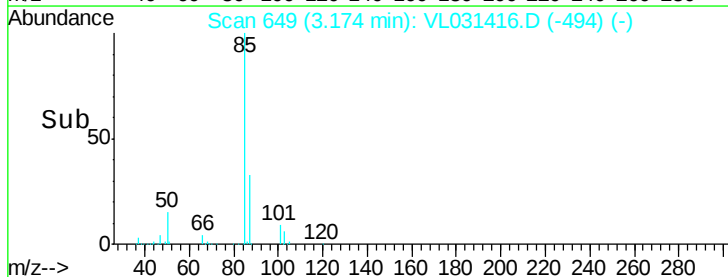
Ion 143.00 (142.70 to 143.70): VL0

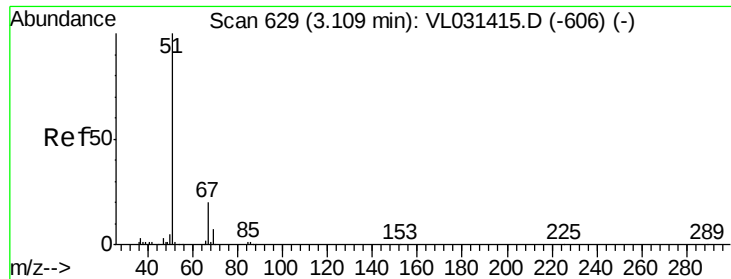
Ion 145.00 (144.70 to 145.70): VL0

Ion 147.00 (146.70 to 147.70): VL0

Ion 149.00 (148.70 to 149.70): VL0

Ion 151.00 (150.70 to 151.70): VL0





#3

Chlorodifluoromethane

Concen: 1.93 ppbv

RT: 3.11 min Scan# 629

Delta R.T. -0.00 min

Lab File: VL031416.D

Acq: 22 Jan 2018 13:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 51 Resp: 379707

Ion Ratio Lower Upper

51 100

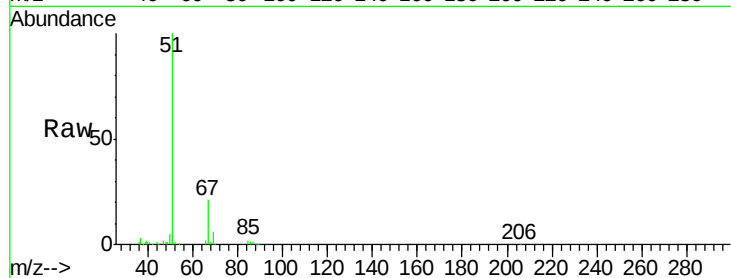
67 19.8 16.0 24.0

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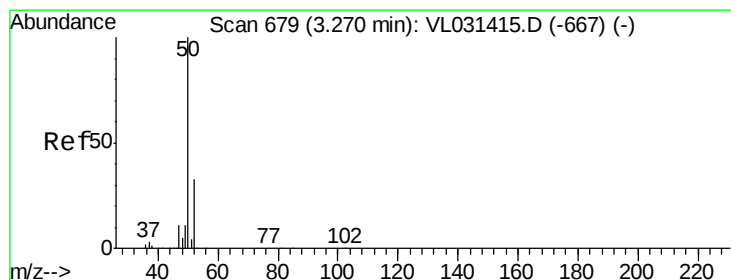
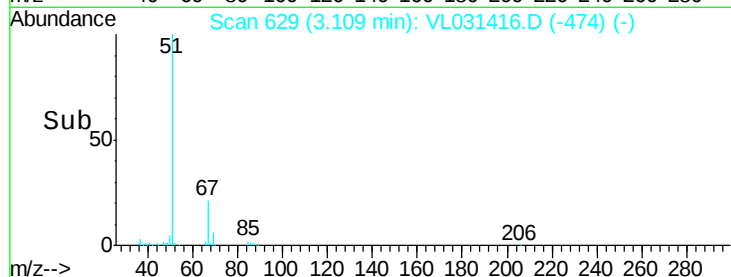
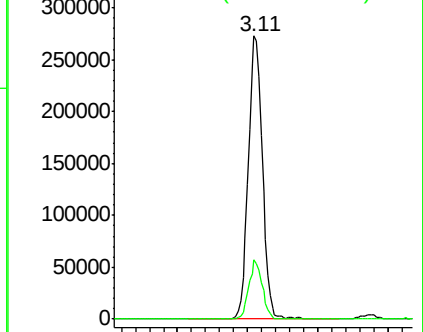
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 1.95 ppbv

RT: 3.27 min Scan# 680

Delta R.T. 0.00 min

Lab File: VL031416.D

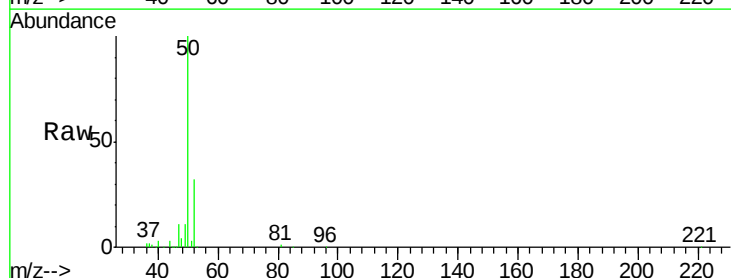
Acq: 22 Jan 2018 13:55

Tgt Ion: 50 Resp: 172954

Ion Ratio Lower Upper

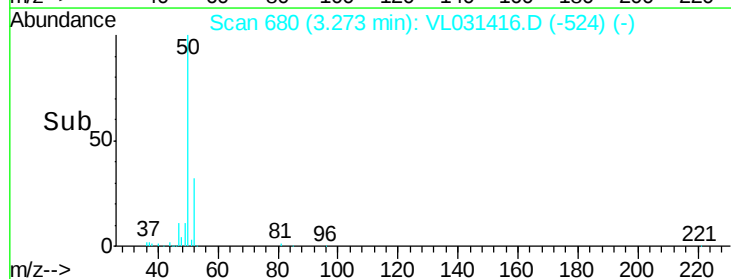
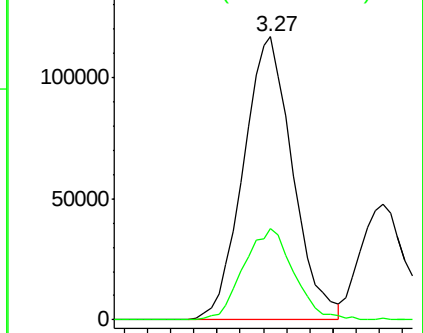
50 100

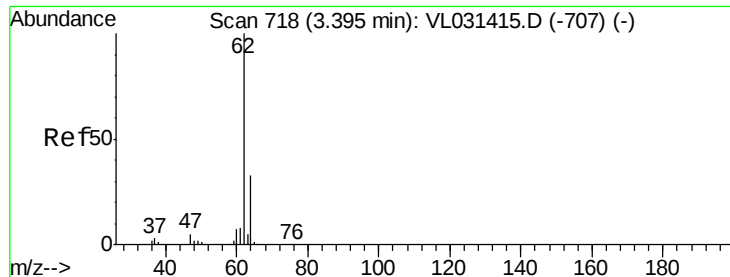
52 32.1 26.4 39.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 1.87 ppbv

RT: 3.40 min Scan# 718

Delta R.T. -0.00 min

Lab File: VL031416.D

Acq: 22 Jan 2018 13:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 171770

Ion Ratio Lower Upper

62 100

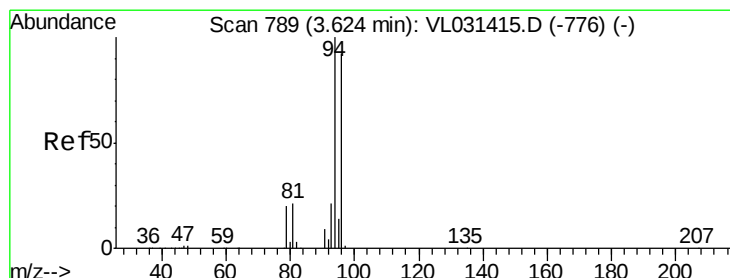
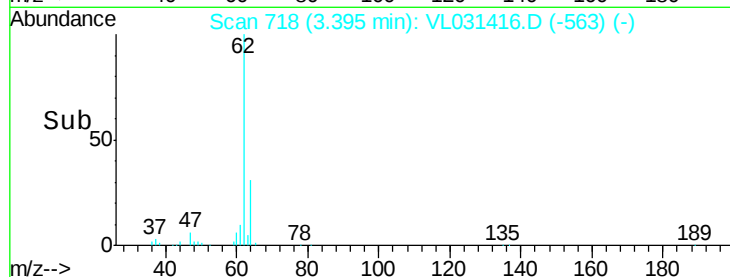
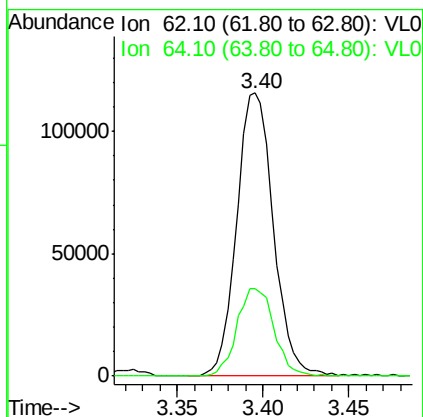
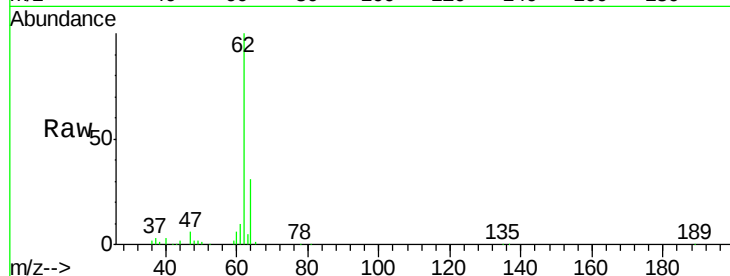
64 30.9 25.4 38.0

Manual Integrations

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#6

Bromomethane

Concen: 1.92 ppbv

RT: 3.62 min Scan# 789

Delta R.T. -0.00 min

Lab File: VL031416.D

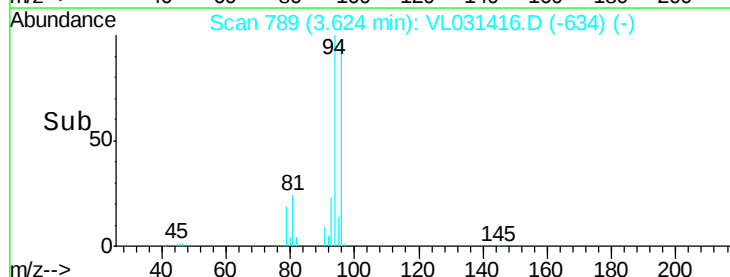
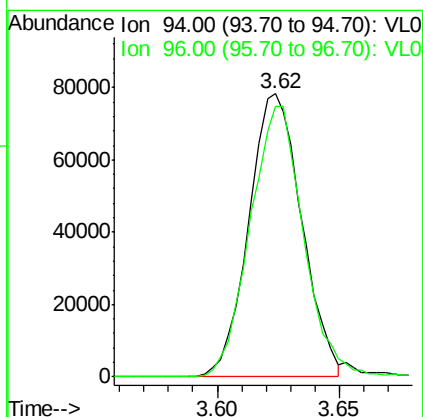
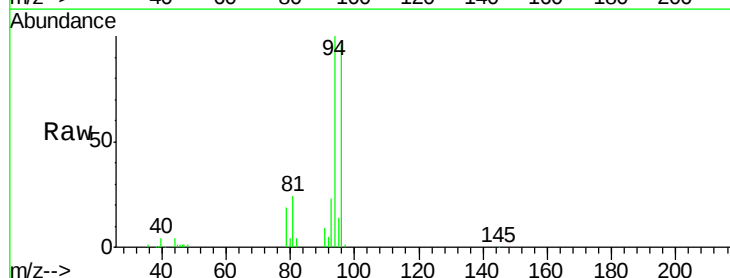
Acq: 22 Jan 2018 13:55

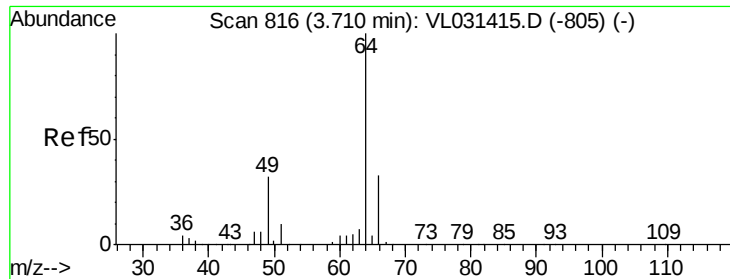
Tgt Ion: 94 Resp: 117516

Ion Ratio Lower Upper

94 100

96 95.2 75.1 112.7





#7

Chloroethane

Concen: 1.93 ppbv

RT: 3.71 min Scan# 816

Delta R.T. -0.00 min

Lab File: VL031416.D

Acq: 22 Jan 2018 13:55

Instrument :

MSVOA_L

ClientSampled :

VSTDIC002

Tot Ion: 64 Resp: 69194

Ion Ratio Lower Upper

64 100

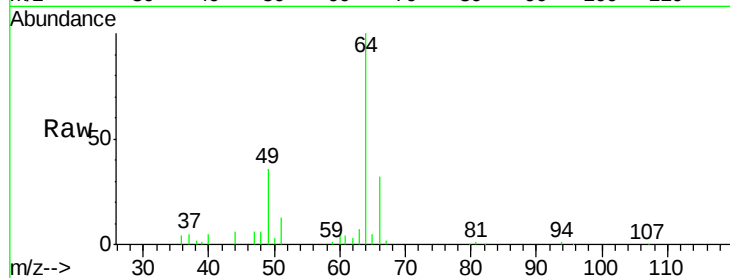
66 31.9 26.3 39.5

Manual Integrations

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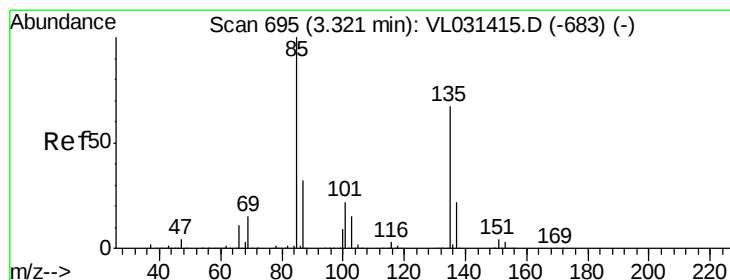
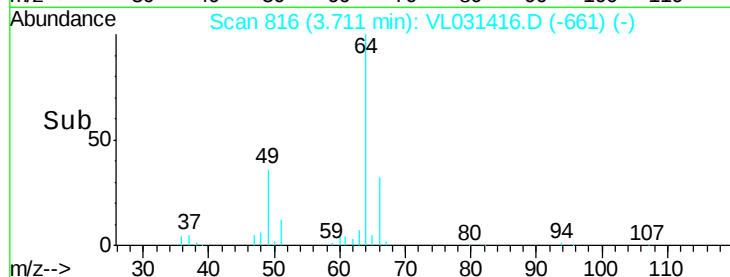
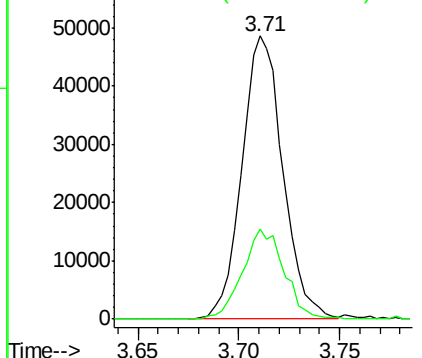
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 1.90 ppbv

RT: 3.32 min Scan# 695

Delta R.T. -0.00 min

Lab File: VL031416.D

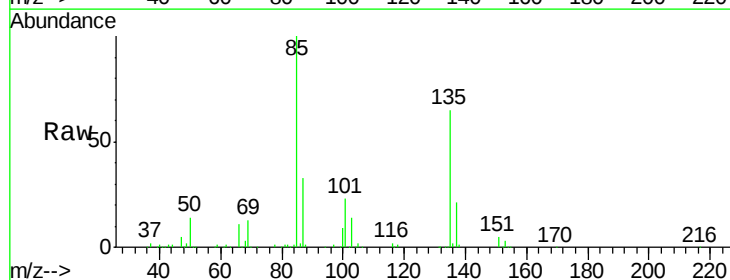
Acq: 22 Jan 2018 13:55

Tgt Ion: 85 Resp: 448307

Ion Ratio Lower Upper

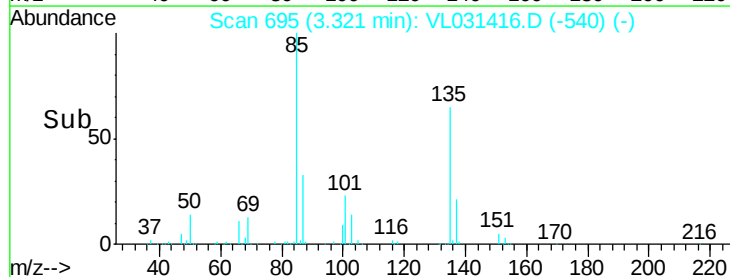
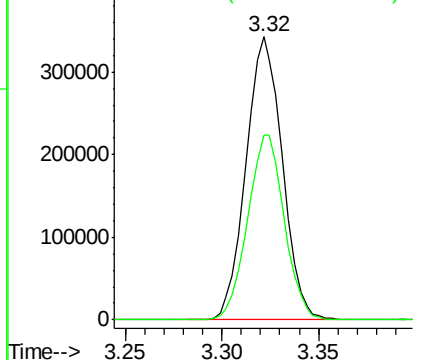
85 100

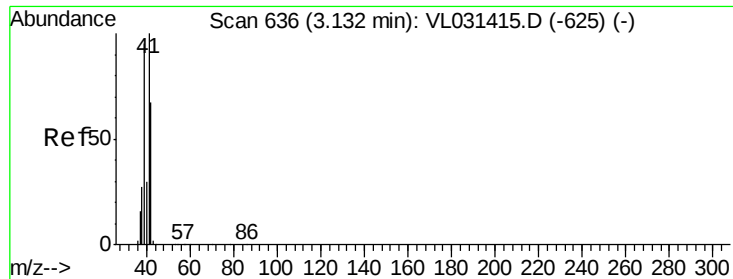
135 66.0 53.3 79.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 1.86 ppbv

RT: 3.13 min Scan# 637

Delta R.T. -0.00 min

Lab File: VL031416.D

Acq: 22 Jan 2018 13:55

Instrument :

MSVOA_L

ClientSampled :

VSTDIC002

Tot Ion: 41 Resp: 134780

Ion Ratio Lower Upper

41 100

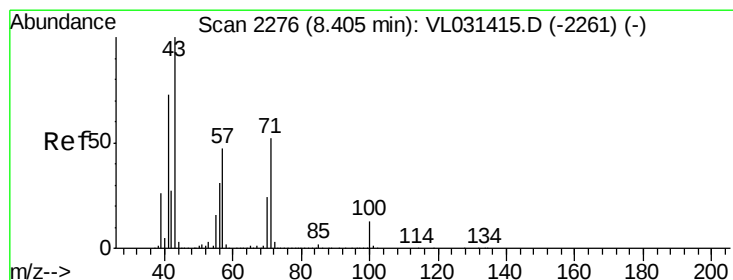
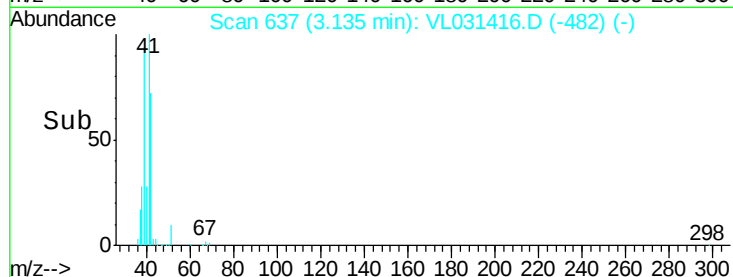
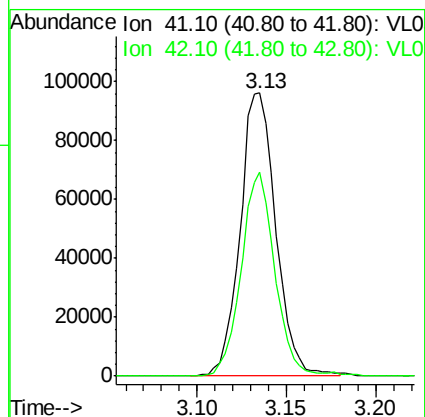
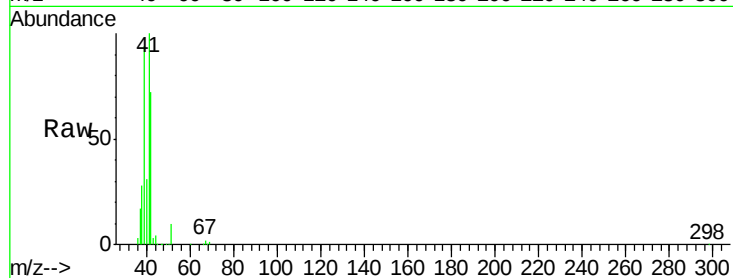
42 68.1 54.6 82.0

Manual Integrations

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#10

Heptane

Concen: 1.97 ppbv

RT: 8.40 min Scan# 2276

Delta R.T. -0.00 min

Lab File: VL031416.D

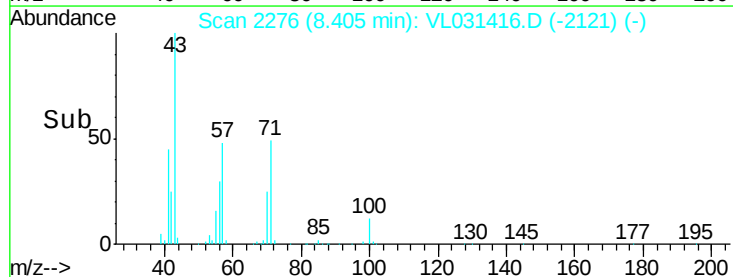
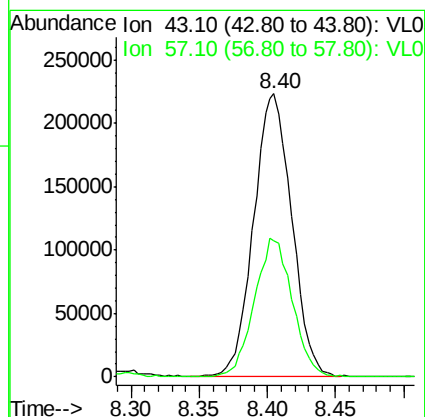
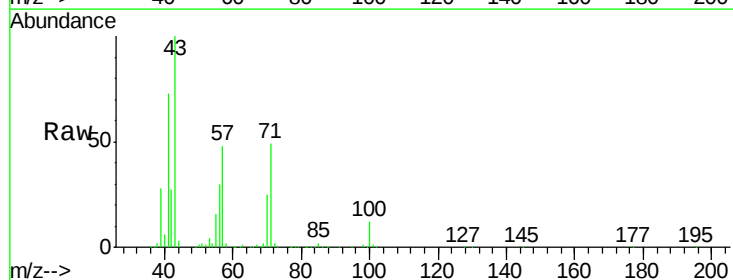
Acq: 22 Jan 2018 13:55

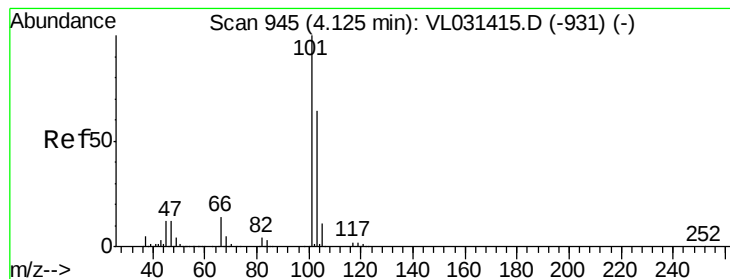
Tgt Ion: 43 Resp: 430618

Ion Ratio Lower Upper

43 100

57 49.1 39.7 59.5





#11

Trichlorofluoromethane

Concen: 2.01 ppbv

RT: 4.13 min Scan# 945

Delta R.T. 0.00 min

Lab File: VL031416.D

Acq: 22 Jan 2018 13:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:101 Resp: 551665

Ion Ratio Lower Upper

101 100

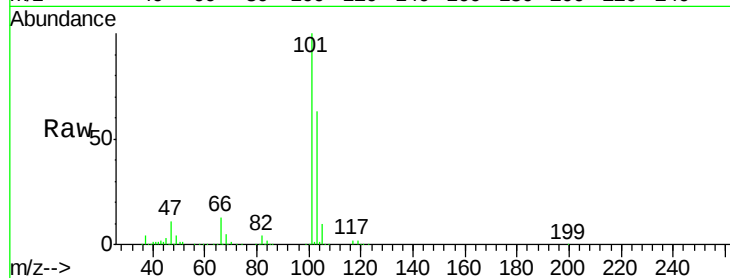
103 63.4 53.1 79.7

Manual Integrations

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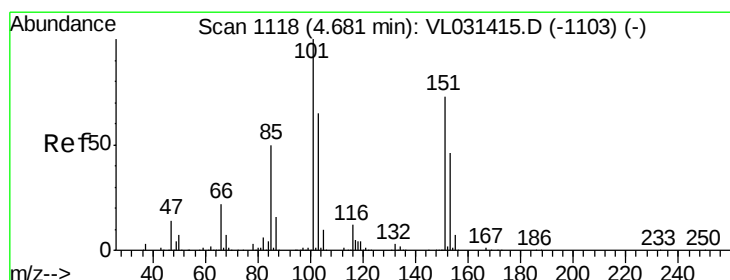
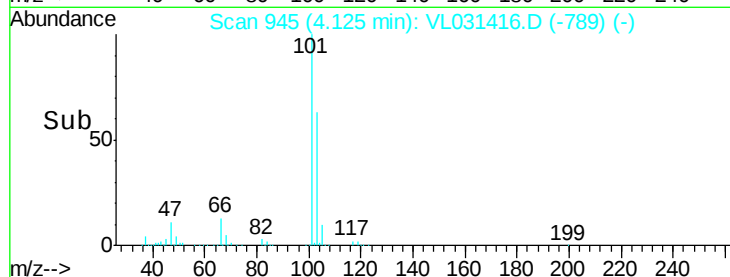
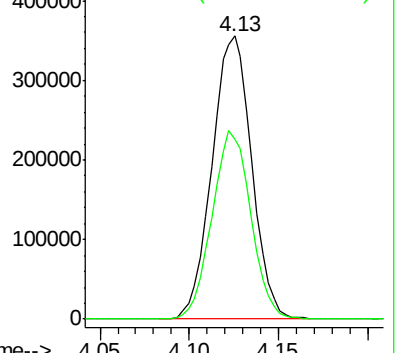
MMDadoda

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 2.01 ppbv

RT: 4.68 min Scan# 1117

Delta R.T. -0.01 min

Lab File: VL031416.D

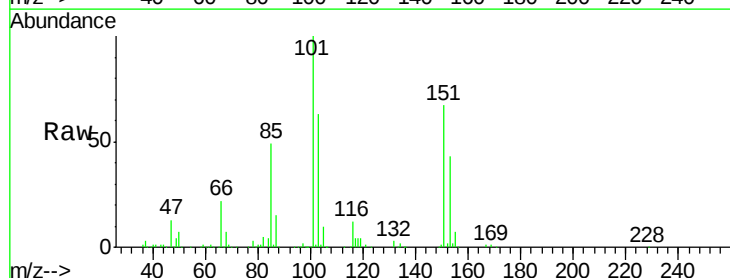
Acq: 22 Jan 2018 13:55

Tgt Ion:101 Resp: 349564

Ion Ratio Lower Upper

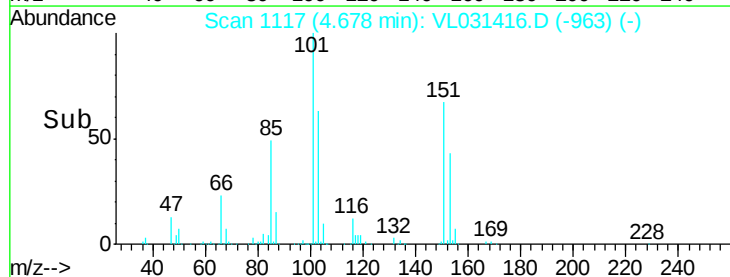
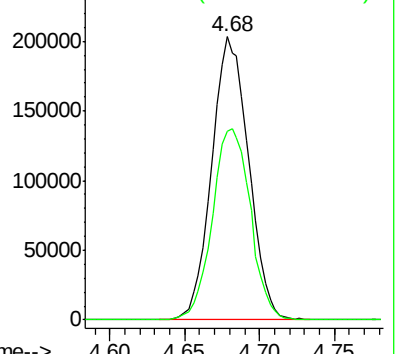
101 100

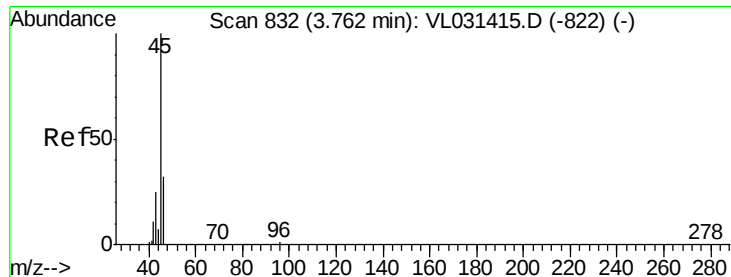
151 69.6 58.1 87.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





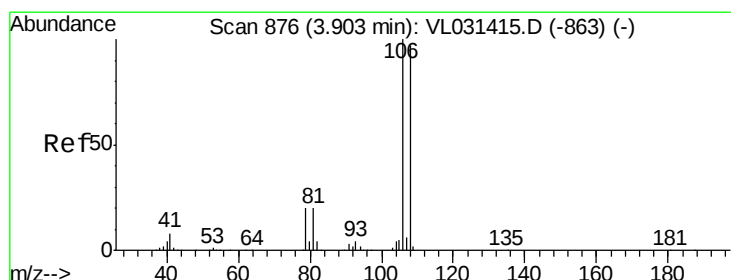
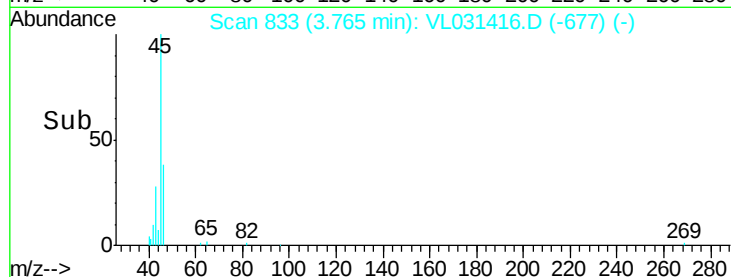
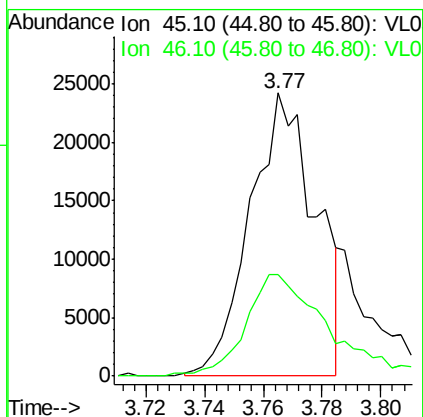
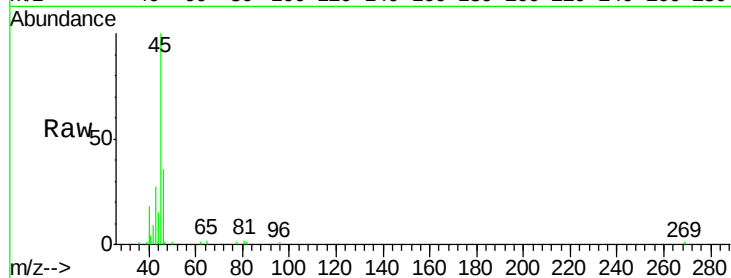
#13
Ethanol
Concen: 1.03 ppbv m
RT: 3.77 min Scan# 833
Delta R.T. 0.00 min
Lab File: VL031416.D
Acq: 22 Jan 2018 13:55

Instrument :
MSVOA_L
ClientSampled :
VSTDIC002

Tot Ion	45	Resp	37396
Ion Ratio	100	Lower	Upper
46	46.6	14.9	59.5

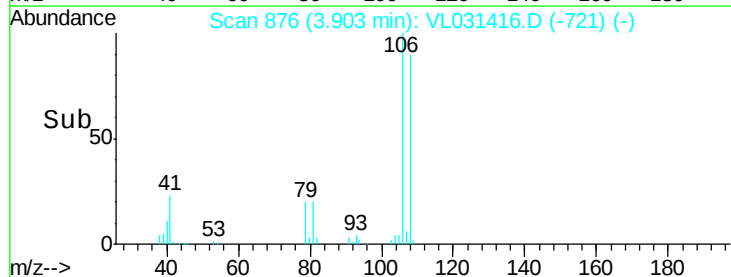
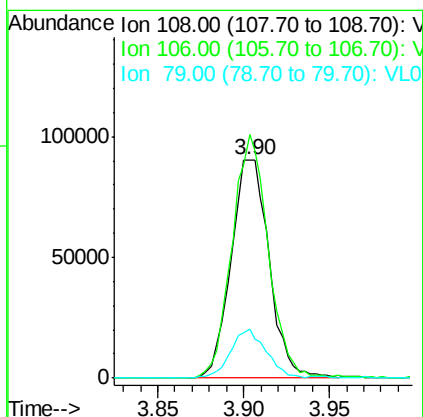
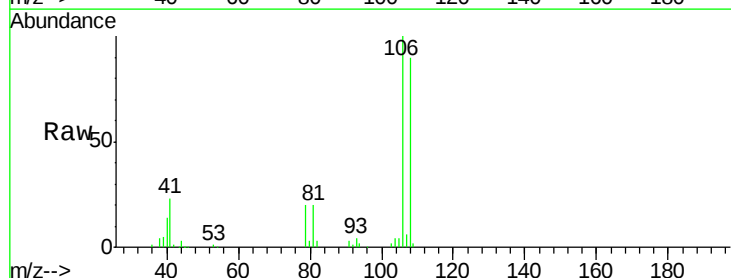
Manual Integrations
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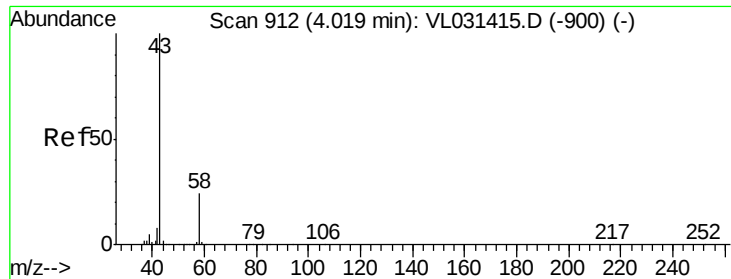
MMDadoda
1/24/2018 5:10:10 PM



#14
Bromoethene
Concen: 1.95 ppbv
RT: 3.90 min Scan# 876
Delta R.T. -0.00 min
Lab File: VL031416.D
Acq: 22 Jan 2018 13:55

Tgt Ion	108	Resp	139990
Ion Ratio	100	Lower	Upper
106	106.8	85.3	127.9
79	21.4	16.8	25.2





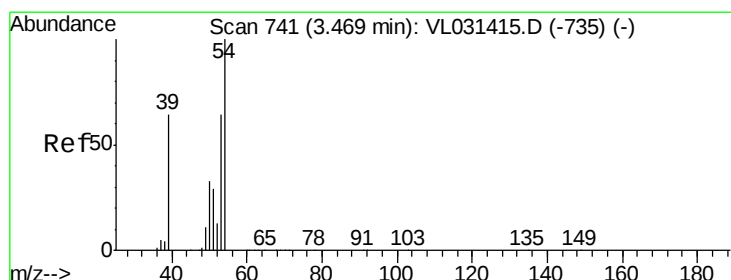
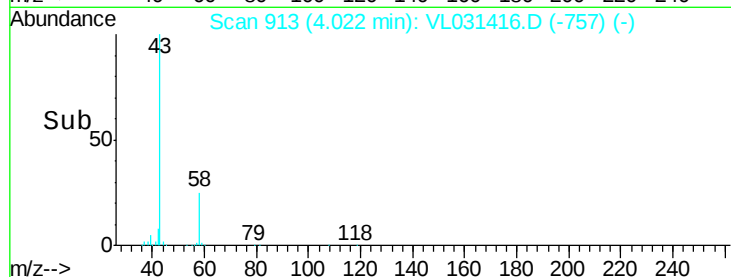
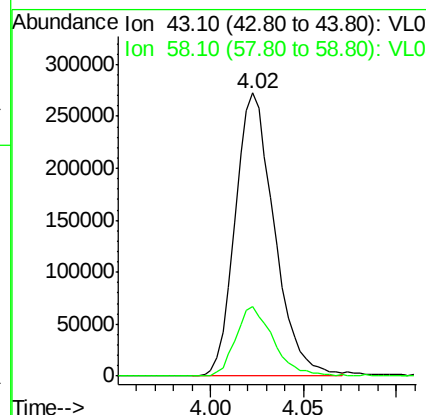
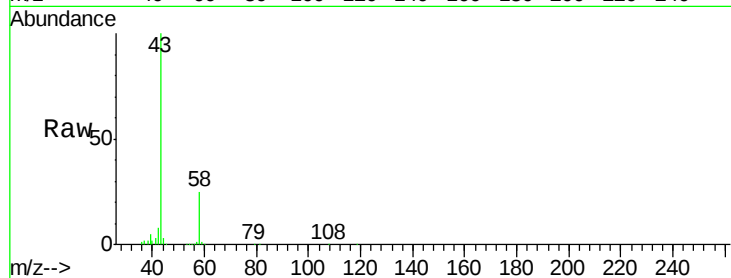
#15
Acetone
Concen: 1.80 ppbv
RT: 4.02 min Scan# 913
Delta R.T. 0.00 min
Lab File: VL031416.D
Acq: 22 Jan 2018 13:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 43 Resp: 399260
Ion Ratio Lower Upper
43 100
58 24.0 19.4 29.2

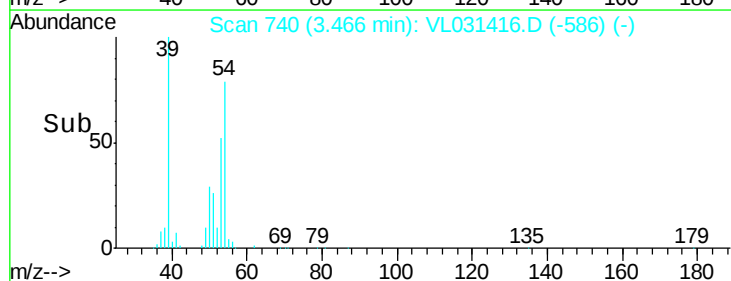
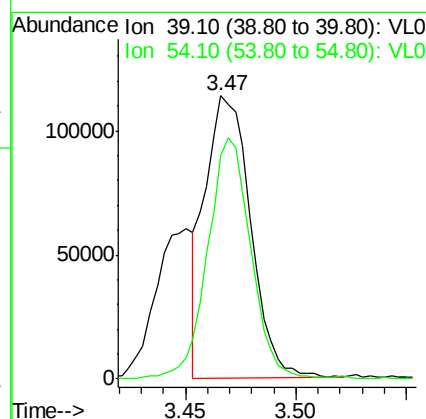
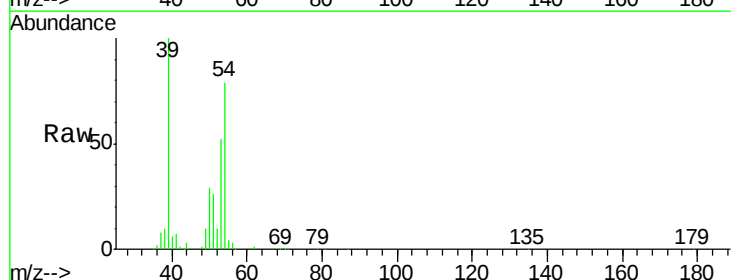
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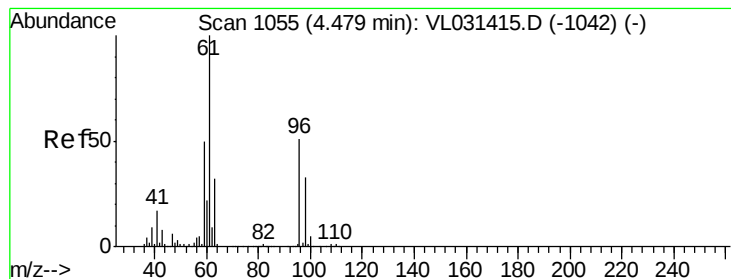
MMDadoda
1/24/2018 5:10:10 PM



#16
1,3-Butadiene
Concen: 1.94 ppbv
RT: 3.47 min Scan# 740
Delta R.T. -0.01 min
Lab File: VL031416.D
Acq: 22 Jan 2018 13:55

Tgt Ion: 39 Resp: 160674
Ion Ratio Lower Upper
39 100
54 82.4 67.0 100.6





#17

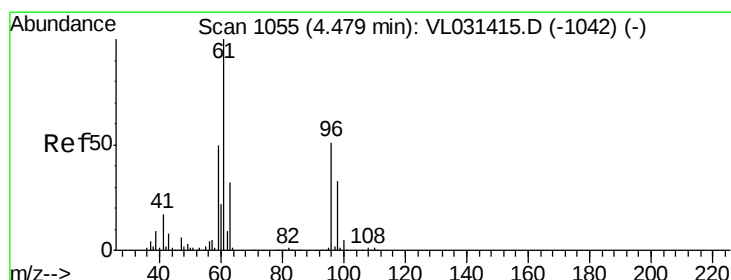
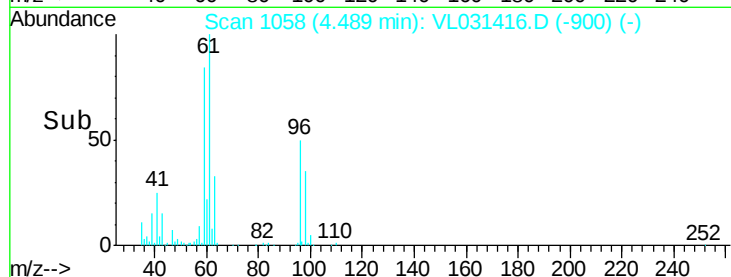
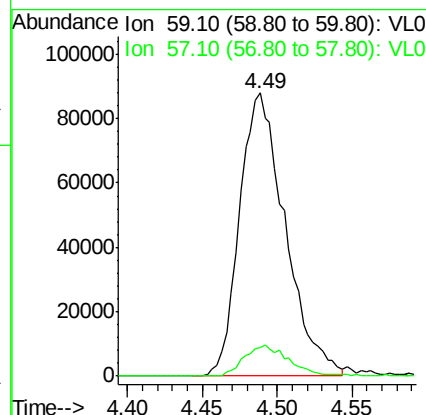
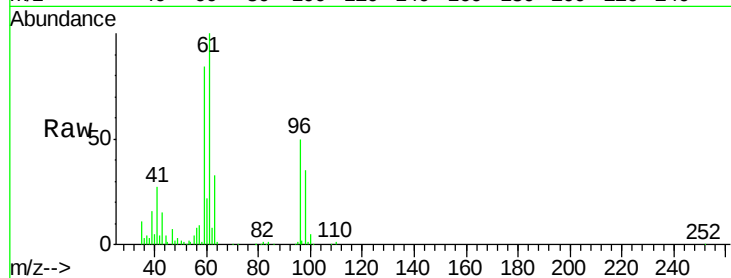
tert-Butyl alcohol
Concen: 1.84 ppbv
RT: 4.49 min Scan# 1058
Delta R.T. 0.01 min
Lab File: VL031416.D
Acq: 22 Jan 2018 13:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.0	8.6	13.0

Manual Integrations
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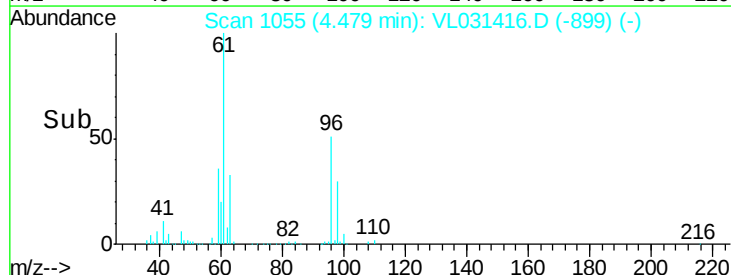
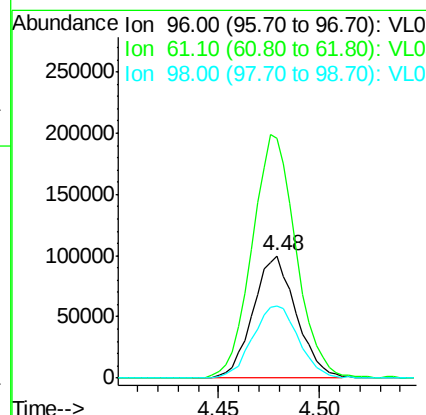
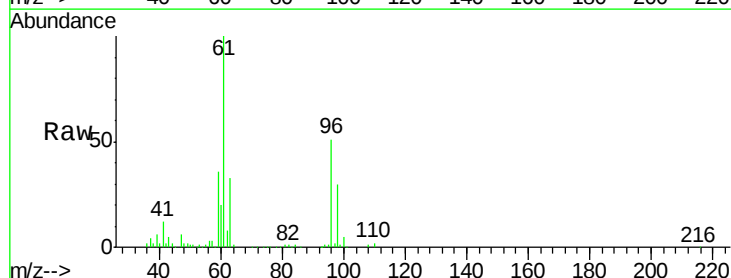
MMDadoda
1/24/2018 5:10:10 PM

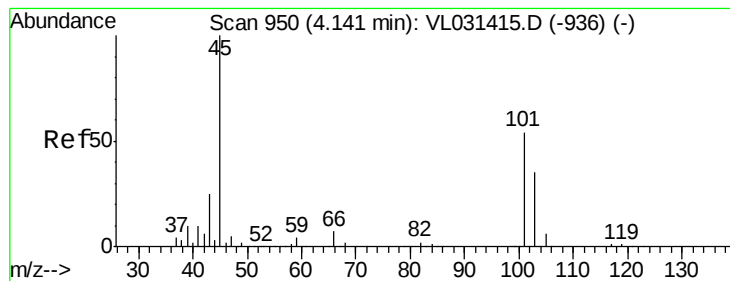


#18

1,1-Dichloroethene
Concen: 1.96 ppbv
RT: 4.48 min Scan# 1055
Delta R.T. 0.00 min
Lab File: VL031416.D
Acq: 22 Jan 2018 13:55

Tgt Ion	Ratio	Lower	Upper
96	100		
61	195.2	161.6	242.4
98	58.9	49.6	74.4





#19

Isopropyl Alcohol

Concen: 1.58 ppbv

RT: 4.14 min Scan# 951

Delta R.T. 0.00 min

Lab File: VL031416.D

Acq: 22 Jan 2018 13:55

Instrument :

MSVOA_L

ClientSampled :

VSTDIC002

Tot Ion: 45 Resp: 239027

Ion Ratio Lower Upper

45 100

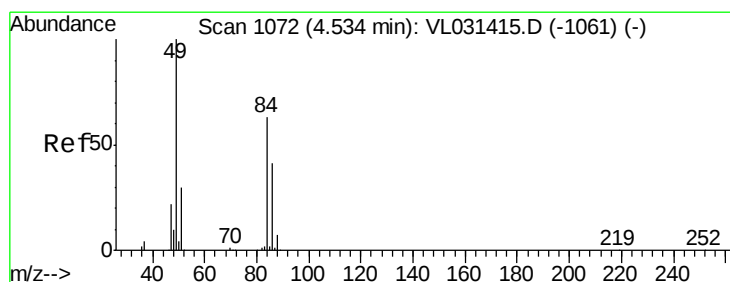
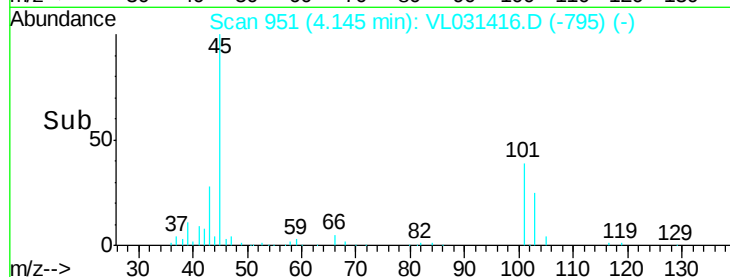
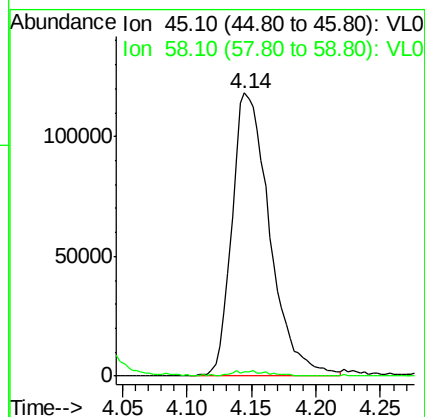
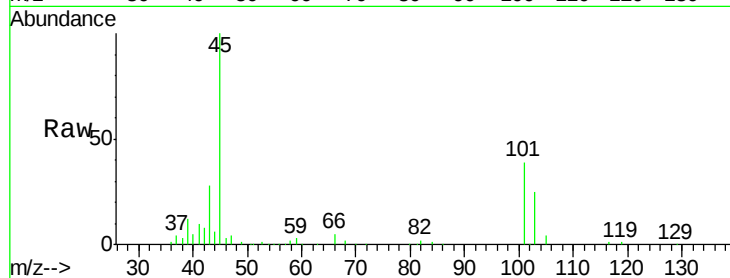
58 2.1 1.0 1.4#

Manual Integrations

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#20

Methylene Chloride

Concen: 1.88 ppbv

RT: 4.53 min Scan# 1072

Delta R.T. -0.00 min

Lab File: VL031416.D

Acq: 22 Jan 2018 13:55

Tgt Ion: 84 Resp: 150016

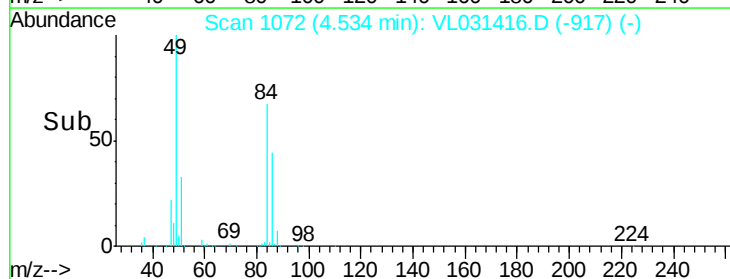
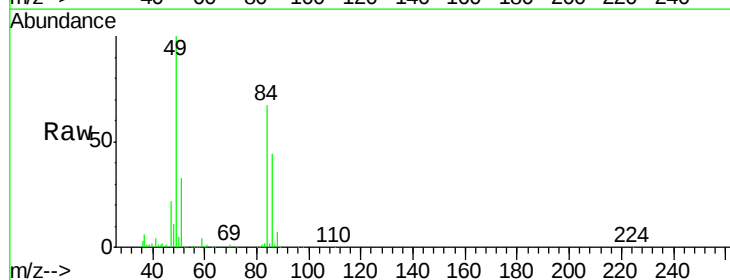
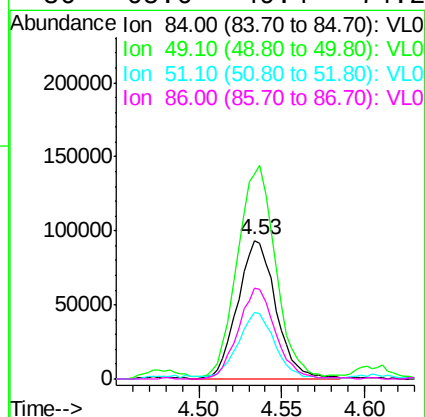
Ion Ratio Lower Upper

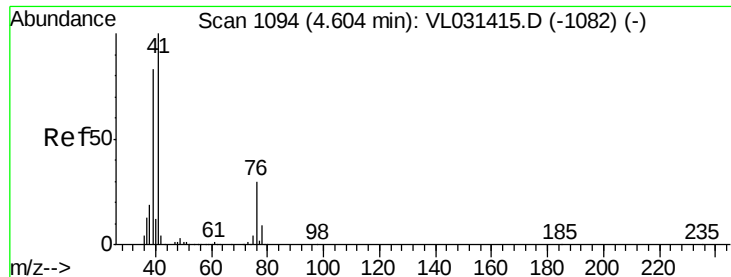
84 100

49 146.8 123.4 185.0

51 47.1 35.6 53.4

86 65.6 49.4 74.2





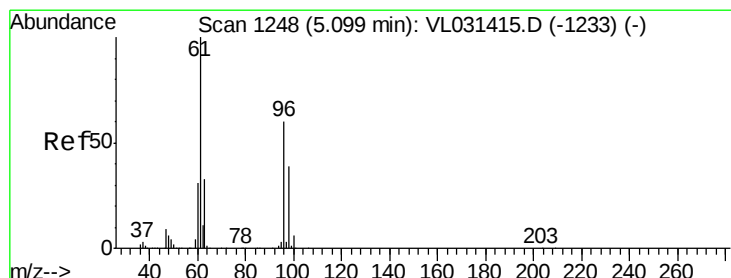
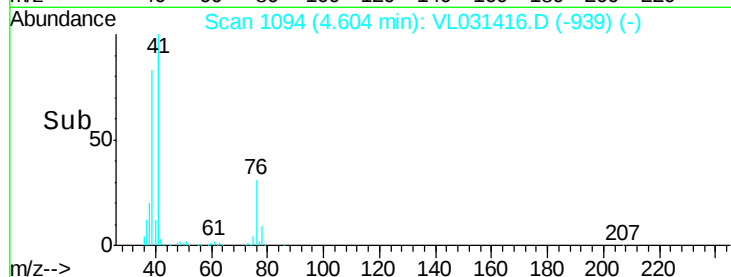
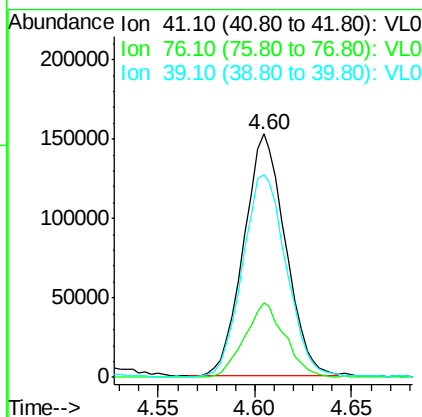
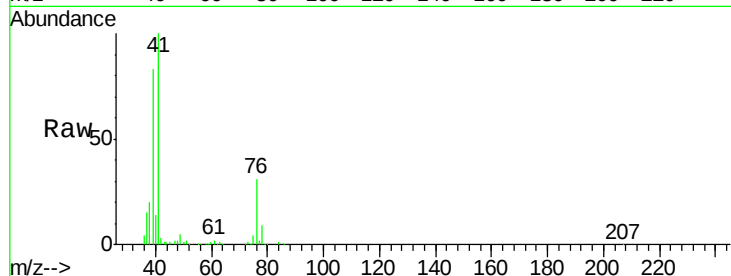
#21
Allvl Chloride
Concen: 1.91 ppbv
RT: 4.60 min Scan# 1094
Delta R.T. -0.00 min
Lab File: VL031416.D
Acq: 22 Jan 2018 13:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.2	24.2	36.2
39	89.9	69.8	104.8

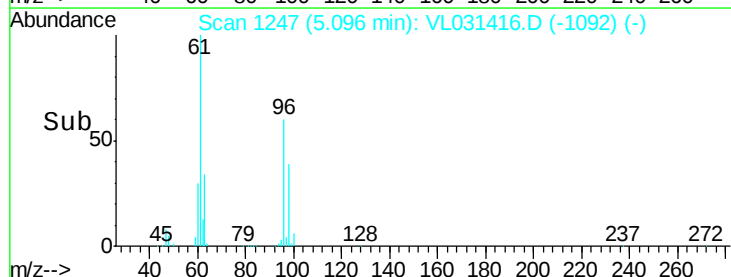
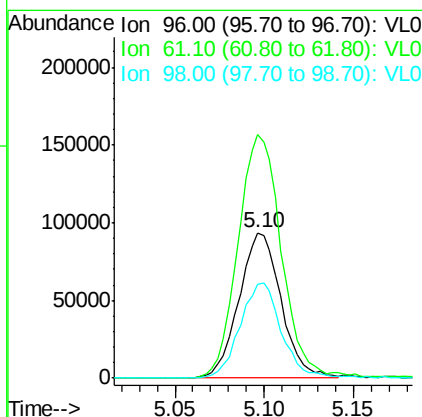
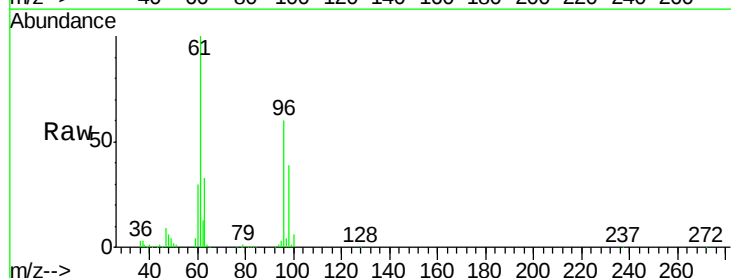
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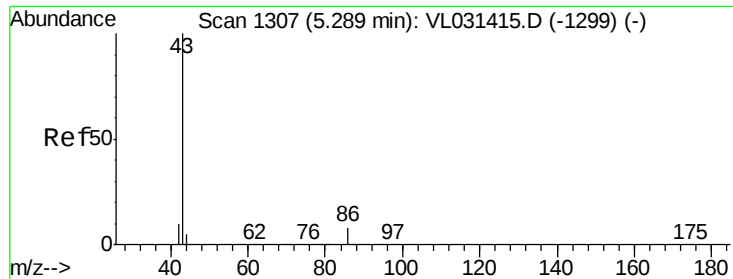
MMDadoda
1/24/2018 5:10:10 PM



#22
trans-1,2-Dichloroethene
Concen: 1.89 ppbv
RT: 5.10 min Scan# 1247
Delta R.T. -0.00 min
Lab File: VL031416.D
Acq: 22 Jan 2018 13:55

Tgt Ion	Ratio	Lower	Upper
96	100		
61	167.1	135.0	202.4
98	64.6	52.2	78.2





#23

Vinyl Acetate

Concen: 1.87 ppbv

RT: 5.29 min Scan# 1308

Delta R.T. 0.00 min

Lab File: VL031416.D

Acq: 22 Jan 2018 13:55

Instrument :

MSVOA_L

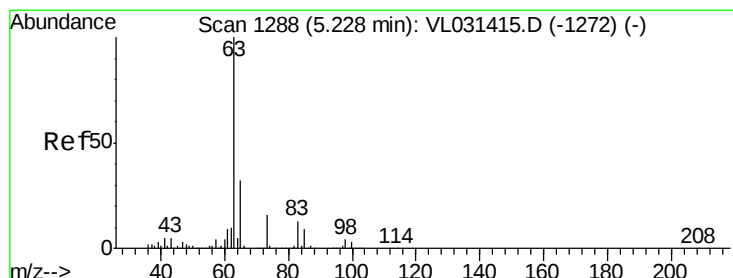
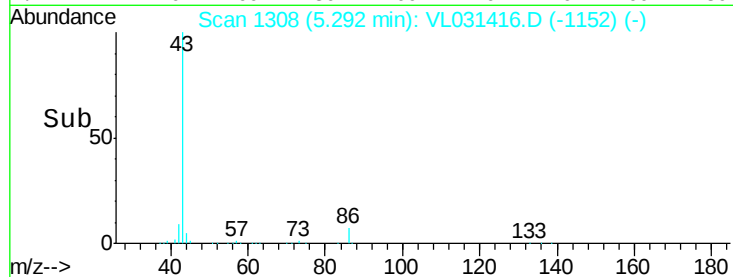
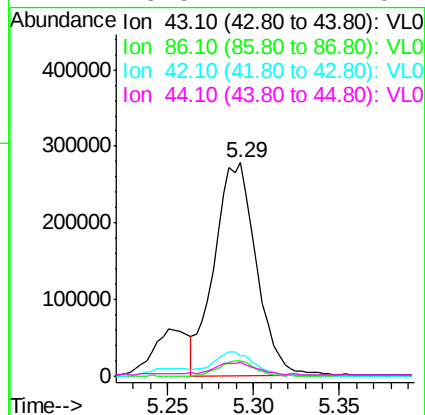
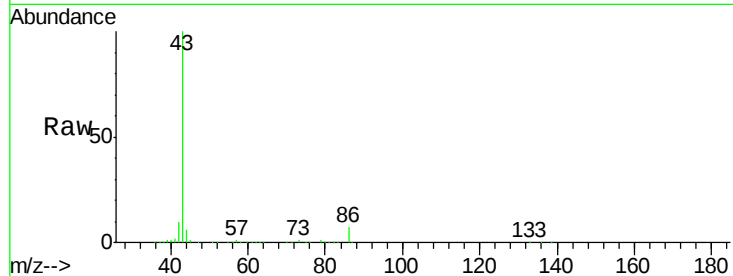
ClientSampleId :

VSTDIC002

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100		470353		
86	6.9		5.6	8.4	
42	9.4		8.6	12.8	
44	5.5		4.2	6.4	

Manual Integrations
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1/24/2018 5:10:10 PM



#24

1,1-Dichloroethane

Concen: 1.93 ppbv

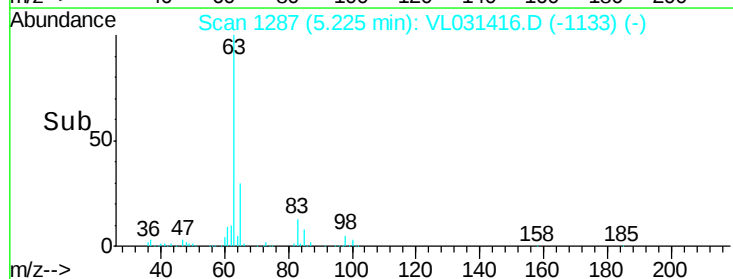
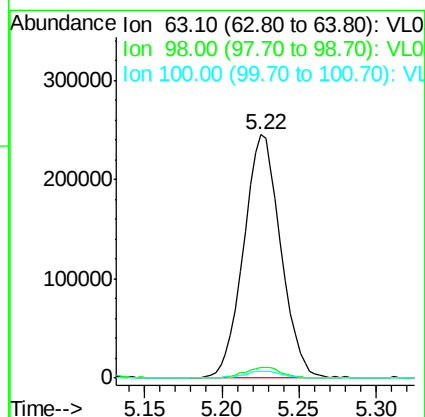
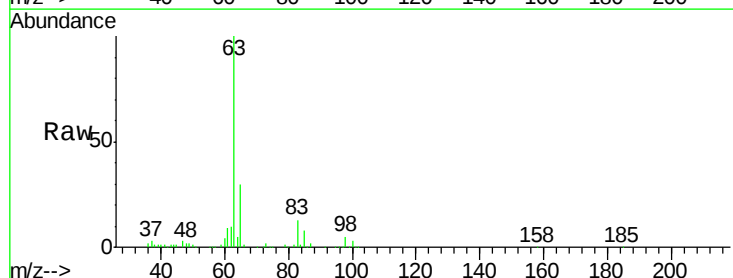
RT: 5.22 min Scan# 1287

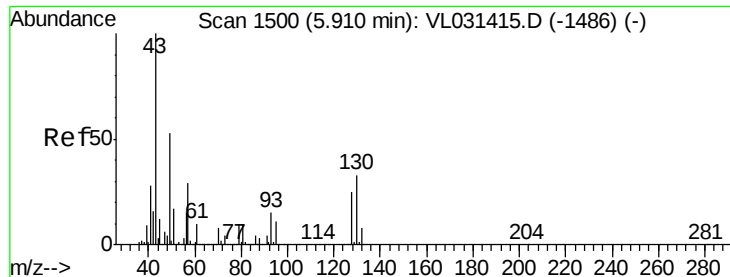
Delta R.T. -0.01 min

Lab File: VL031416.D

Acq: 22 Jan 2018 13:55

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
63	100		409769		
98	4.5		2.4	7.1	
100	2.7		1.3	3.9	





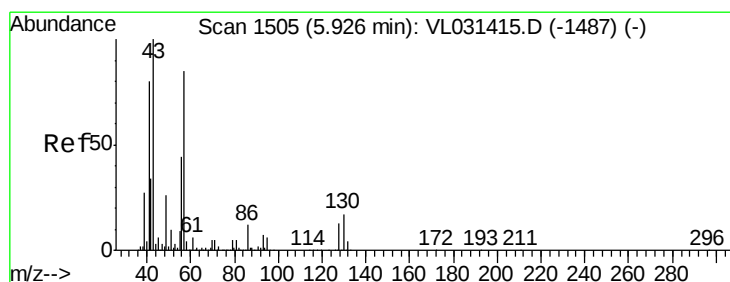
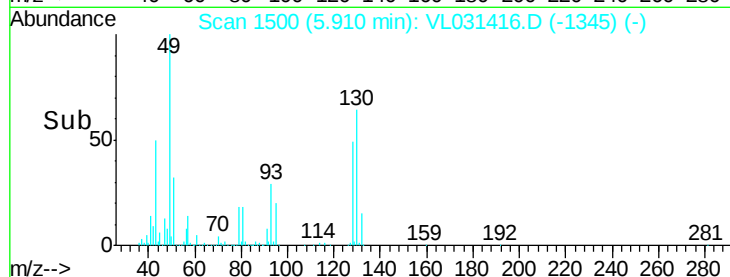
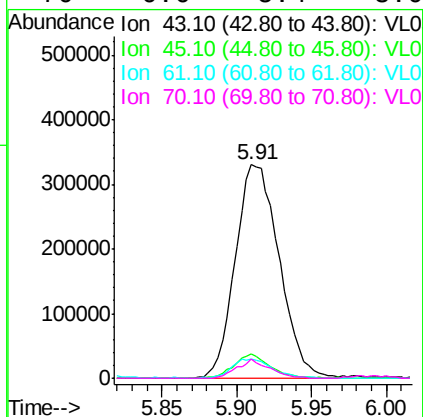
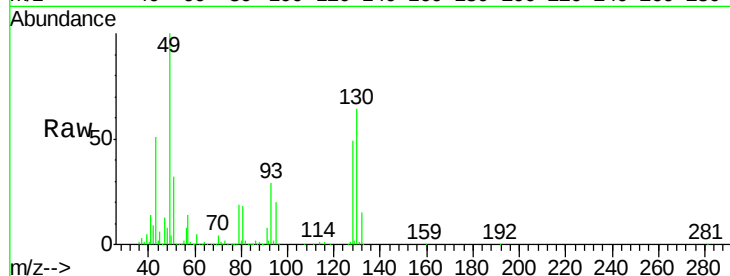
#25
Ethyl Acetate
Concen: 1.78 ppbv
RT: 5.91 min Scan# 1500
Delta R.T. -0.00 min
Lab File: VL031416.D
Acq: 22 Jan 2018 13:55

Instrument :
MSVOA_L
ClientSampled :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.6	7.8	11.6
61	8.6	7.0	10.6
70	6.6	5.4	8.0

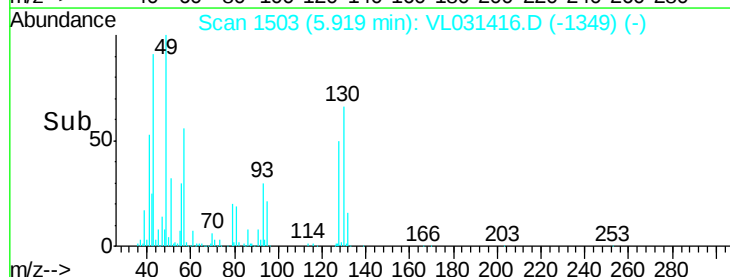
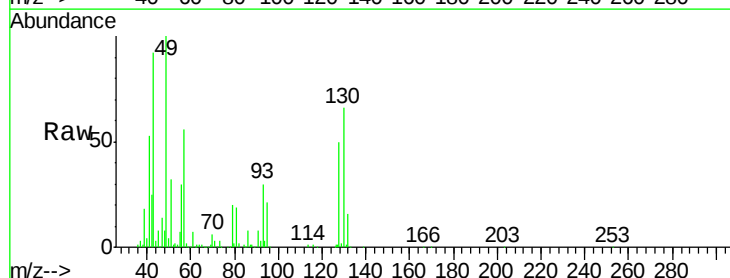
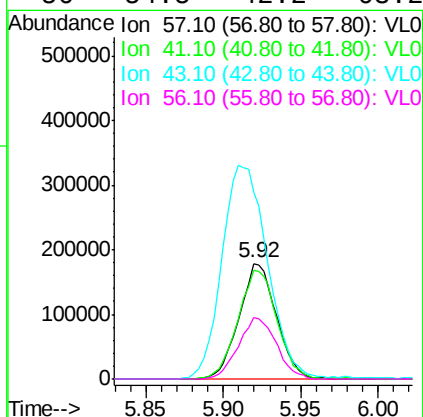
Manual Integrations
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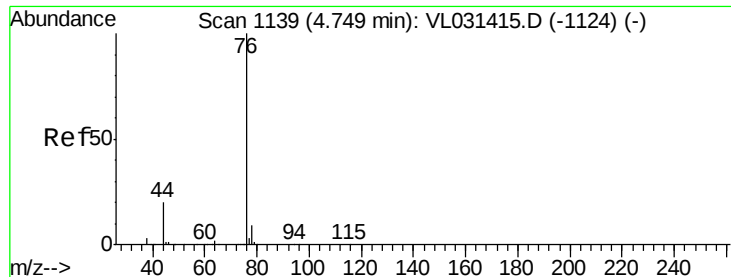
MMDadoda
1/24/2018 5:10:10 PM



#26
Hexane
Concen: 1.90 ppbv
RT: 5.92 min Scan# 1503
Delta R.T. -0.01 min
Lab File: VL031416.D
Acq: 22 Jan 2018 13:55

Tgt Ion	Ratio	Lower	Upper
57	100		
41	99.7	77.1	115.7
43	225.9	180.7	271.1
56	54.5	42.2	63.2





#27

Carbon Disulfide

Concen: 1.91 ppbv

RT: 4.75 min Scan# 1140

Delta R.T. 0.00 min

Lab File: VL031416.D

Acq: 22 Jan 2018 13:55

Instrument :

MSVOA_L

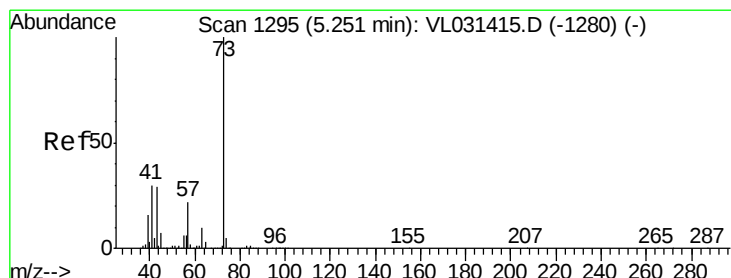
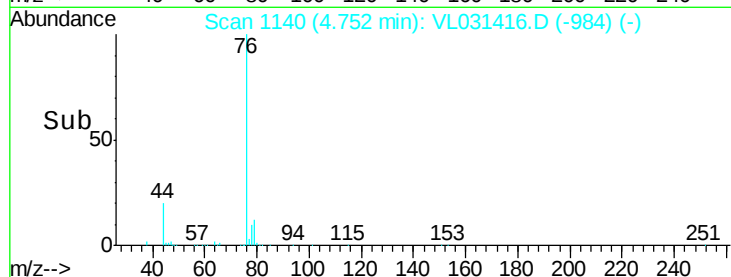
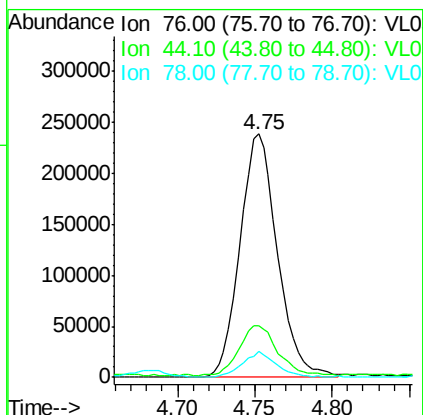
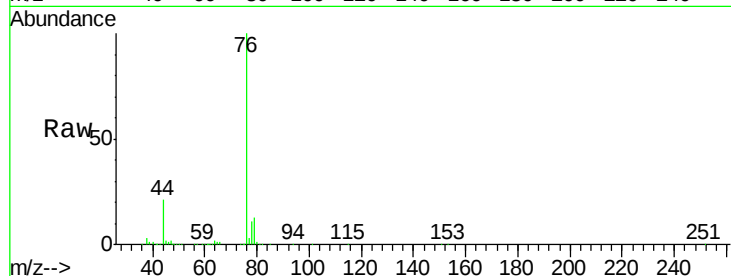
ClientSampleId :

VSTDIC002

Tot Ion:	76	Resp:	402526
Ion	Ratio	Lower	Upper
76	100		
44	22.1	16.7	25.1
78	10.2	7.5	11.3

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 1.93 ppbv

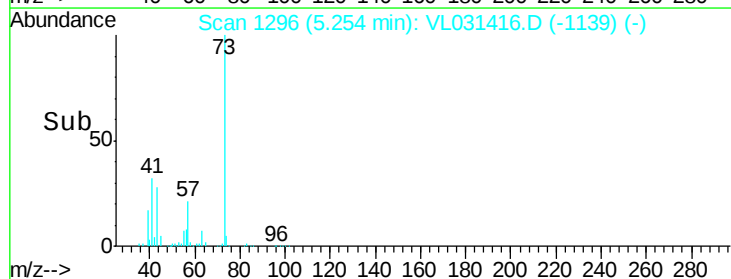
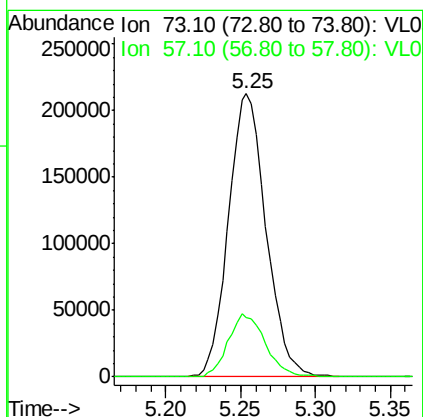
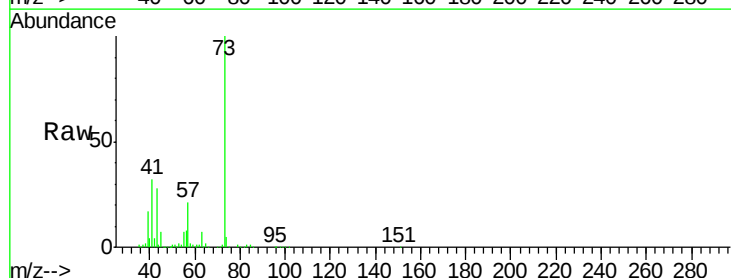
RT: 5.25 min Scan# 1296

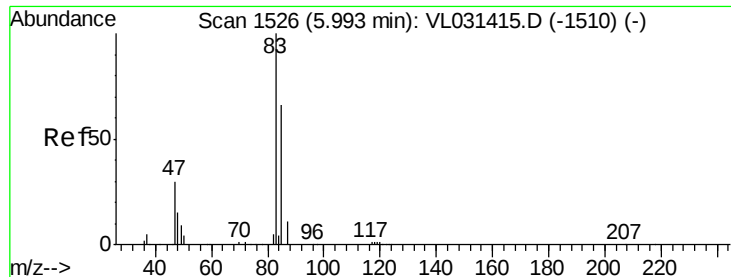
Delta R.T. 0.00 min

Lab File: VL031416.D

Acq: 22 Jan 2018 13:55

Tgt Ion:	73	Resp:	371812
Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.5	26.3





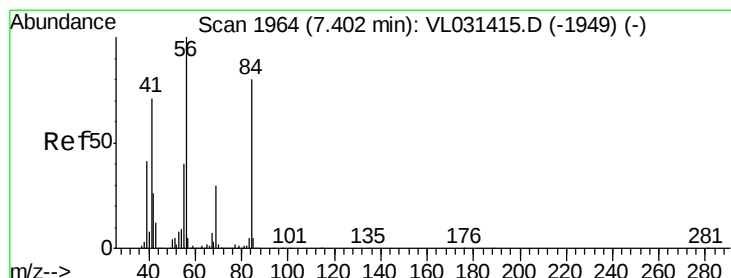
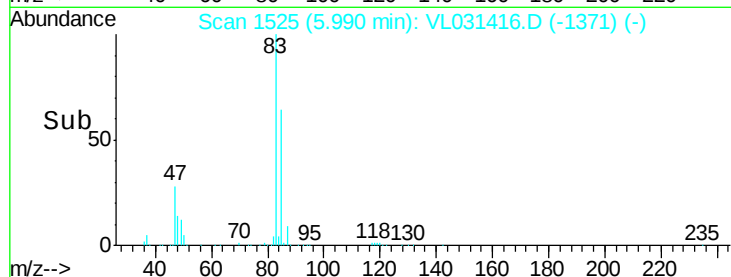
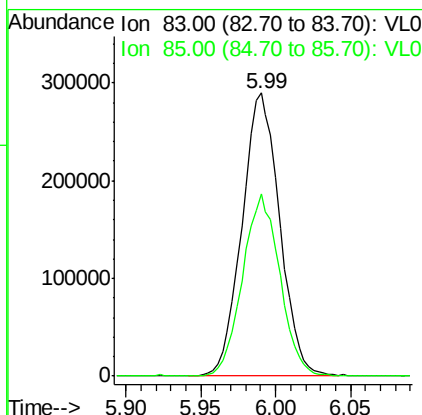
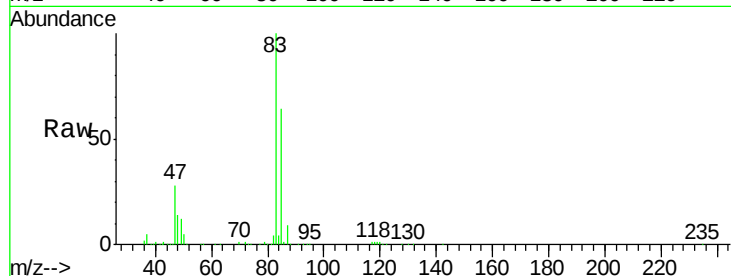
#29
Chloroform
Concen: 1.87 ppbv
RT: 5.99 min Scan# 1525
Delta R.T. -0.01 min
Lab File: VL031416.D
Acq: 22 Jan 2018 13:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	83	Resp	508387
Ion Ratio	Lower	Upper	
83	100		
85	64.1	51.3	76.9

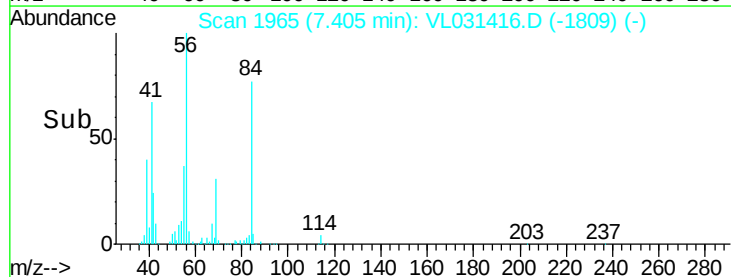
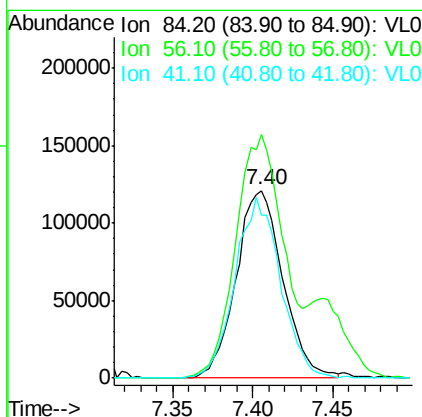
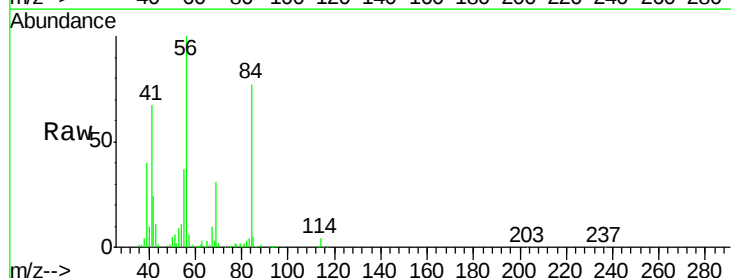
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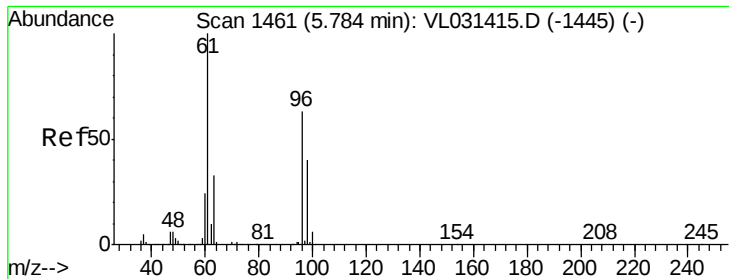
MMDadoda
1/24/2018 5:10:10 PM



#30
Cyclohexane
Concen: 1.88 ppbv
RT: 7.40 min Scan# 1965
Delta R.T. 0.00 min
Lab File: VL031416.D
Acq: 22 Jan 2018 13:55

Tgt Ion	84	Resp	238322
Ion Ratio	Lower	Upper	
84	100		
56	169.7	109.0	163.4#
41	95.3	73.3	109.9





#31

cis-1,2-Dichloroethene

Concen: 1.85 ppbv

RT: 5.78 min Scan# 1460

Delta R.T. -0.01 min

Lab File: VL031416.D

Acq: 22 Jan 2018 13:55

Instrument :

MSVOA_L

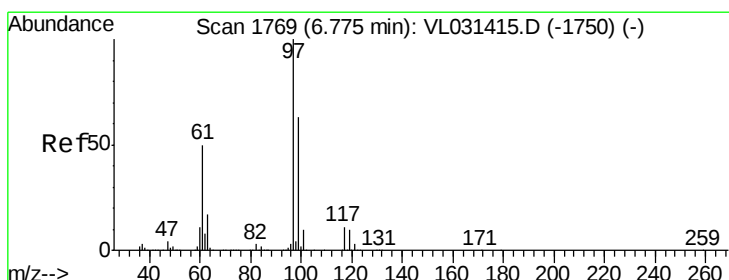
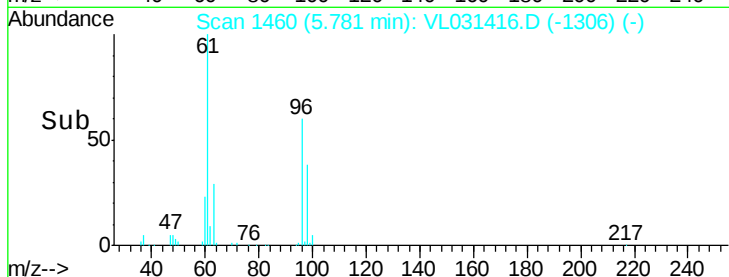
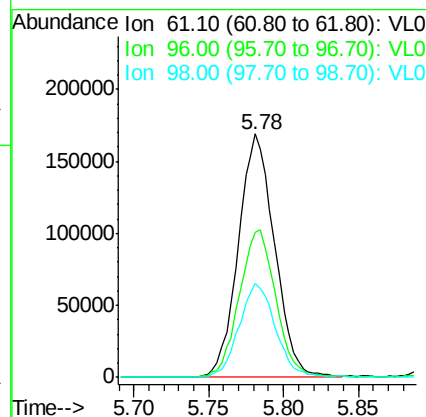
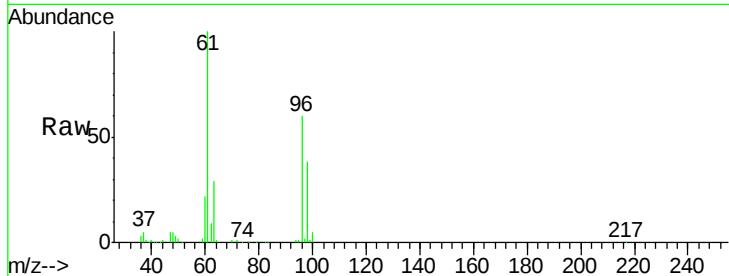
ClientSampleId :

VSTDIC002

Tot Ion:	61	Resp:	285197
Ion Ratio		Lower	Upper
61	100		
96	59.3	51.3	76.9
98	38.4	33.6	50.4

Manual Integrations
APPROVED

MMDadoda
1/24/2018 5:10:10 PM



#32

1,1,1-Trichloroethane

Concen: 1.84 ppbv

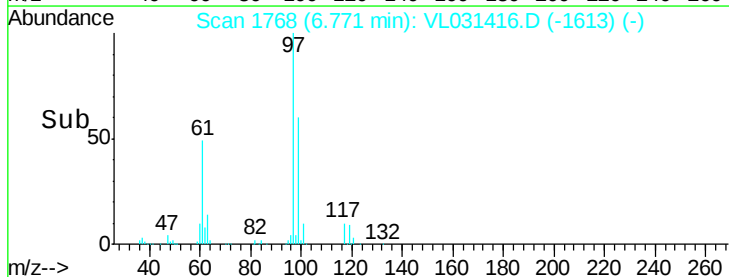
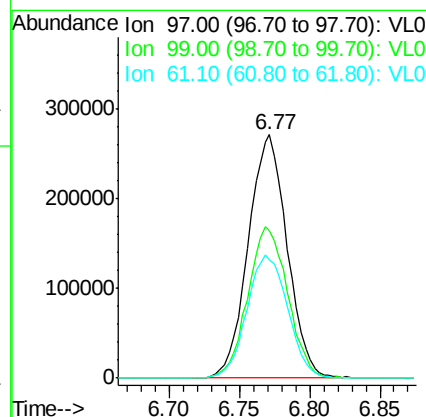
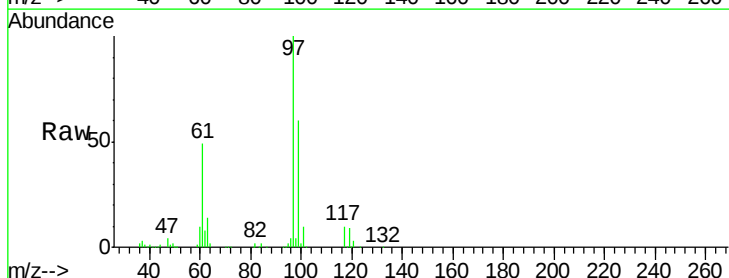
RT: 6.77 min Scan# 1768

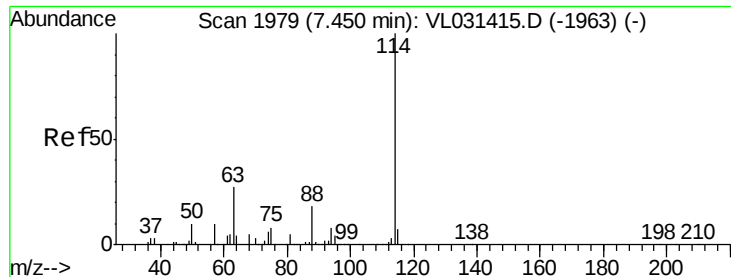
Delta R.T. -0.00 min

Lab File: VL031416.D

Acq: 22 Jan 2018 13:55

Tgt Ion:	97	Resp:	522986
Ion Ratio		Lower	Upper
97	100		
99	63.9	51.9	77.9
61	53.1	40.6	61.0





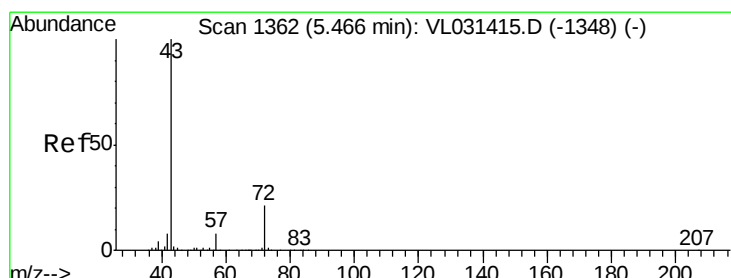
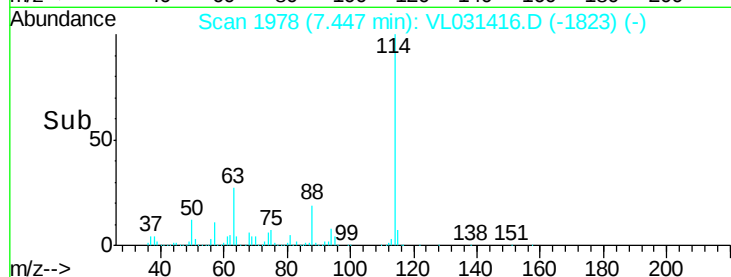
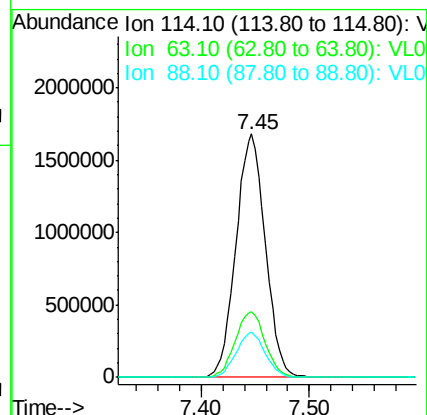
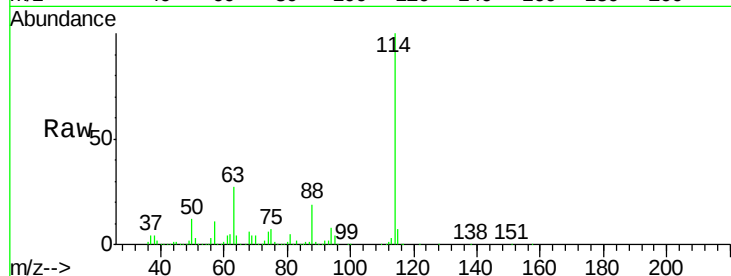
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.45 min Scan# 1978
 Delta R.T. -0.00 min
 Lab File: VL031416.D
 Acq: 22 Jan 2018 13:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.5	22.5	33.7
88	18.3	14.6	22.0

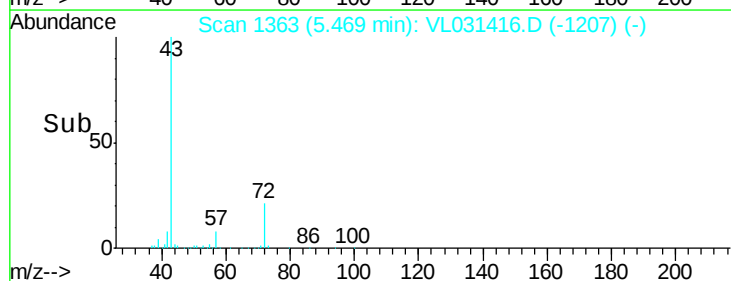
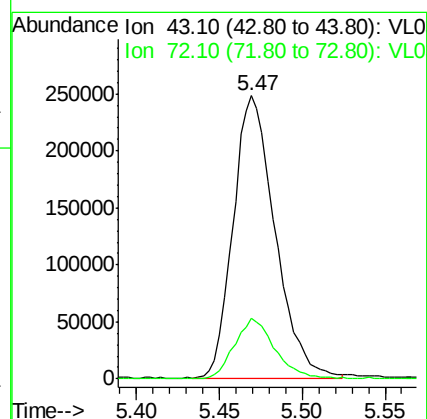
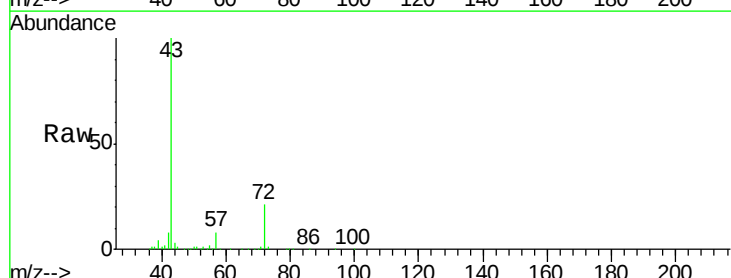
Manual Integrations
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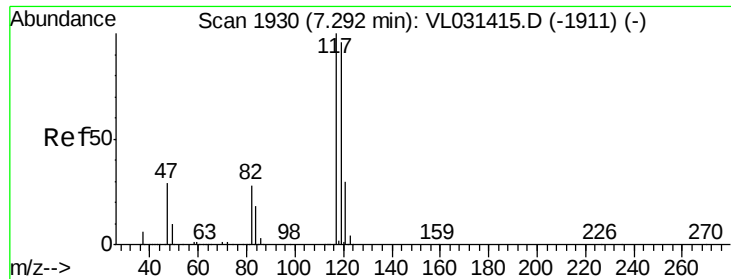
MMDadoda
 1/24/2018 5:10:10 PM



#34
 2-Butanone
 Concen: 1.64 ppbv
 RT: 5.47 min Scan# 1363
 Delta R.T. 0.00 min
 Lab File: VL031416.D
 Acq: 22 Jan 2018 13:55

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.8	16.8	25.2





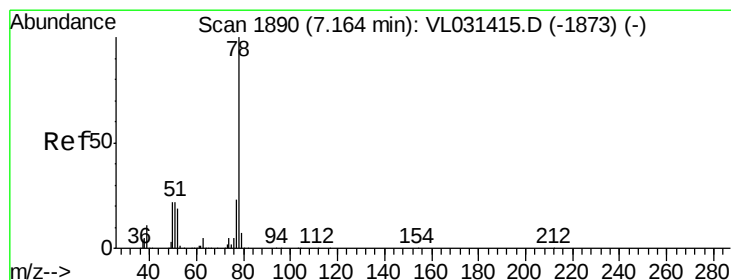
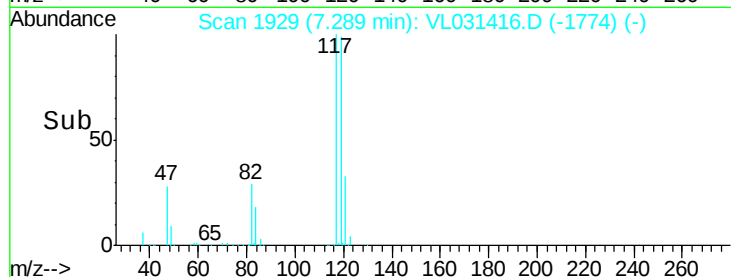
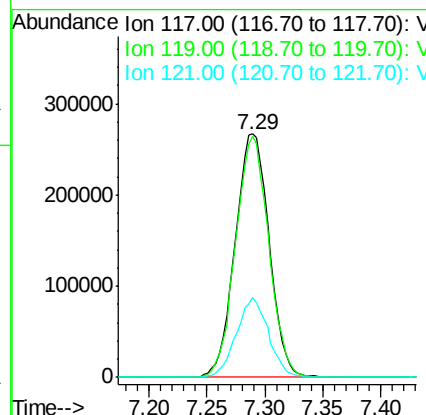
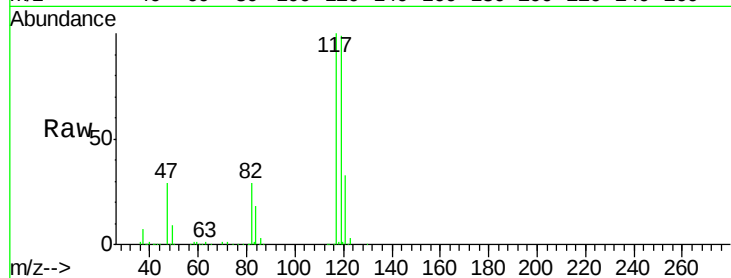
#35
Carbon Tetrachloride
Concen: 1.79 ppbv
RT: 7.29 min Scan# 1929
Delta R.T. -0.00 min
Lab File: VL031416.D
Acq: 22 Jan 2018 13:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
117	100		
119	98.8	74.2	111.4
121	33.0	24.2	36.4

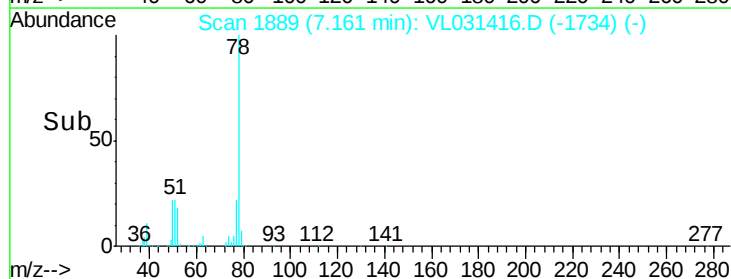
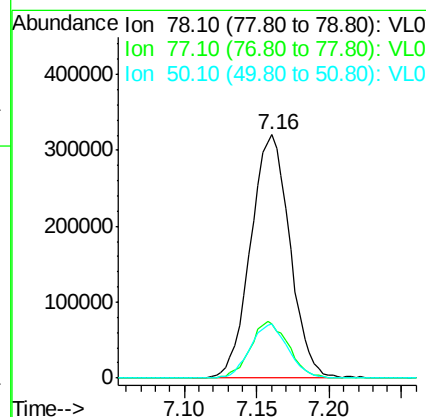
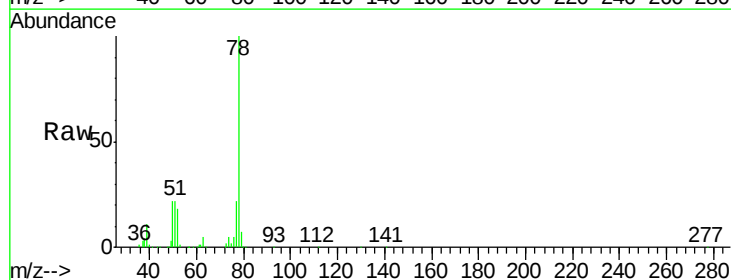
Manual Integrations
APPROVED

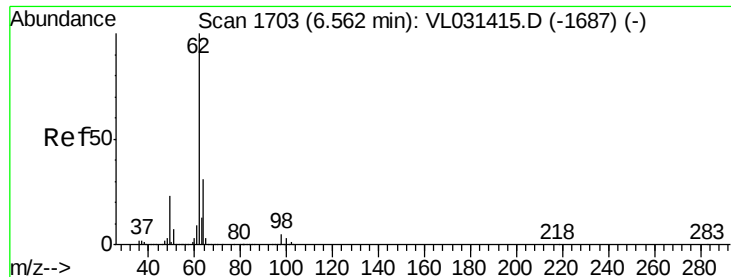
MMDadoda
1/24/2018 5:10:10 PM



#36
Benzene
Concen: 1.83 ppbv
RT: 7.16 min Scan# 1889
Delta R.T. -0.00 min
Lab File: VL031416.D
Acq: 22 Jan 2018 13:55

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.2	18.7	28.1
50	22.5	18.4	27.6





#37

1,2-Dichloroethane

Concen: 1.88 ppbv

RT: 6.56 min Scan# 1703

Delta R.T. -0.00 min

Lab File: VL031416.D

Acq: 22 Jan 2018 13:55

Instrument :

MSVOA_L

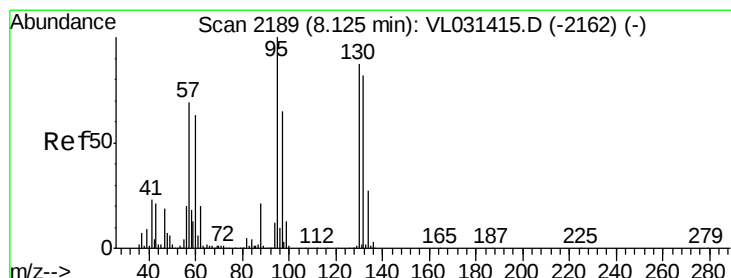
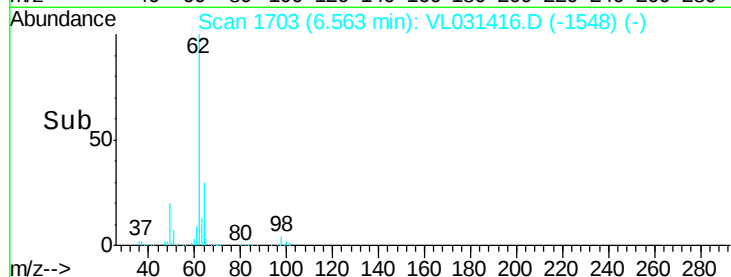
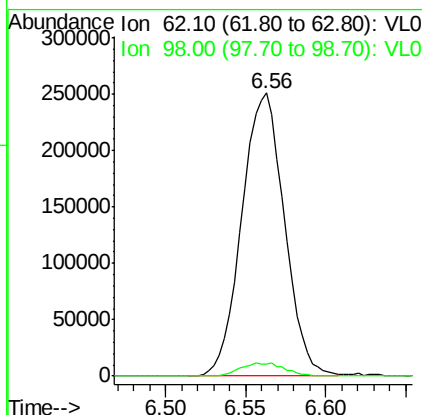
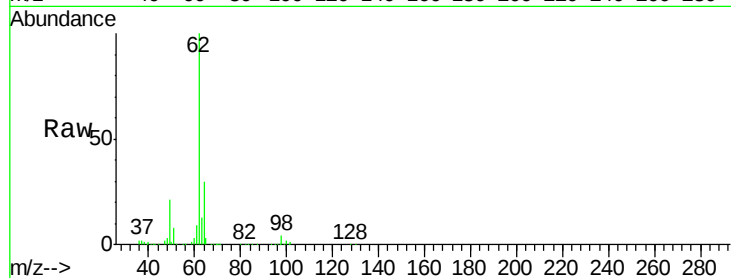
ClientSampleId :

VSTDIC002

Tot Ion:	62	Resp:	456900
Ion Ratio	Lower	Upper	
62	100		
98	4.9	4.1	6.1

Manual Integrations
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MMDadoda
1/24/2018 5:10:10 PM



#38

Trichloroethene

Concen: 1.80 ppbv

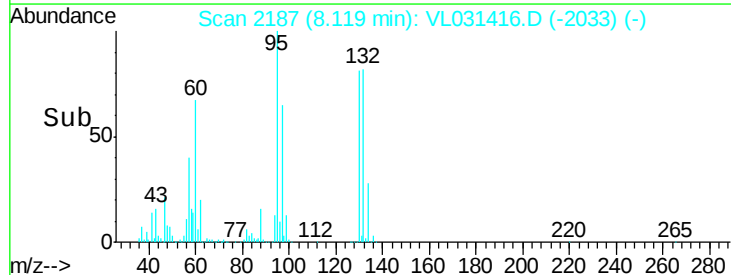
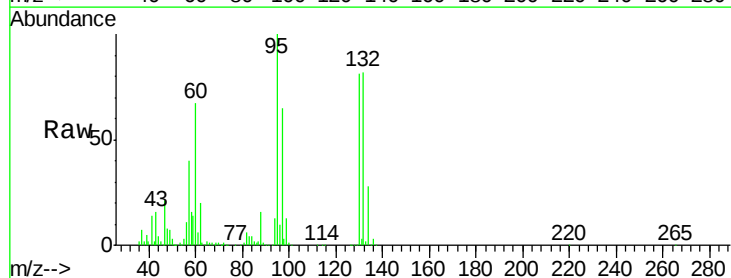
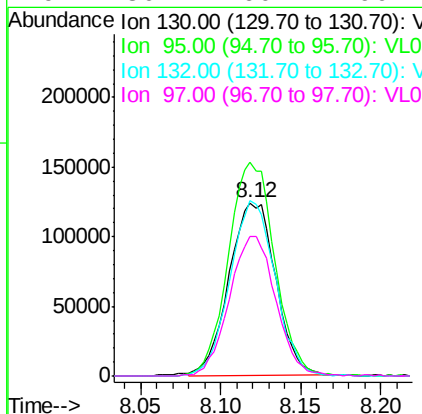
RT: 8.12 min Scan# 2187

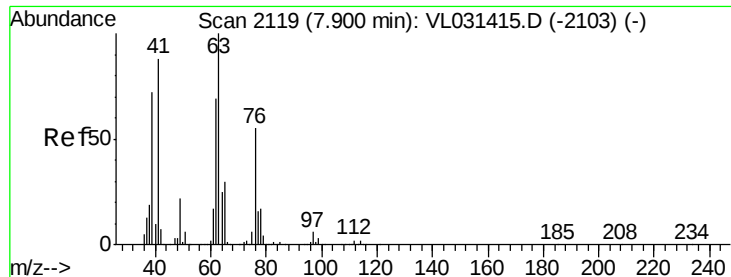
Delta R.T. -0.01 min

Lab File: VL031416.D

Acq: 22 Jan 2018 13:55

Tgt Ion:	130	Resp:	247024
Ion Ratio	Lower	Upper	
130	100		
95	122.9	92.9	139.3
132	101.1	74.9	112.3
97	80.4	60.2	90.4





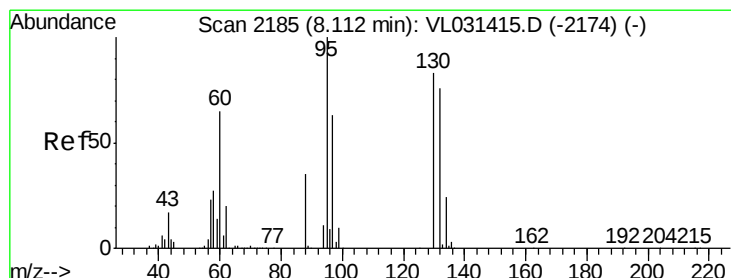
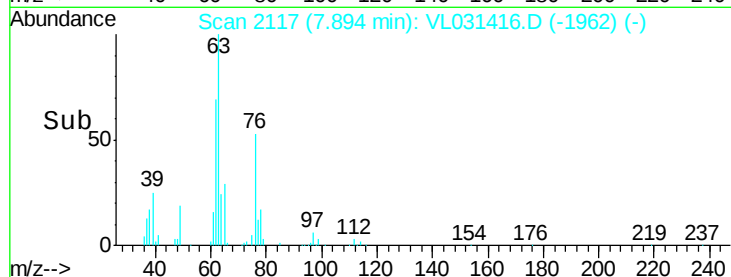
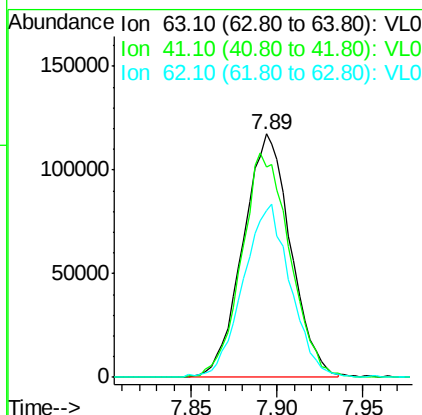
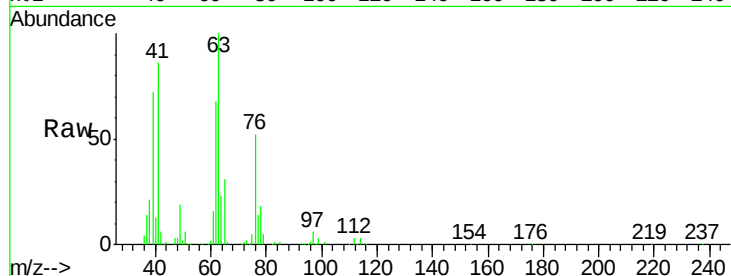
#39
 1,2-Dichloropropane
 Concen: 1.85 ppbv
 RT: 7.89 min Scan# 2117
 Delta R.T. -0.00 min
 Lab File: VL031416.D
 Acq: 22 Jan 2018 13:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
63	100		
41	86.2	67.6	101.4
62	67.6	51.8	77.6

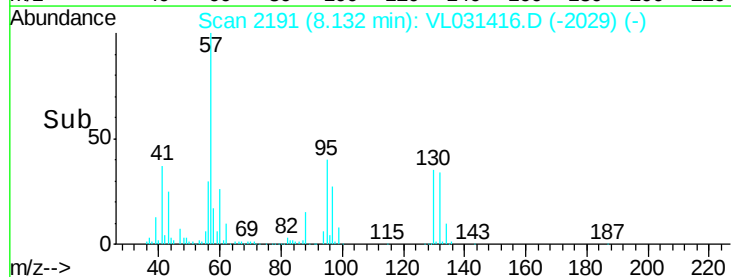
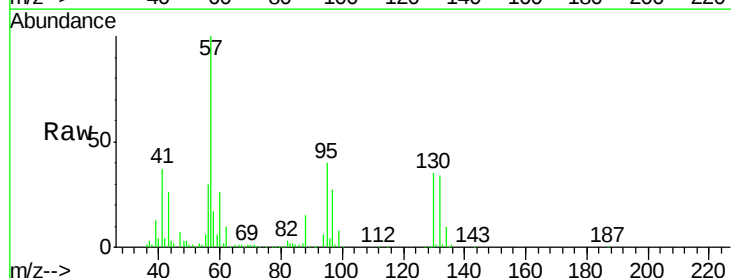
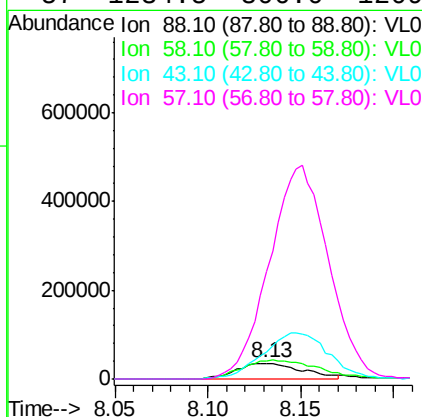
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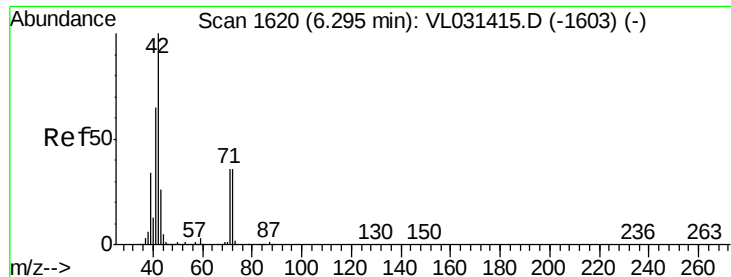
MMDadoda
 1/24/2018 5:10:10 PM



#40
 1,4-Dioxane
 Concen: 1.43 ppbv
 RT: 8.13 min Scan# 2191
 Delta R.T. 0.02 min
 Lab File: VL031416.D
 Acq: 22 Jan 2018 13:55

Tgt Ion	Ratio	Lower	Upper
88	100		
58	144.0	98.2	147.2
43	296.9	197.3	295.9#
57	1234.5	806.0	1209.0#





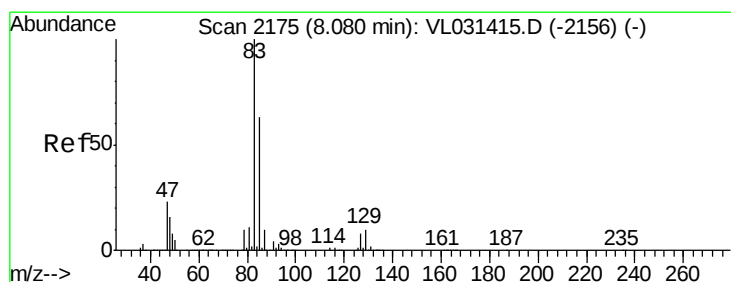
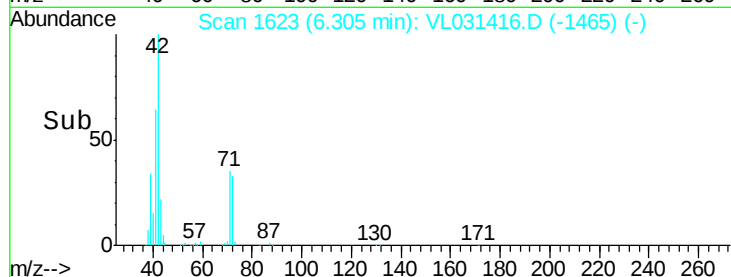
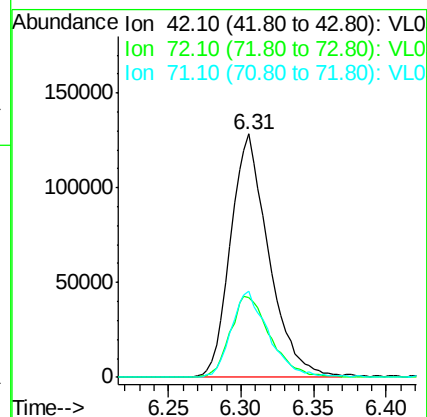
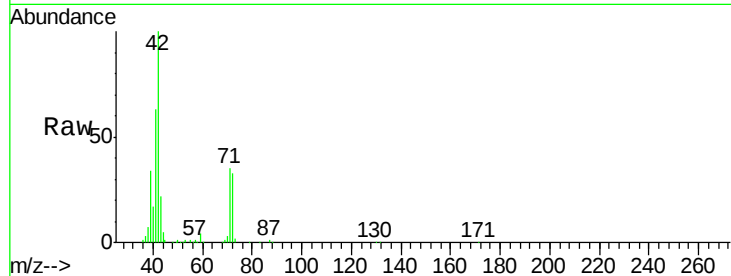
#41
Tetrahydrofuran
Concen: 1.75 ppbv
RT: 6.31 min Scan# 1623
Delta R.T. 0.01 min
Lab File: VL031416.D
Acq: 22 Jan 2018 13:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
42	100		
72	35.2	30.4	45.6
71	35.0	29.2	43.8

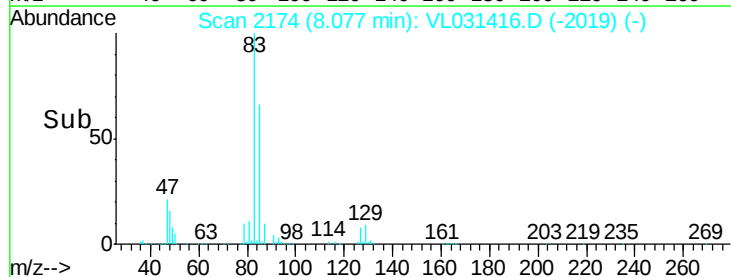
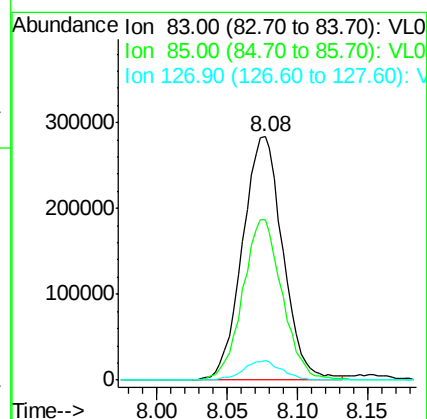
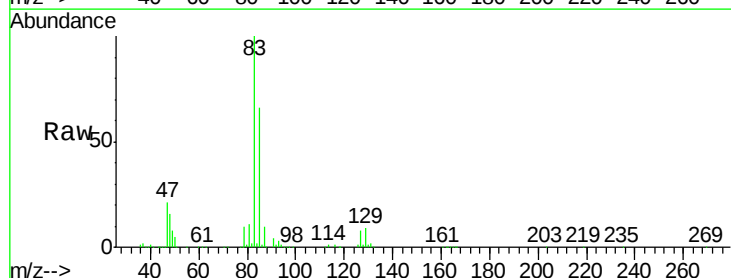
Manual Integrations
APPROVED

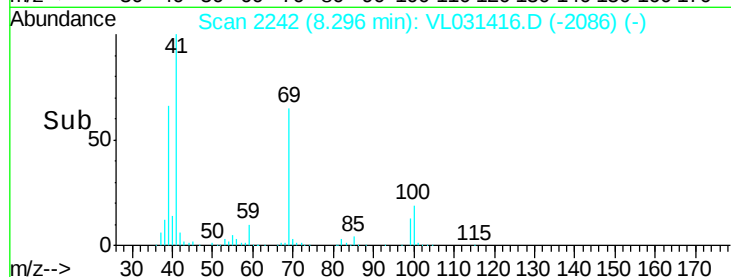
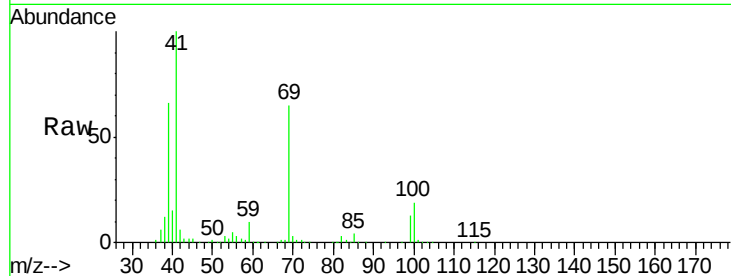
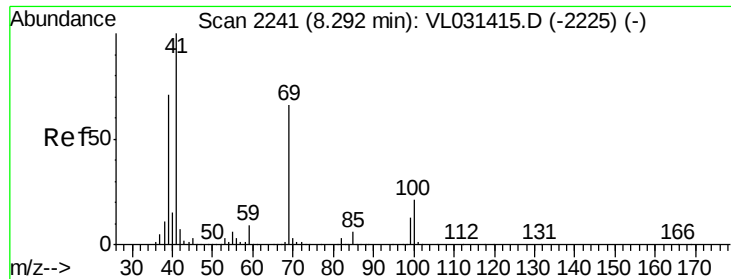
MMDadoda
1/24/2018 5:10:10 PM



#42
Bromodichloromethane
Concen: 1.90 ppbv
RT: 8.08 min Scan# 2174
Delta R.T. -0.00 min
Lab File: VL031416.D
Acq: 22 Jan 2018 13:55

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.9	52.1	78.1
127	7.9	6.6	10.0





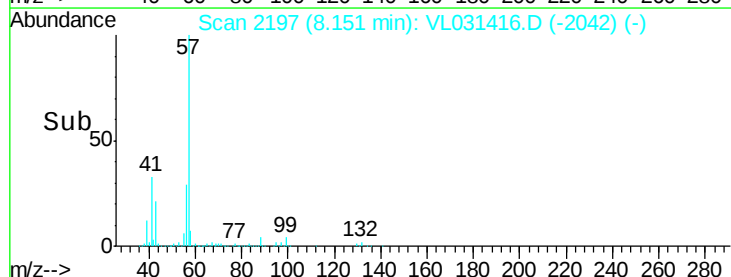
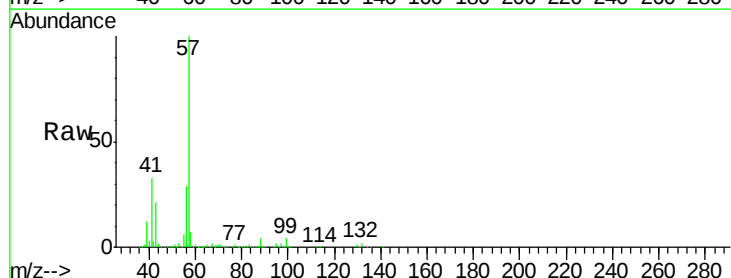
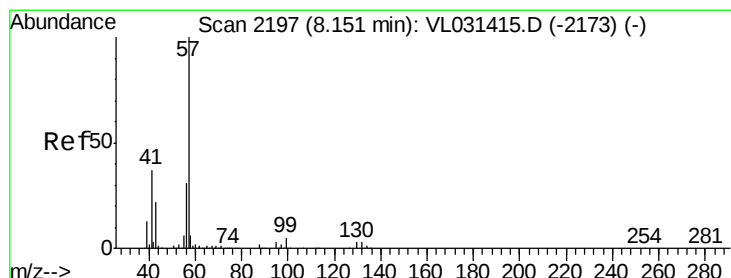
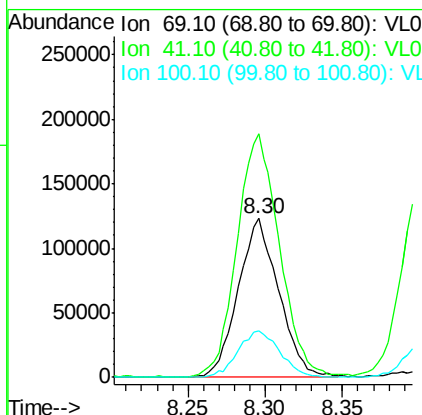
#43
Methyl Methacrylate
Concen: 1.83 ppbv
RT: 8.30 min Scan# 2242
Delta R.T. 0.00 min
Lab File: VL031416.D
Acq: 22 Jan 2018 13:55

Tot Ion	Ratio	Lower	Upper
69	100		
41	159.7	127.0	190.6
100	30.5	24.6	37.0

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

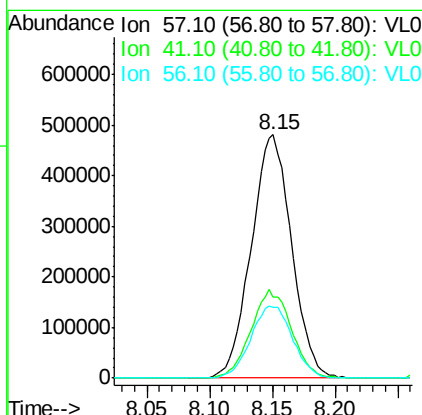
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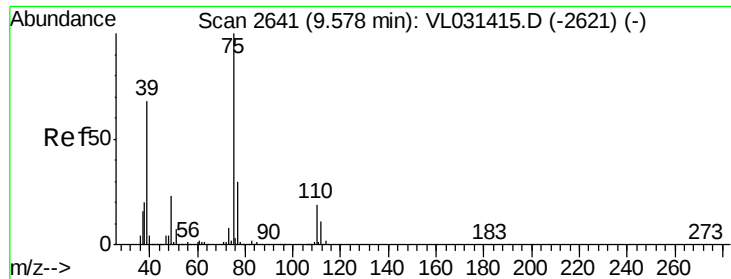
MMDadoda
1/24/2018 5:10:10 PM



#44
2,2,4-Trimethylpentane
Concen: 1.95 ppbv
RT: 8.15 min Scan# 2197
Delta R.T. -0.00 min
Lab File: VL031416.D
Acq: 22 Jan 2018 13:55

Tgt Ion	Ratio	Lower	Upper
57	100		
41	36.4	28.8	43.2
56	30.7	24.6	37.0





#45

t-1,3-Dichloropropene

Concen: 1.84 ppbv

RT: 9.58 min Scan# 2641

Delta R.T. -0.00 min

Lab File: VL031416.D

Acq: 22 Jan 2018 13:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 75 Resp: 311500

Ion Ratio Lower Upper

75 100

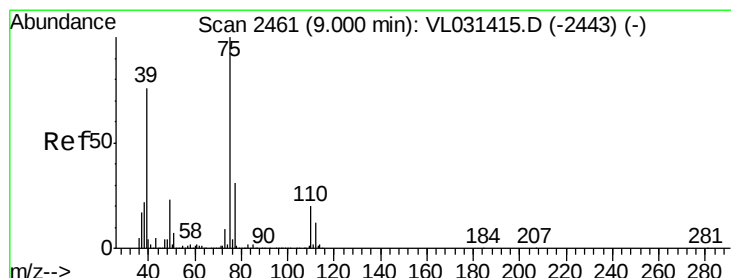
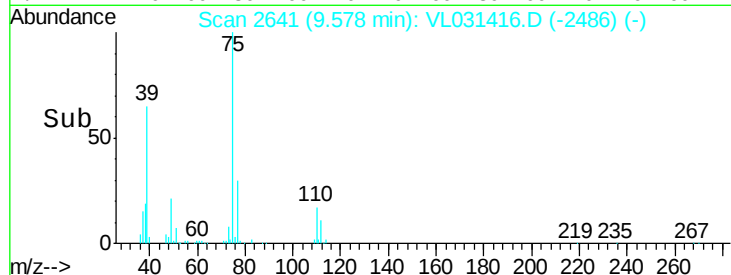
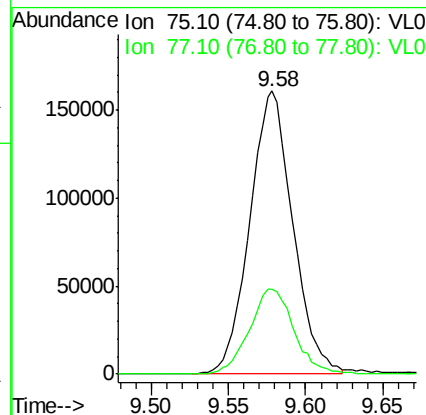
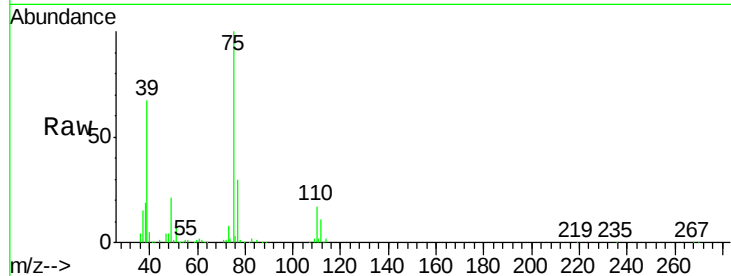
77 30.2 25.3 37.9

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#46

cis-1,3-Dichloropropene

Concen: 1.86 ppbv

RT: 9.00 min Scan# 2460

Delta R.T. -0.01 min

Lab File: VL031416.D

Acq: 22 Jan 2018 13:55

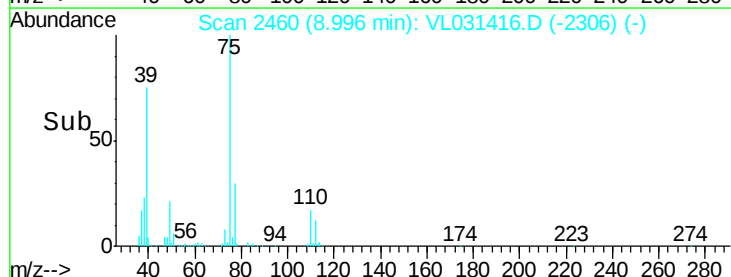
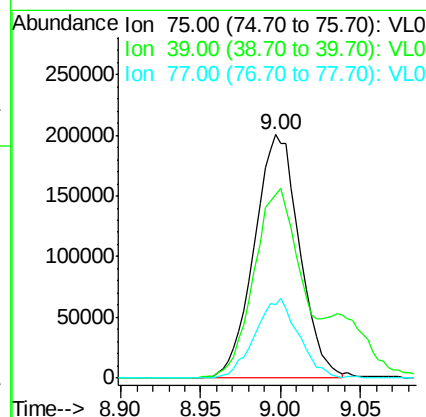
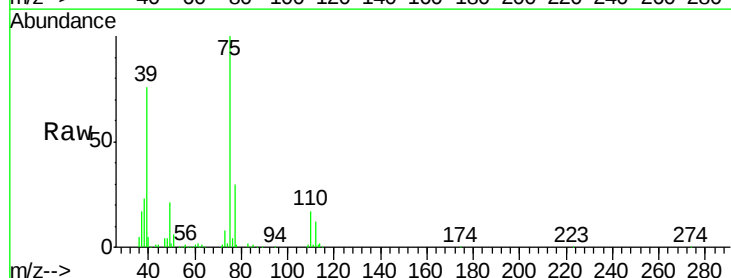
Tgt Ion: 75 Resp: 388987

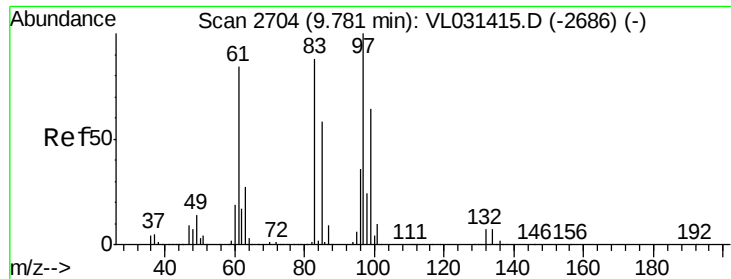
Ion Ratio Lower Upper

75 100

39 75.3 59.4 89.0

77 30.2 25.0 37.4





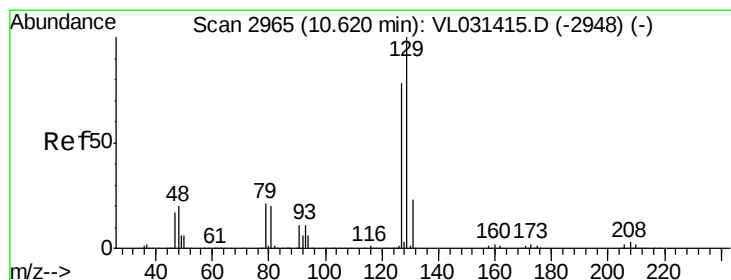
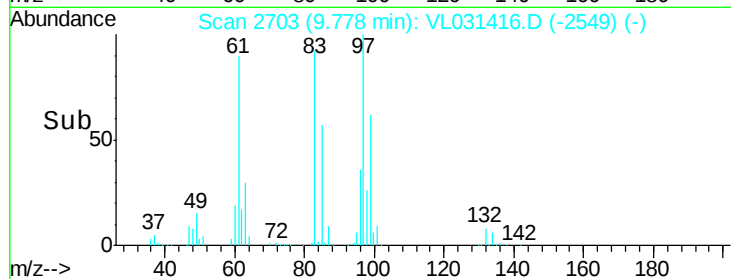
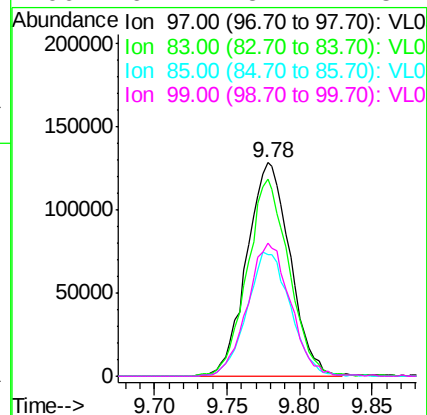
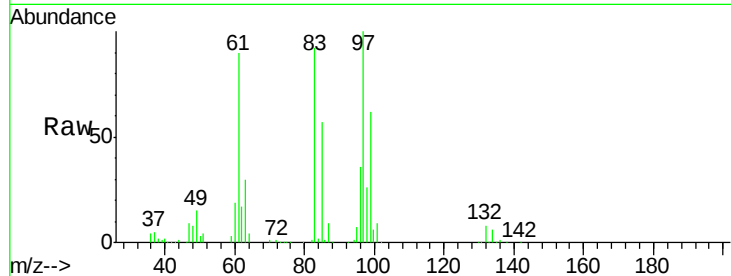
#47
 1,1,2-Trichloroethane
 Concen: 1.86 ppbv
 RT: 9.78 min Scan# 2703
 Delta R.T. -0.01 min
 Lab File: VL031416.D
 Acq: 22 Jan 2018 13:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion:	97	Resp:	266665
Ion	Ratio	Lower	Upper
97	100		
83	91.9	71.4	107.2
85	56.5	46.2	69.2
99	62.4	52.2	78.2

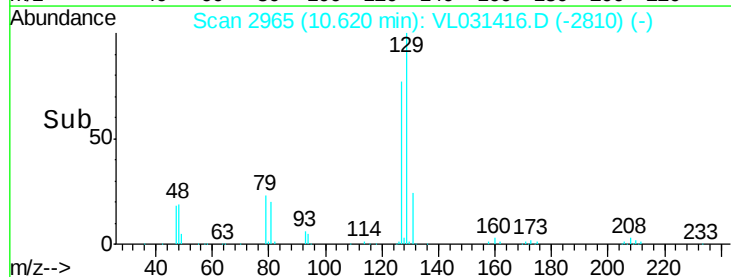
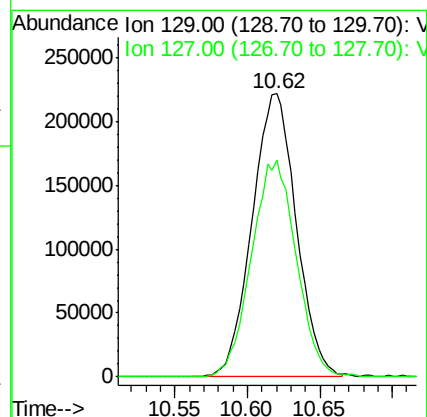
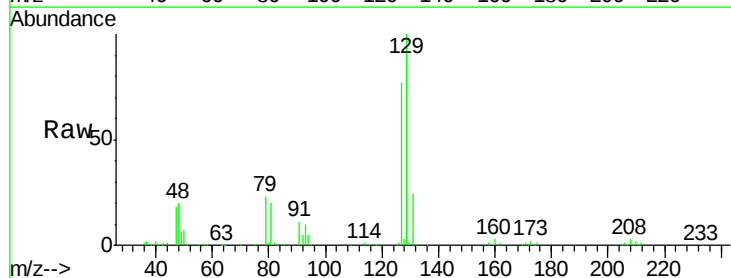
Manual Integrations
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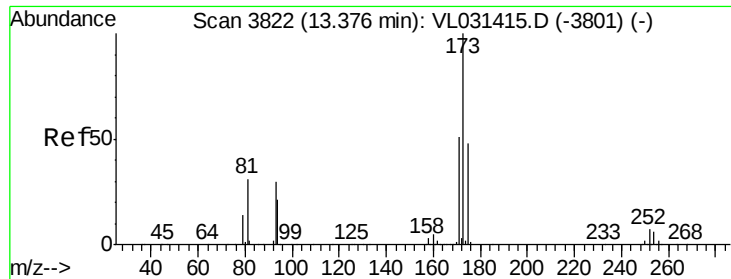
MMDadoda
 1/24/2018 5:10:10 PM



#48
 Dibromochloromethane
 Concen: 1.85 ppbv
 RT: 10.62 min Scan# 2965
 Delta R.T. -0.00 min
 Lab File: VL031416.D
 Acq: 22 Jan 2018 13:55

Tgt Ion:	129	Resp:	470737
Ion	Ratio	Lower	Upper
129	100		
127	77.9	39.4	118.1





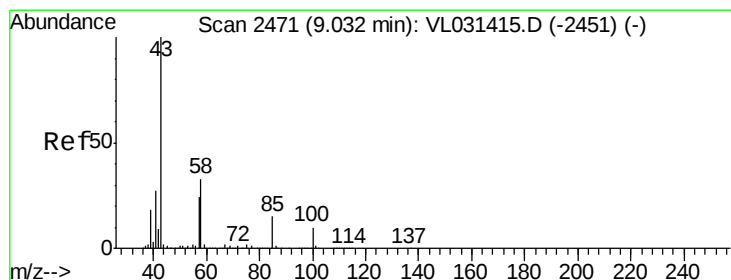
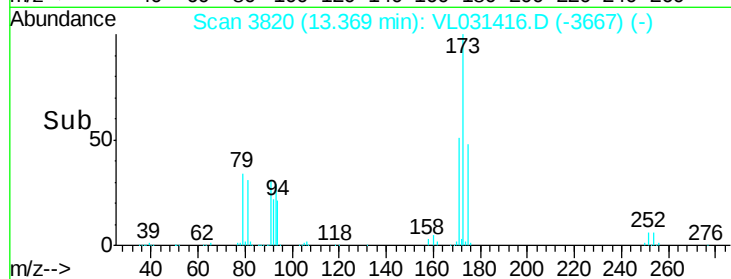
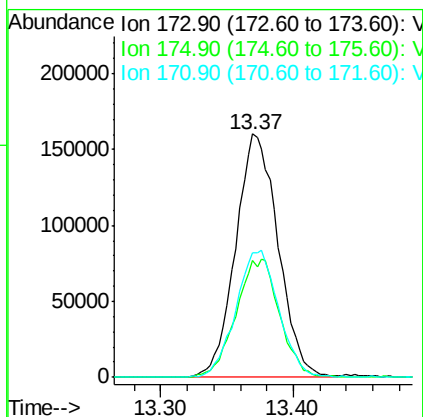
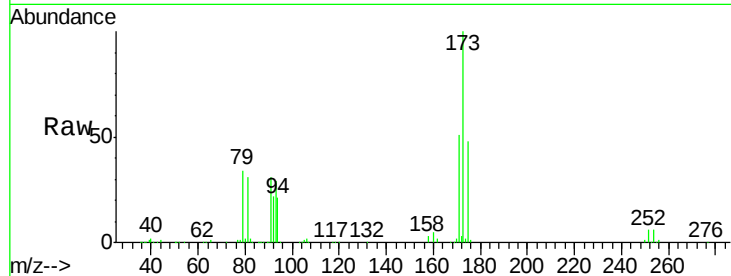
#49
Bromoform
Concen: 1.79 ppbv
RT: 13.37 min Scan# 3820
Delta R.T. -0.01 min
Lab File: VL031416.D
Acq: 22 Jan 2018 13:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.6	39.0	58.4
171	52.5	42.0	63.0

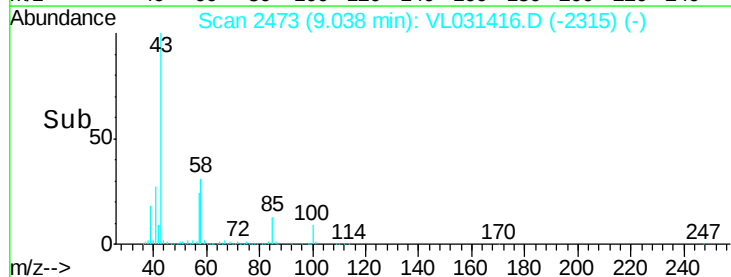
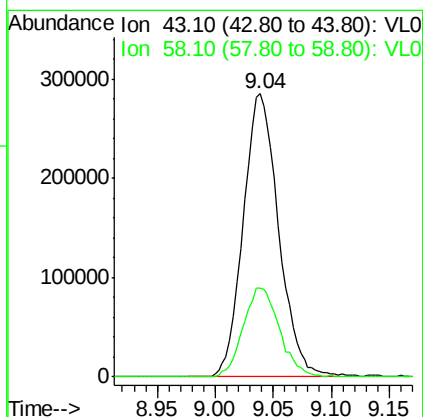
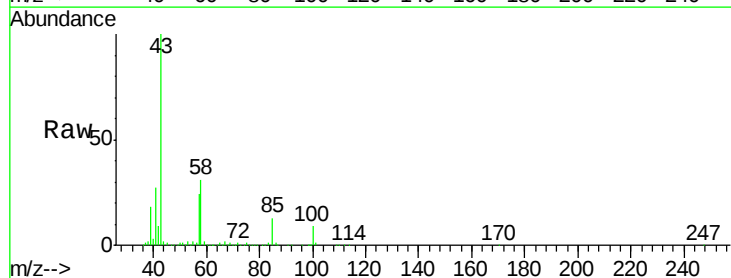
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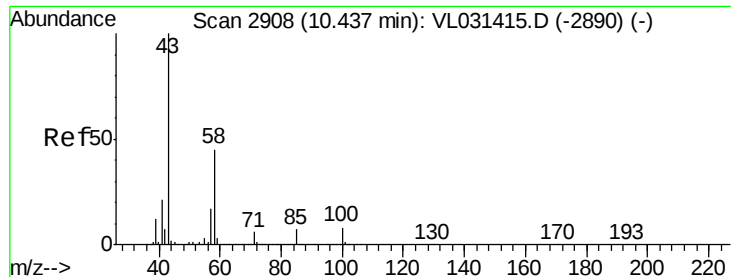
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 1.73 ppbv
RT: 9.04 min Scan# 2473
Delta R.T. 0.01 min
Lab File: VL031416.D
Acq: 22 Jan 2018 13:55

Tgt Ion	Ratio	Lower	Upper
43	100		
58	32.6	27.1	40.7





#51

2-Hexanone

Concen: 1.60 ppbv

RT: 10.45 min Scan# 2911

Delta R.T. 0.01 min

Lab File: VL031416.D

Acq: 22 Jan 2018 13:55

Instrument :

MSVOA_L

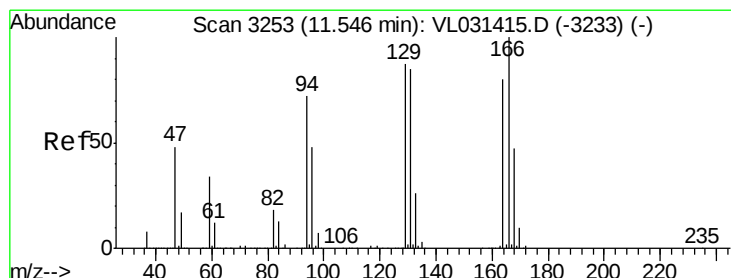
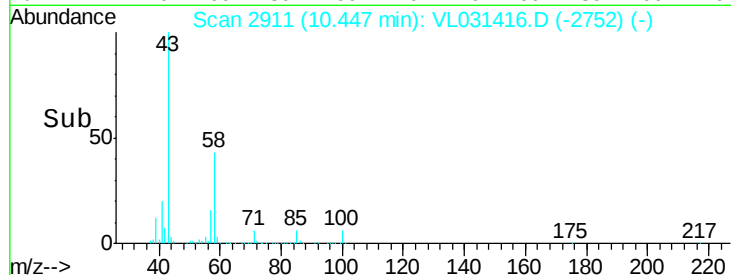
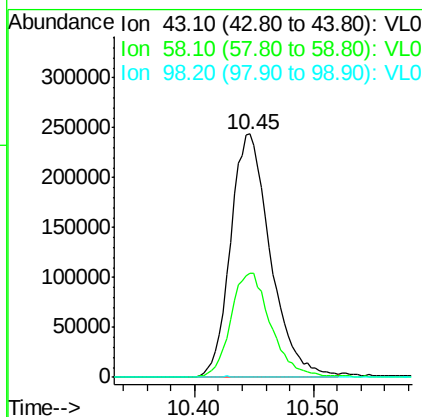
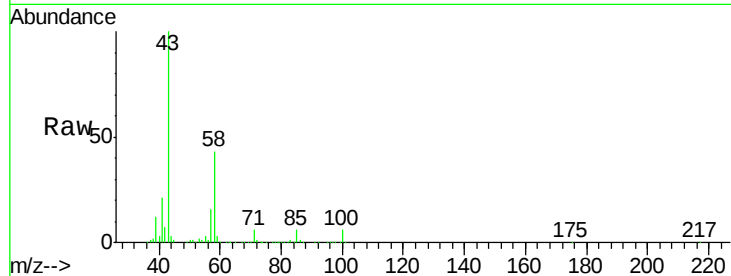
ClientSampleId :

VSTDIC002

Tot Ion	Ratio	Lower	Upper
43	100		
58	43.5	36.2	54.4
98	0.2	0.1	0.1#

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#52

Tetrachloroethene

Concen: 1.78 ppbv

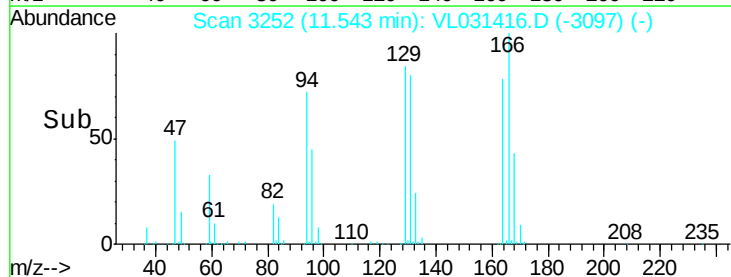
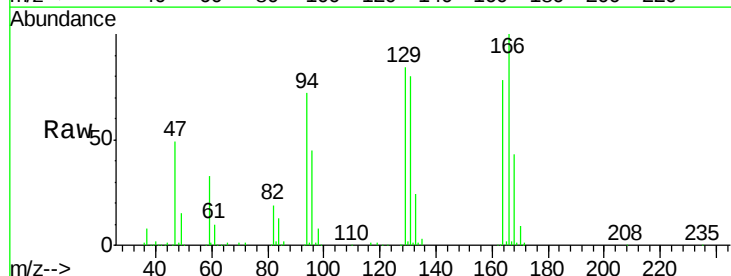
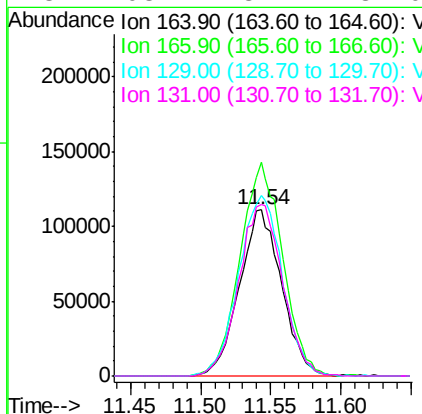
RT: 11.54 min Scan# 3252

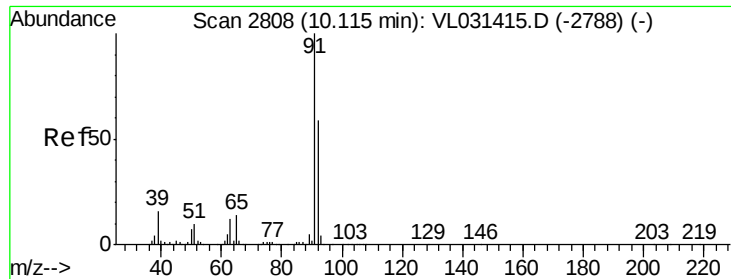
Delta R.T. -0.00 min

Lab File: VL031416.D

Acq: 22 Jan 2018 13:55

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.6	100.2	150.2
129	108.5	91.4	137.0
131	103.2	87.4	131.0





#53

Toluene

Concen: 1.88 ppbv

RT: 10.12 min Scan# 2808

Delta R.T. -0.00 min

Lab File: VL031416.D

Acq: 22 Jan 2018 13:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 731342

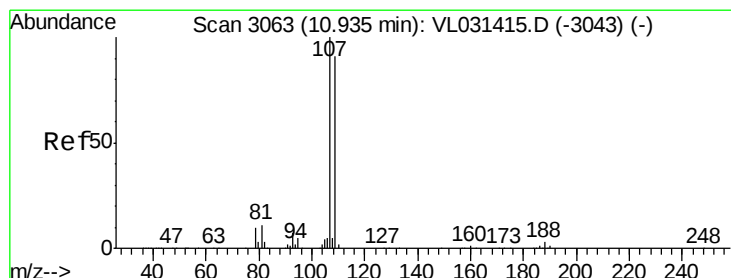
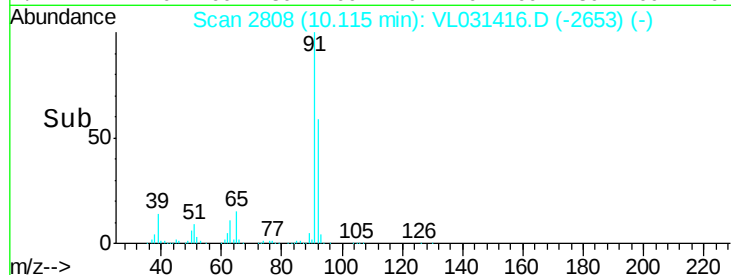
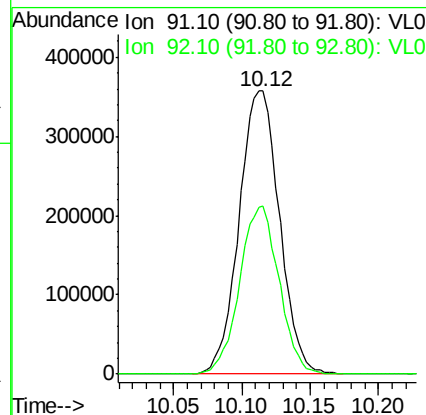
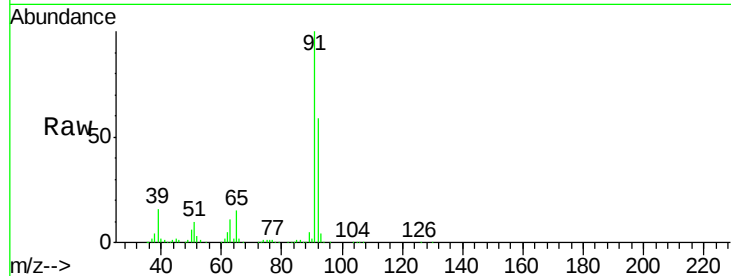
Ion Ratio Lower Upper

91 100

92 58.4 47.8 71.6

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#54

1,2-Dibromoethane

Concen: 1.84 ppbv

RT: 10.93 min Scan# 3061

Delta R.T. -0.00 min

Lab File: VL031416.D

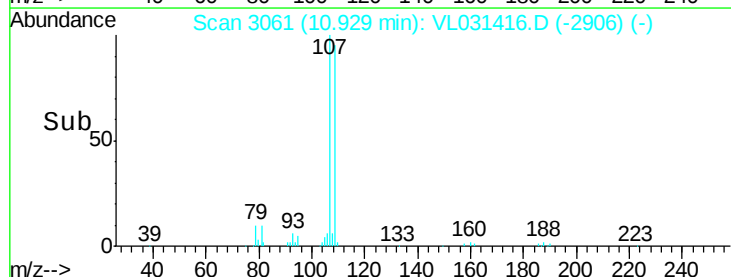
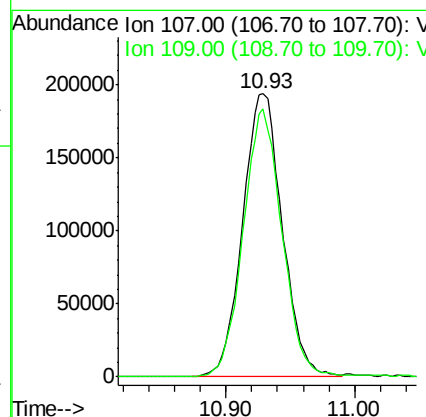
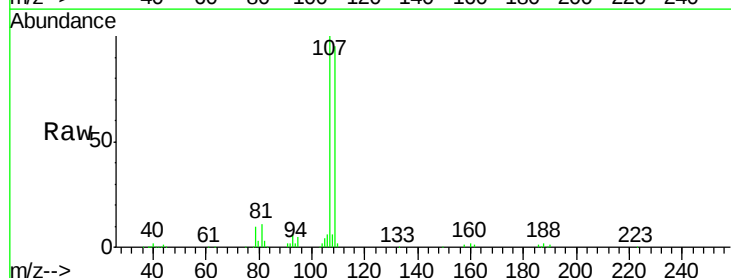
Acq: 22 Jan 2018 13:55

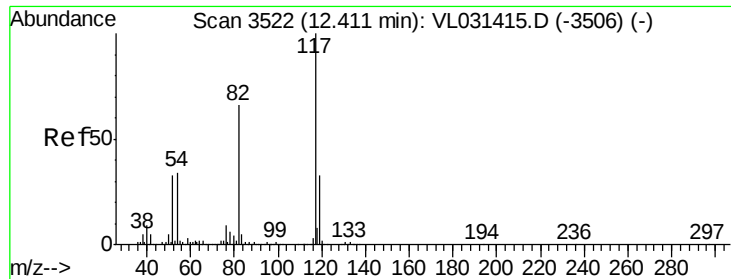
Tgt Ion: 107 Resp: 414686

Ion Ratio Lower Upper

107 100

109 94.6 75.5 113.3





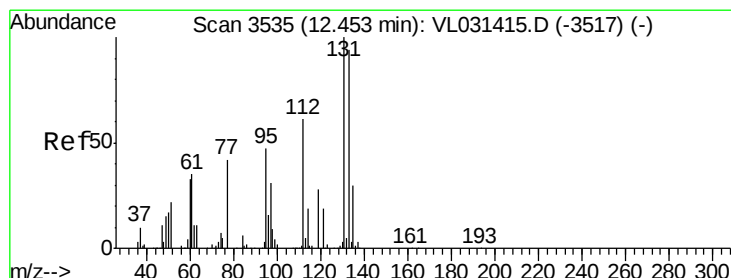
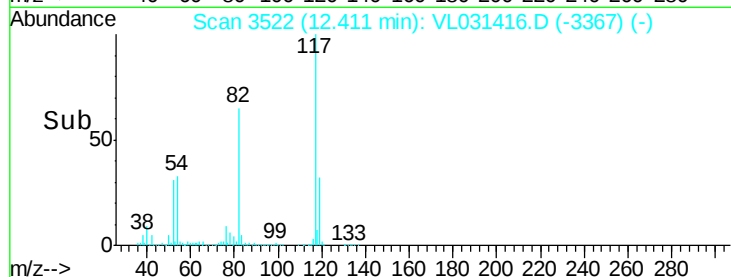
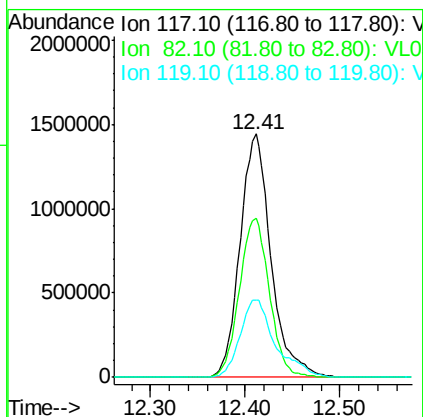
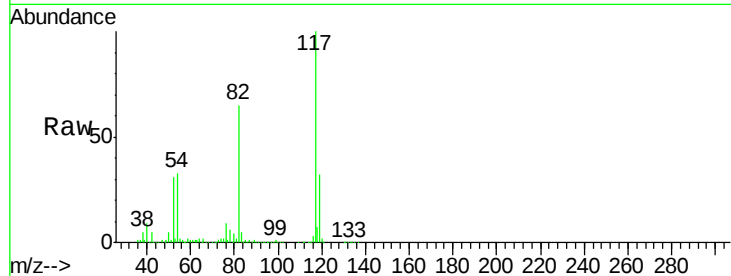
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.41 min Scan# 3522
Delta R.T. -0.00 min
Lab File: VL031416.D
Acq: 22 Jan 2018 13:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
117	100		
82	63.7	51.8	77.6
119	36.4	24.2	36.2#

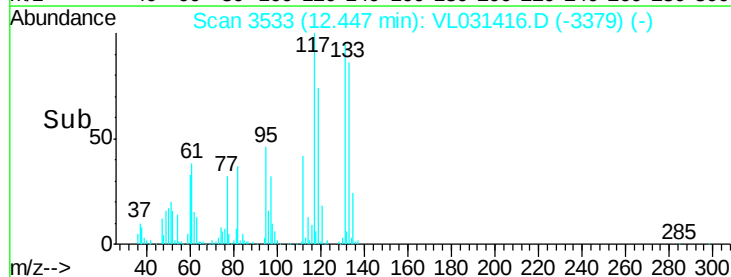
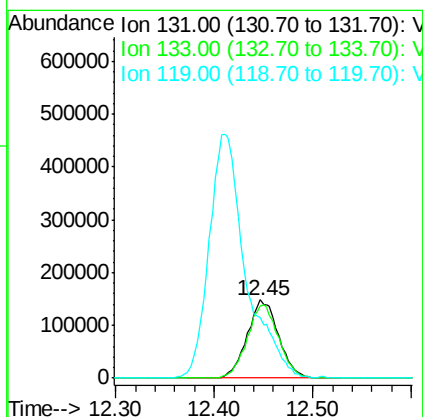
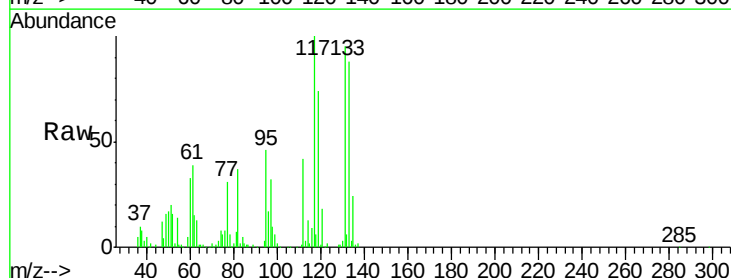
Manual Integrations
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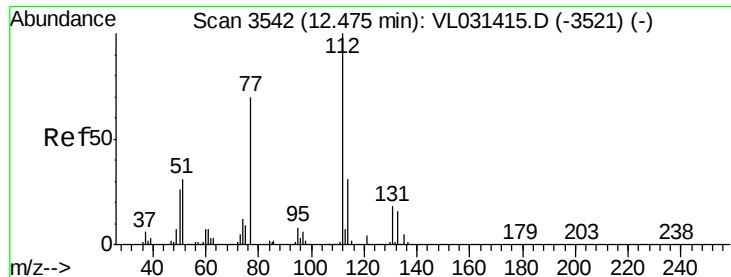
MMDadoda
1/24/2018 5:10:10 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 1.94 ppbv m
RT: 12.45 min Scan# 3533
Delta R.T. -0.01 min
Lab File: VL031416.D
Acq: 22 Jan 2018 13:55

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.5	76.9	115.3
119	0.0	47.7	71.5#





#57

Chlorobenzene

Concen: 1.95 ppbv

RT: 12.47 min Scan# 3540

Delta R.T. -0.01 min

Lab File: VL031416.D

Acq: 22 Jan 2018 13:55

Instrument :

MSVOA_L

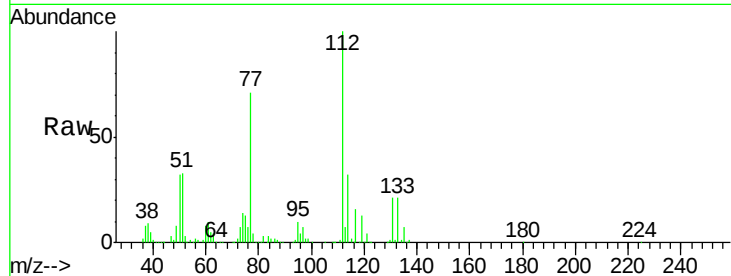
ClientSampleId :

VSTDIC002

Tot Ion:	112	Resp:	605113
Ion Ratio	Lower	Upper	
112	100		
77	70.9	56.0	84.0
114	31.4	29.1	35.5

Manual Integrations
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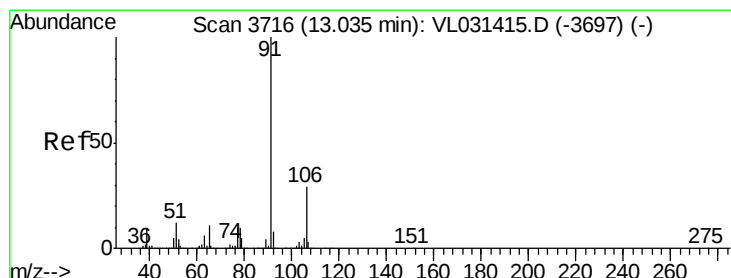
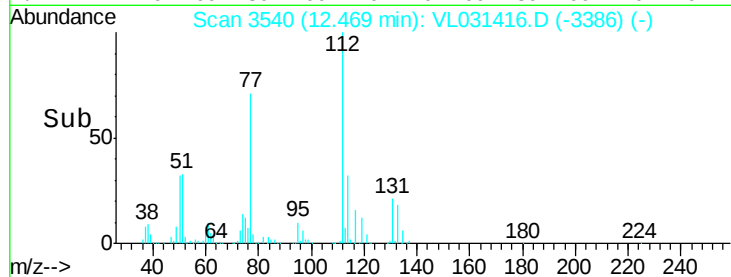
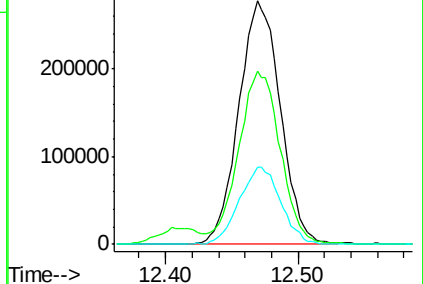
MMDadoda
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 1.95 ppbv

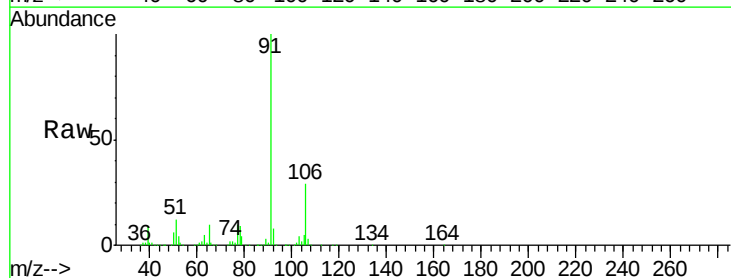
RT: 13.03 min Scan# 3715

Delta R.T. -0.01 min

Lab File: VL031416.D

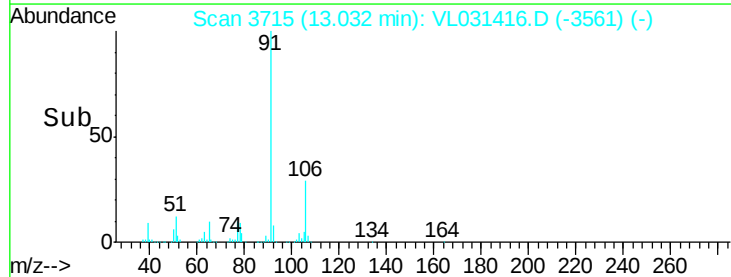
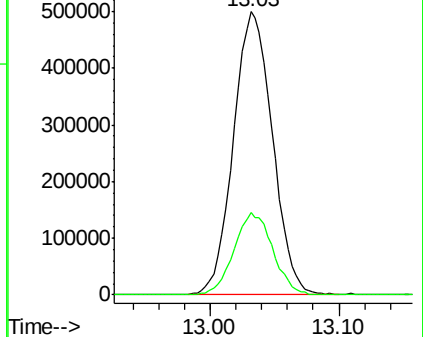
Acq: 22 Jan 2018 13:55

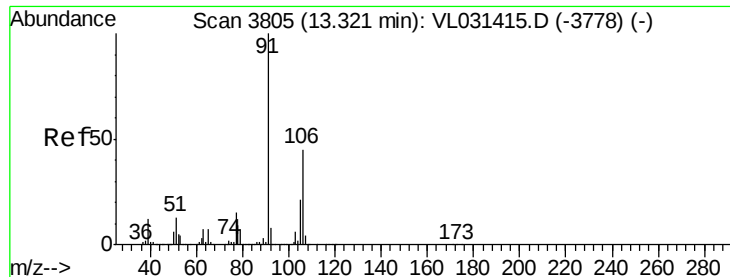
Tgt Ion:	91	Resp:	1045955
Ion Ratio	Lower	Upper	
91	100		
106	29.0	23.8	35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





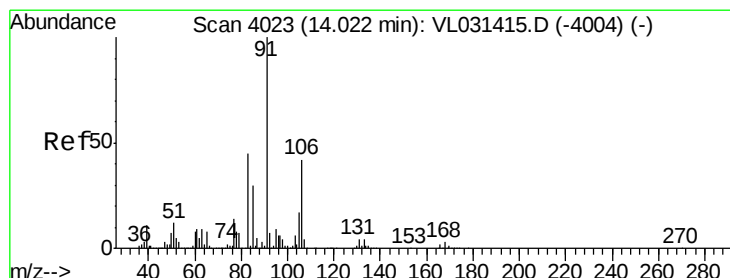
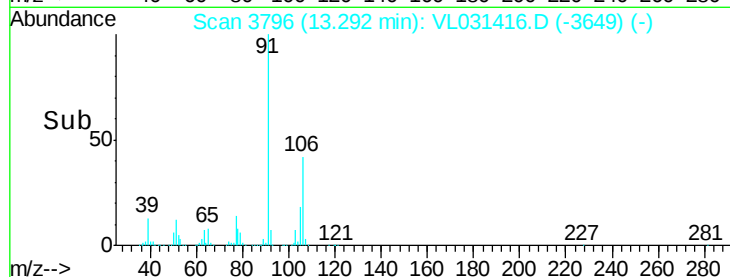
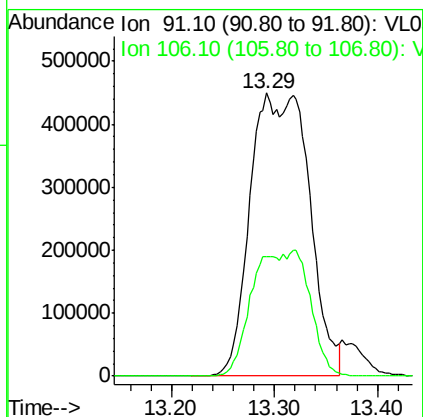
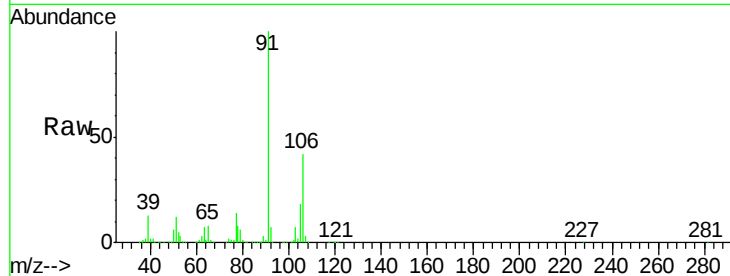
#59
m/p-Xylene
Concen: 4.02 ppbv m
RT: 13.29 min Scan# 3796
Delta R.T. -0.03 min
Lab File: VL031416.D
Acq: 22 Jan 2018 13:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 91 Resp: 1783924
Ion Ratio Lower Upper
91 100
106 43.4 35.6 53.4

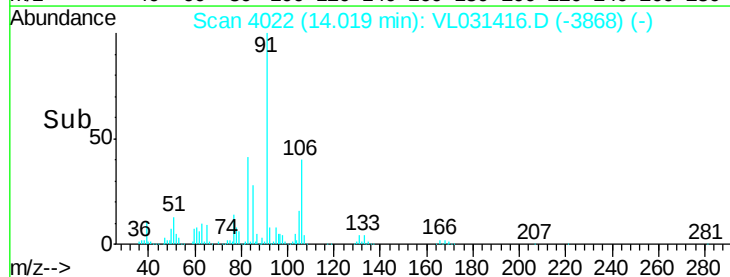
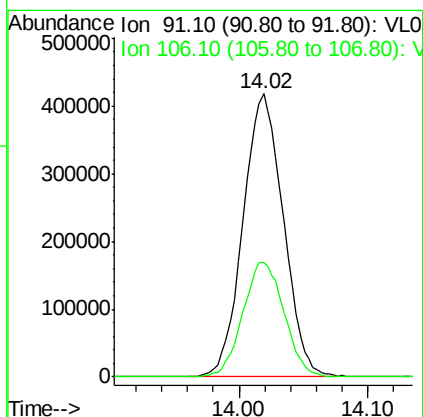
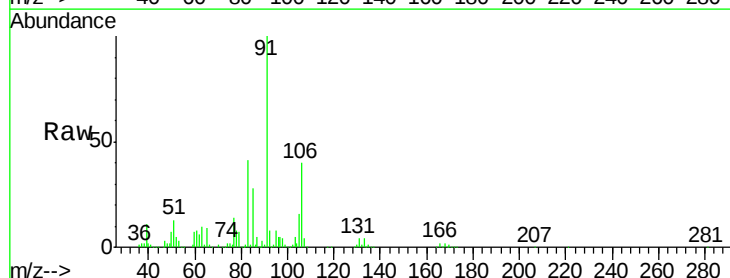
Manual Integrations
APPROVED

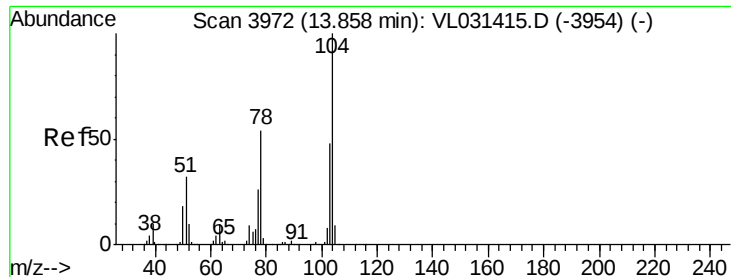
MMDadoda
1/24/2018 5:10:10 PM



#60
o-Xylene
Concen: 2.01 ppbv
RT: 14.02 min Scan# 4022
Delta R.T. -0.01 min
Lab File: VL031416.D
Acq: 22 Jan 2018 13:55

Tgt Ion: 91 Resp: 909196
Ion Ratio Lower Upper
91 100
106 41.7 21.3 64.0





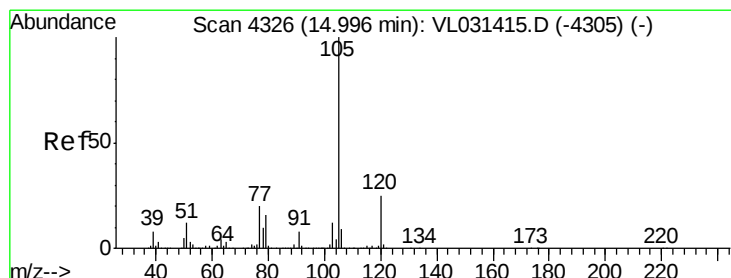
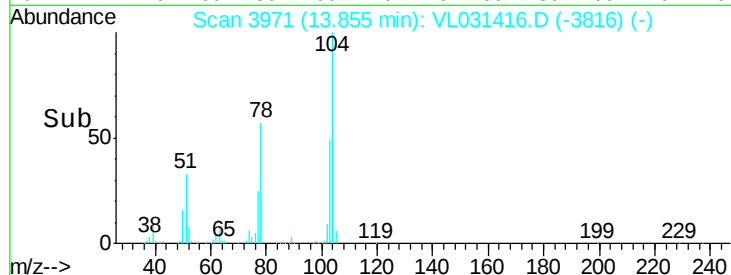
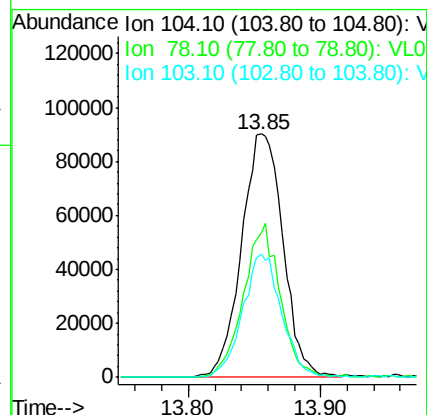
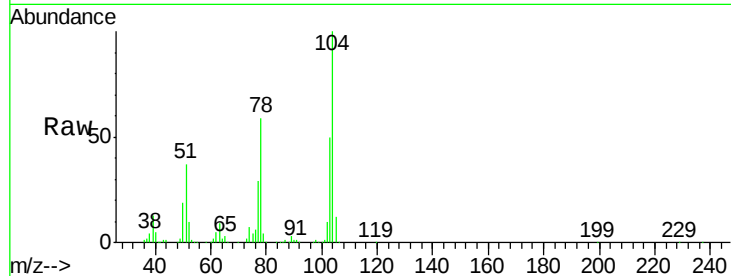
#61
Stvrene
Concen: 1.98 ppbv
RT: 13.85 min Scan# 3971
Delta R.T. -0.00 min
Lab File: VL031416.D
Acq: 22 Jan 2018 13:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
104	100		
78	56.3	45.4	68.0
103	47.7	38.6	57.8

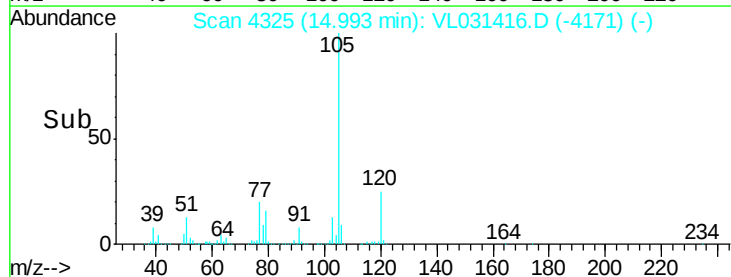
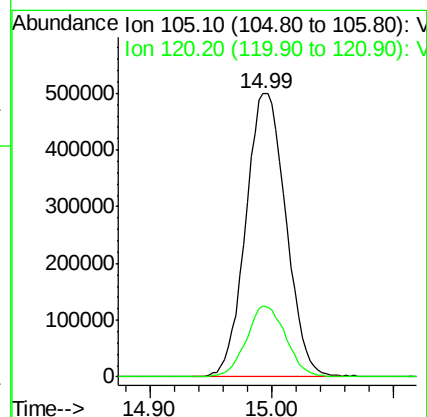
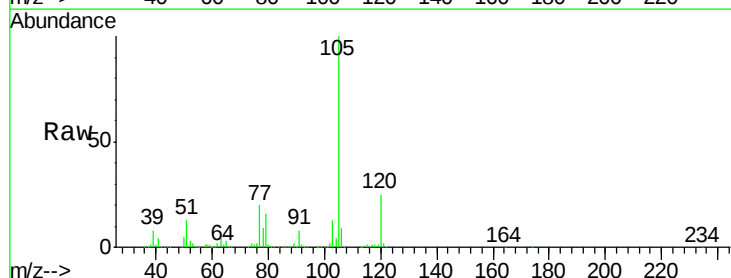
Manual Integrations
APPROVED

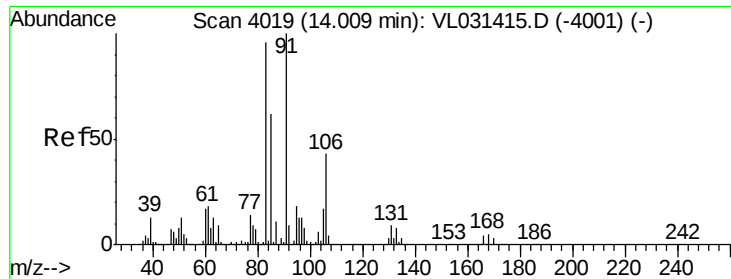
MMDadoda
1/24/2018 5:10:10 PM



#62
Isopropylbenzene
Concen: 1.99 ppbv
RT: 14.99 min Scan# 4325
Delta R.T. -0.01 min
Lab File: VL031416.D
Acq: 22 Jan 2018 13:55

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.7	19.9	29.9





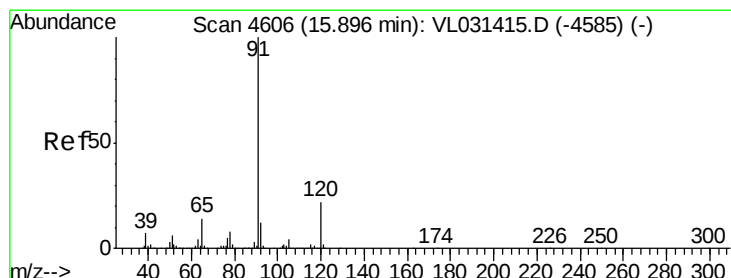
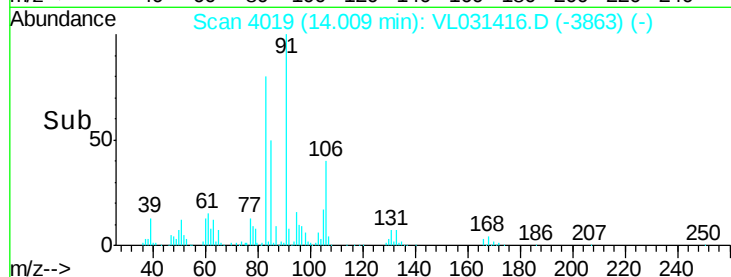
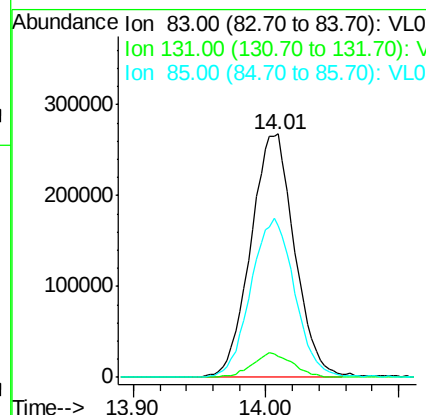
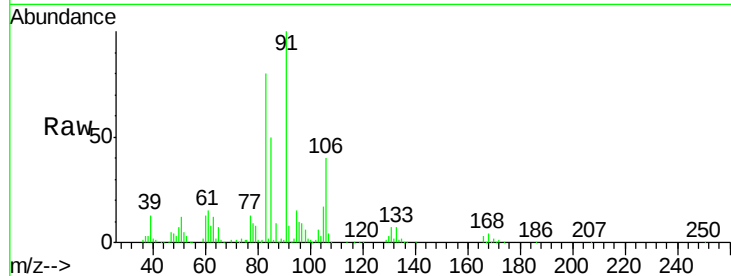
#63
 1,1,2,2-Tetrachloroethane
 Concen: 1.80 ppbv
 RT: 14.01 min Scan# 4019
 Delta R.T. 0.00 min
 Lab File: VL031416.D
 Acq: 22 Jan 2018 13:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	83	Resp	615455
Ion Ratio	100	Lower	Upper
83	100		
131	9.3	4.8	14.3
85	65.8	32.4	97.0

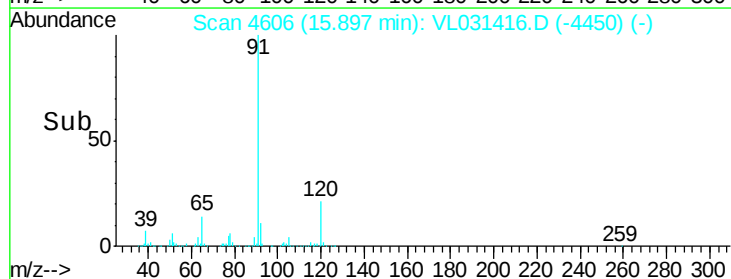
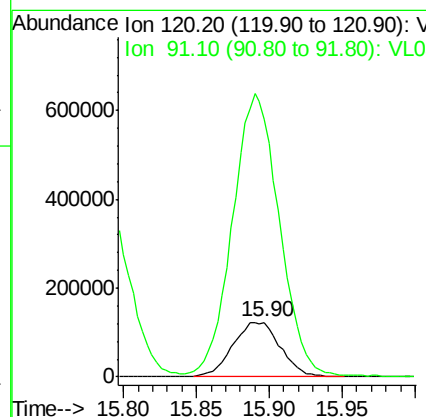
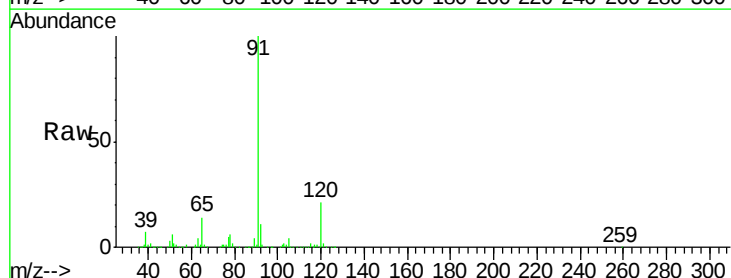
Manual Integrations
 APPROVED

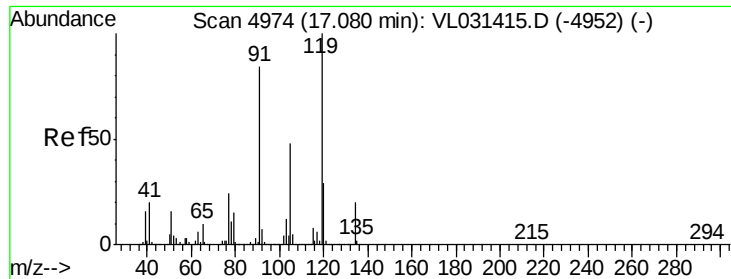
MMDadoda
 1/24/2018 5:10:10 PM



#64
 n-propylbenzene
 Concen: 1.96 ppbv m
 RT: 15.90 min Scan# 4606
 Delta R.T. 0.00 min
 Lab File: VL031416.D
 Acq: 22 Jan 2018 13:55

Tgt Ion	120	Resp	280177
Ion Ratio	100	Lower	Upper
120	100		
91	513.3	389.8	584.6





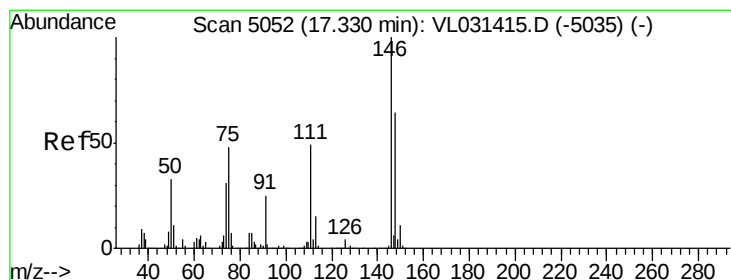
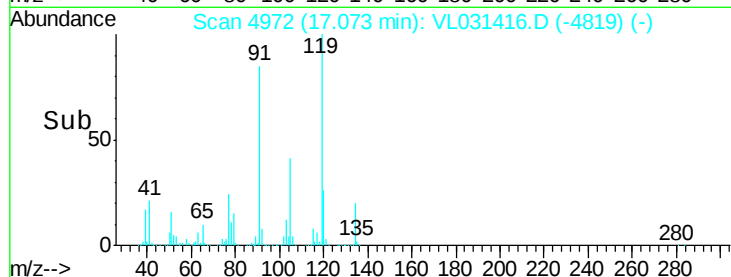
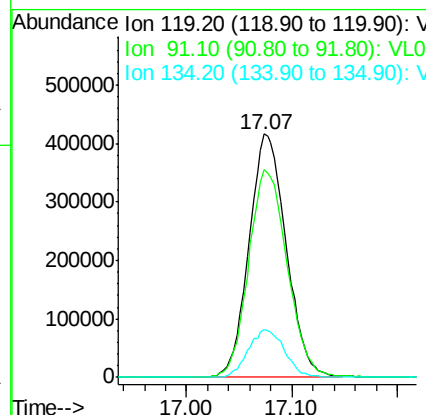
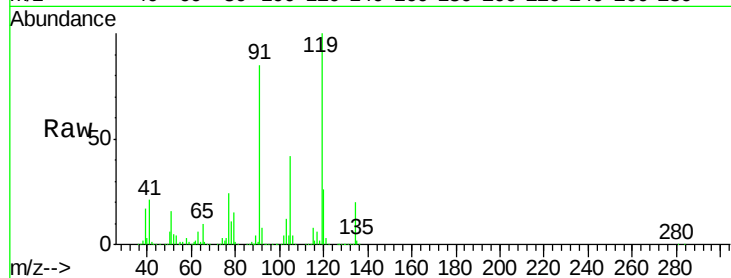
#65
tert-Butylbenzene
Concen: 2.02 ppbv
RT: 17.07 min Scan# 4972
Delta R.T. -0.01 min
Lab File: VL031416.D
Acq: 22 Jan 2018 13:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion:119 Resp: 1020566
Ion Ratio Lower Upper
119 100
91 88.8 69.0 103.6
134 19.3 15.7 23.5

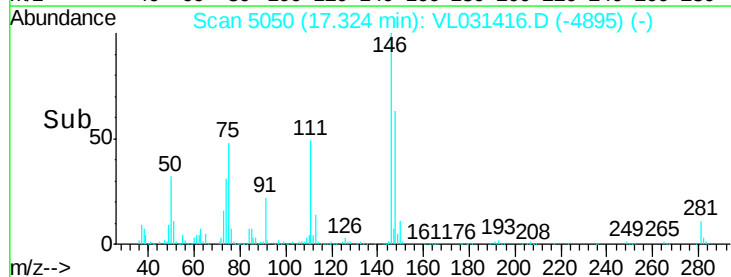
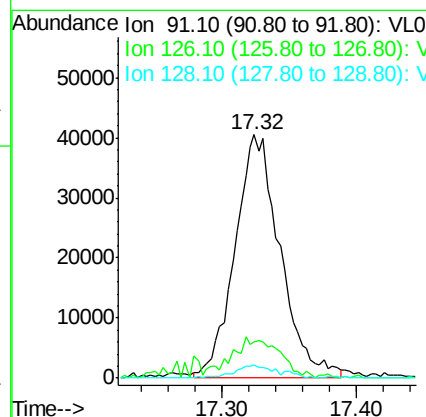
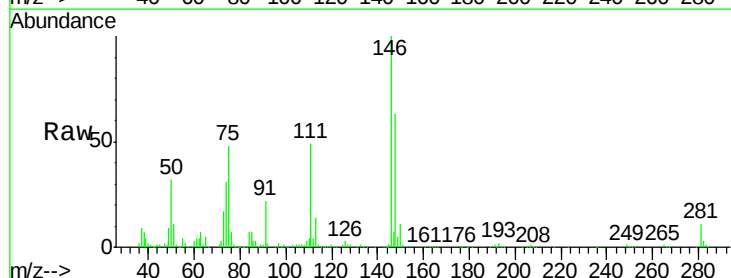
Manual Integrations
APPROVED

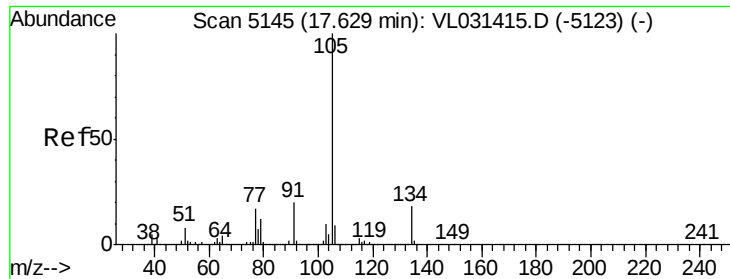
MMDadoda
1/24/2018 5:10:10 PM



#66
Benzyl Chloride
Concen: 1.99 ppbv m
RT: 17.32 min Scan# 5050
Delta R.T. -0.00 min
Lab File: VL031416.D
Acq: 22 Jan 2018 13:55

Tgt Ion: 91 Resp: 94674
Ion Ratio Lower Upper
91 100
126 19.6 13.8 20.8
128 5.2 4.6 6.8





#67

sec-Butylbenzene

Concen: 2.01 ppbv

RT: 17.63 min Scan# 5145

Delta R.T. -0.00 min

Lab File: VL031416.D

Acq: 22 Jan 2018 13:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:105 Resp: 1444511

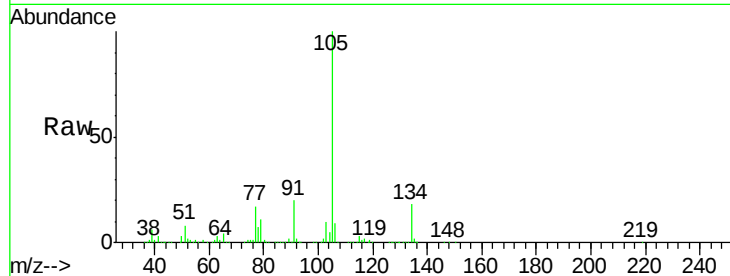
Ion Ratio Lower Upper

105 100

134 17.9 14.5 21.7

Manual Integrations
APPROVED

MMDadoda
1/24/2018 5:10:10 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.63

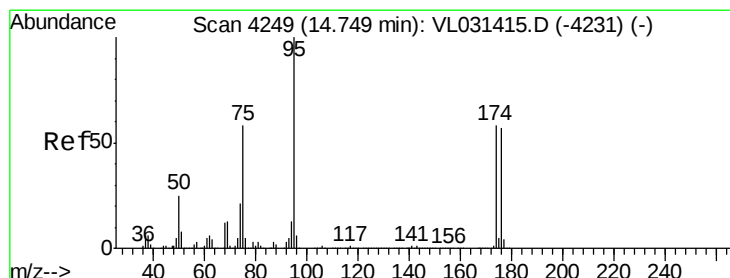
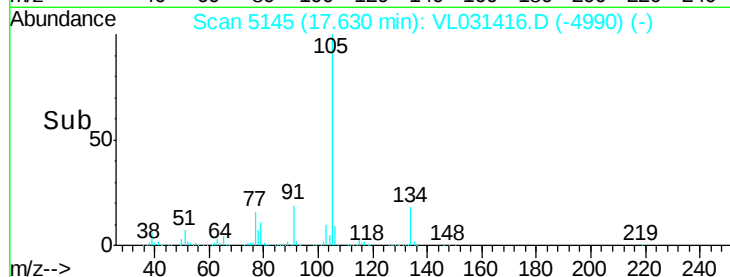
600000

400000

200000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.92 ppbv

RT: 14.75 min Scan# 4249

Delta R.T. 0.00 min

Lab File: VL031416.D

Acq: 22 Jan 2018 13:55

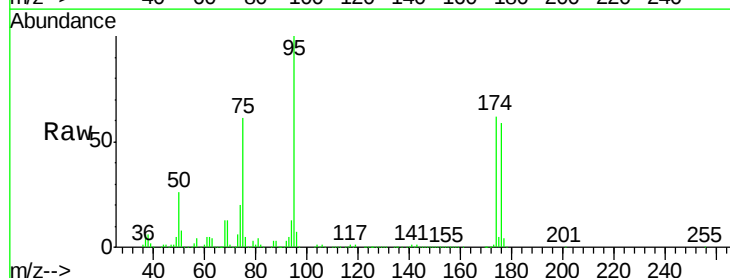
Tgt Ion: 95 Resp: 2572055

Ion Ratio Lower Upper

95 100

174 61.3 48.2 72.4

175 4.6 3.6 5.4



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

14.75

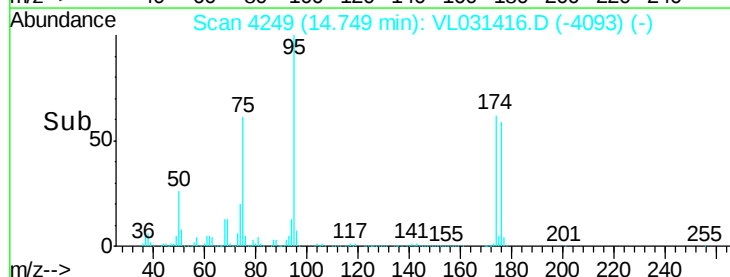
1500000

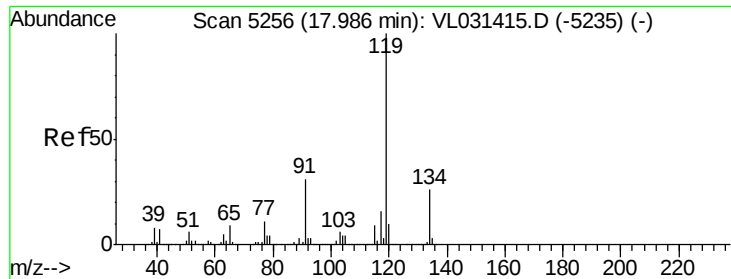
1000000

500000

0

Time-->





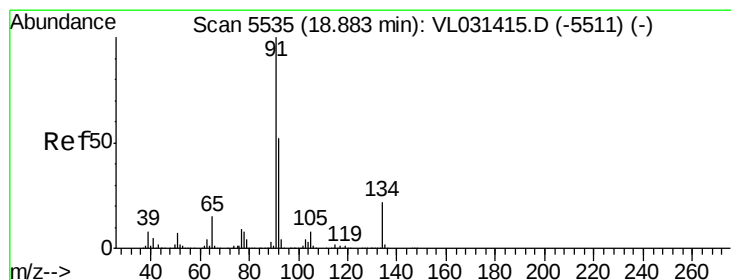
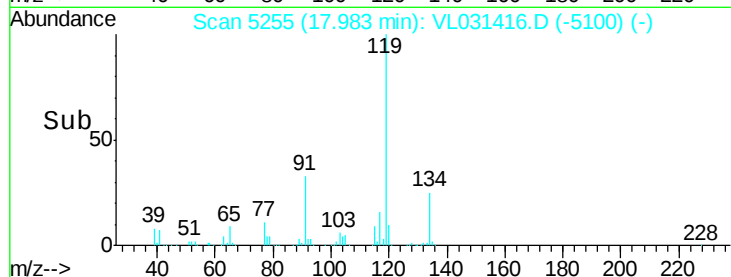
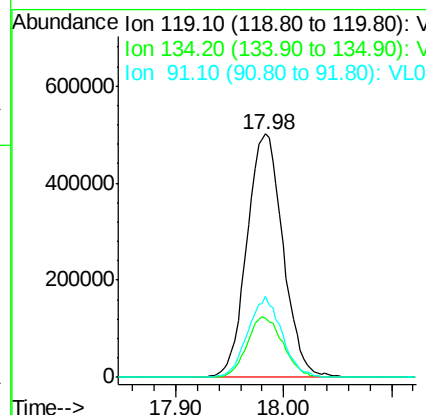
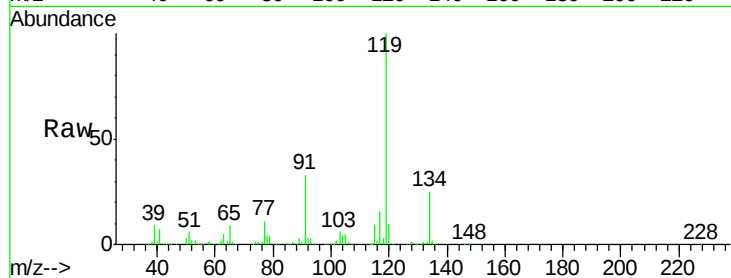
#69
 p-Isopropyltoluene
 Concen: 2.04 ppbv
 RT: 17.98 min Scan# 5255
 Delta R.T. -0.00 min
 Lab File: VL031416.D
 Acq: 22 Jan 2018 13:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.8	20.2	30.4
91	31.4	25.0	37.4

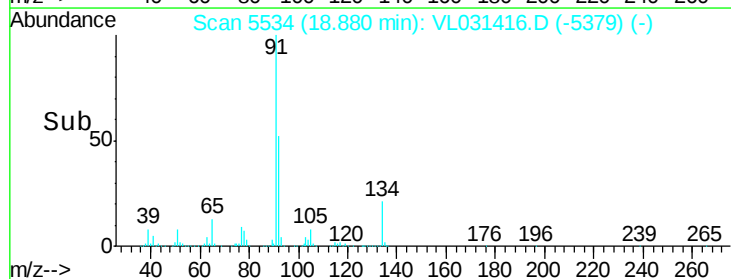
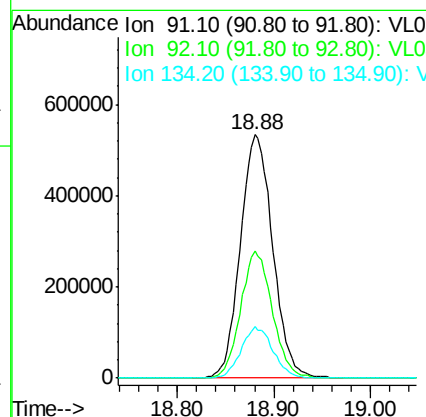
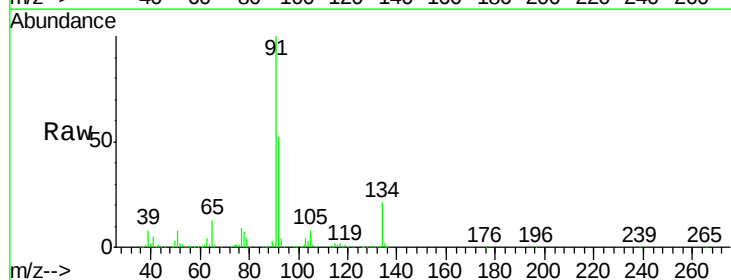
Manual Integrations
 APPROVED

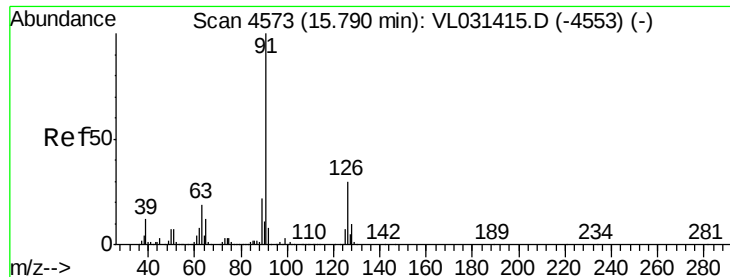
MMDadoda
 1/24/2018 5:10:10 PM



#70
 n-Butylbenzene
 Concen: 2.08 ppbv
 RT: 18.88 min Scan# 5534
 Delta R.T. -0.00 min
 Lab File: VL031416.D
 Acq: 22 Jan 2018 13:55

Tgt Ion	Ratio	Lower	Upper
91	100		
92	51.2	42.2	63.4
134	20.8	17.4	26.2





#71

2-Chlorotoluene

Concen: 1.98 ppbv

RT: 15.79 min Scan# 4572

Delta R.T. -0.01 min

Lab File: VL031416.D

Acq: 22 Jan 2018 13:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 863080

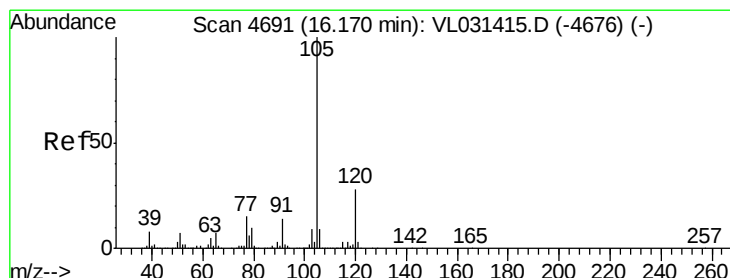
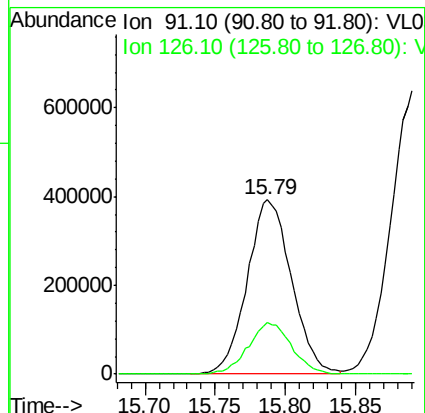
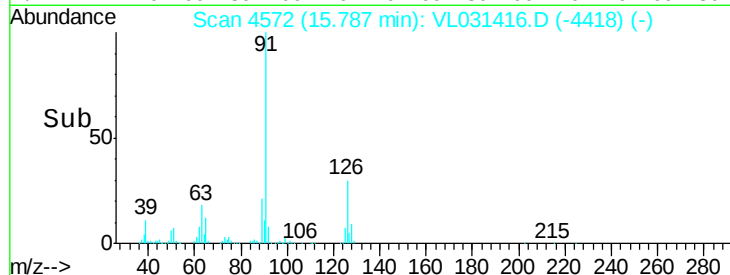
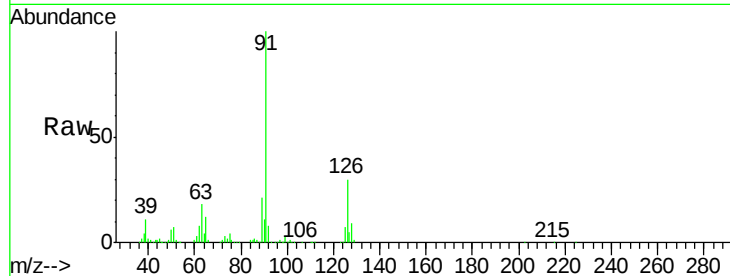
Ion Ratio Lower Upper

91 100

126 29.1 11.7 46.9

Manual Integrations
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MMDadoda
1/24/2018 5:10:10 PM



#72

4-Ethyltoluene

Concen: 2.02 ppbv

RT: 16.17 min Scan# 4691

Delta R.T. -0.00 min

Lab File: VL031416.D

Acq: 22 Jan 2018 13:55

Tgt Ion: 105 Resp: 933144

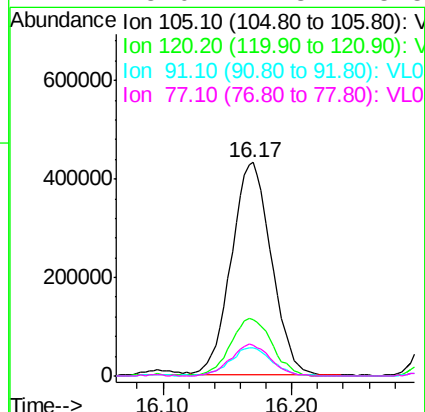
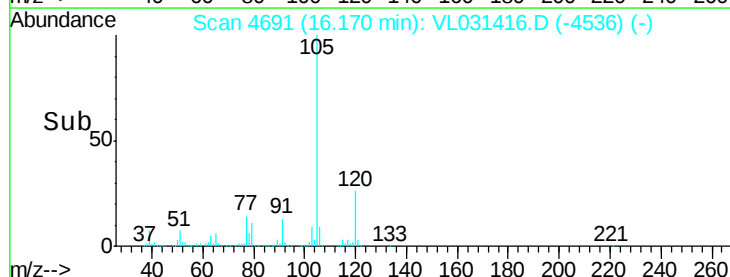
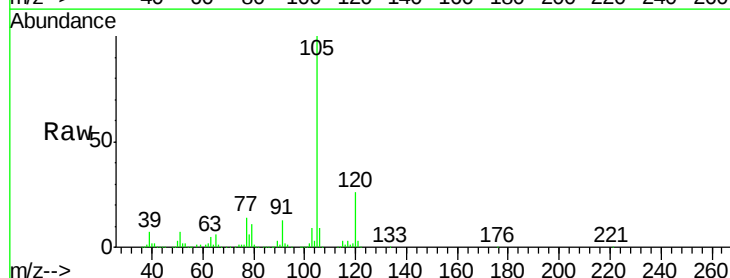
Ion Ratio Lower Upper

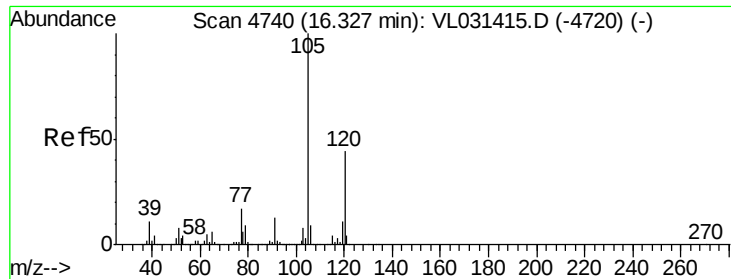
105 100

120 28.0 23.0 34.6

91 14.0 11.0 16.4

77 15.0 12.3 18.5





#73

1,3,5-Trimethylbenzene

Concen: 2.06 ppbv

RT: 16.32 min Scan# 4738

Delta R.T. -0.01 min

Lab File: VL031416.D

Acq: 22 Jan 2018 13:55

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:105 Resp: 848193

Ion Ratio Lower Upper

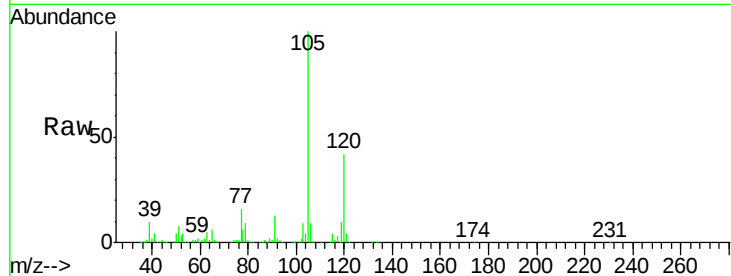
105 100

120 41.6 35.8 53.6

Manual Integrations
APPROVED

MMDadoda

1/24/2018 5:10:10 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.32

400000

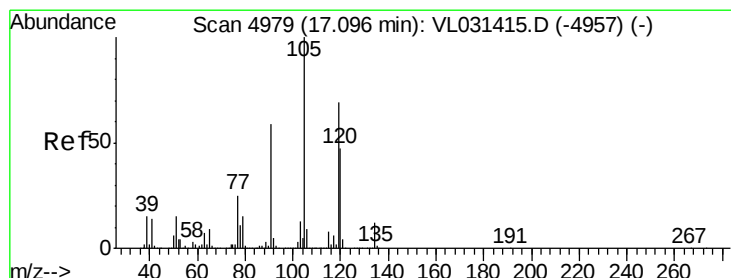
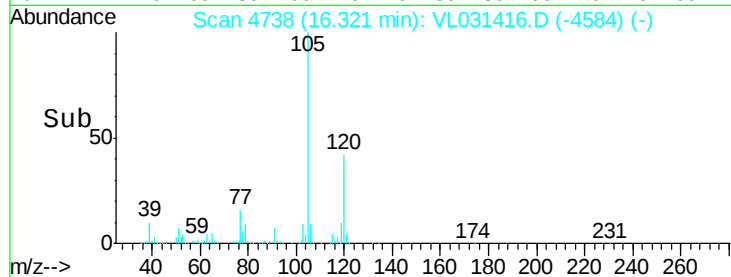
300000

200000

100000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 2.09 ppbv

RT: 17.09 min Scan# 4978

Delta R.T. -0.01 min

Lab File: VL031416.D

Acq: 22 Jan 2018 13:55

Tgt Ion:105 Resp: 937175

Ion Ratio Lower Upper

105 100

120 46.0 37.0 55.6

91 55.6 35.1 52.7#

77 24.5 17.9 26.9

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

600000

500000

400000

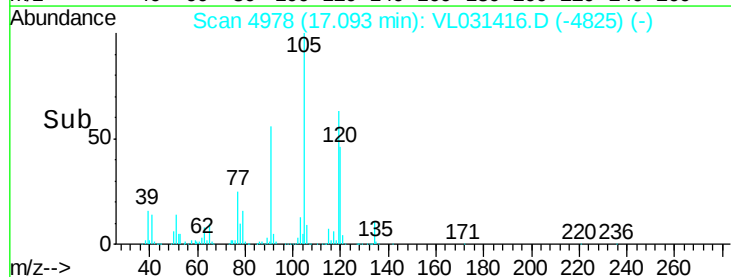
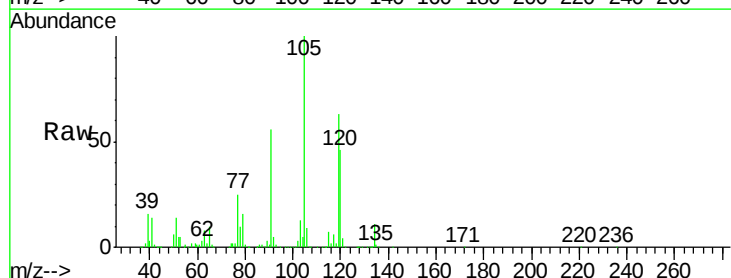
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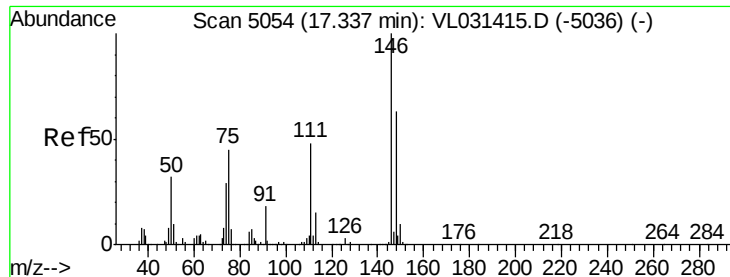
200000

100000

0

Time-->





#75

1,3-Dichlorobenzene

Concen: 2.00 ppbv

RT: 17.34 min Scan# 5054

Delta R.T. -0.00 min

Lab File: VL031416.D

Acq: 22 Jan 2018 13:55

Instrument :

MSVOA_L

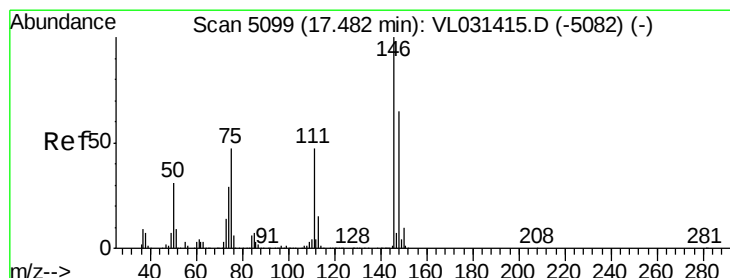
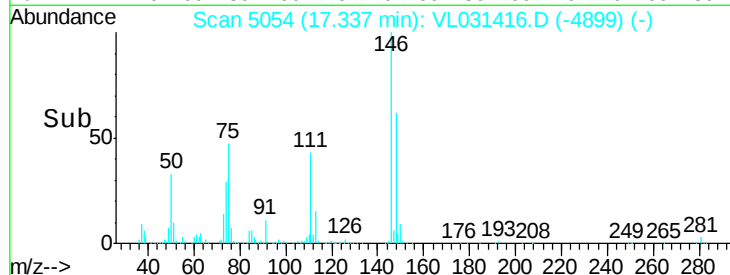
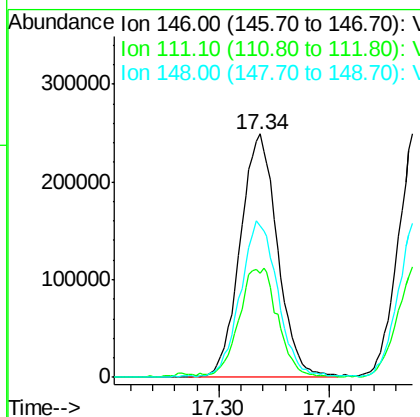
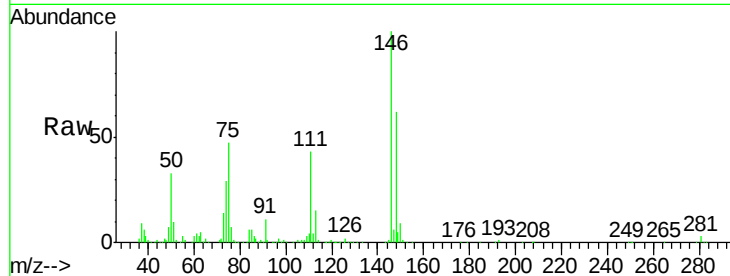
ClientSampleId :

VSTDIC002

Tot Ion:	146	Resp:	577017
Ion Ratio	Lower	Upper	
146	100		
111	48.7	24.2	72.6
148	65.5	32.1	96.3

Manual Integrations
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1/24/2018 5:10:10 PM



#76

1,4-Dichlorobenzene

Concen: 1.96 ppbv

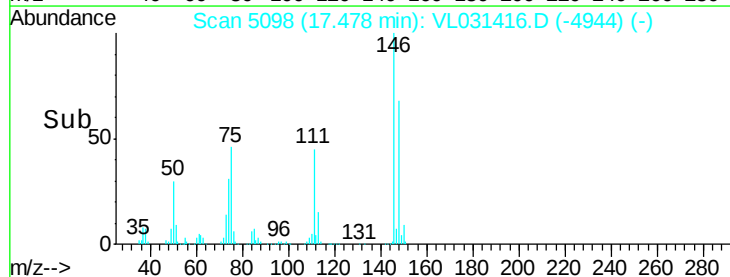
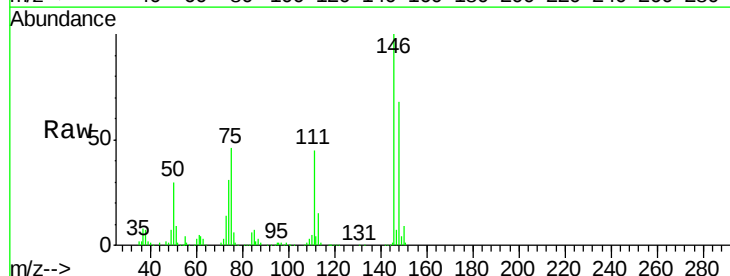
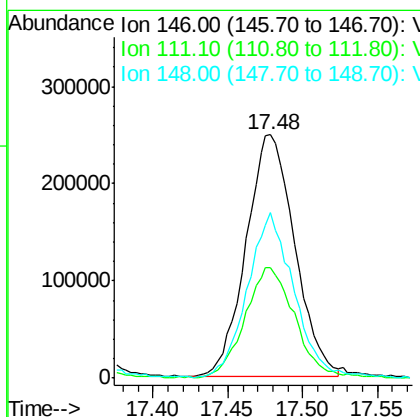
RT: 17.48 min Scan# 5098

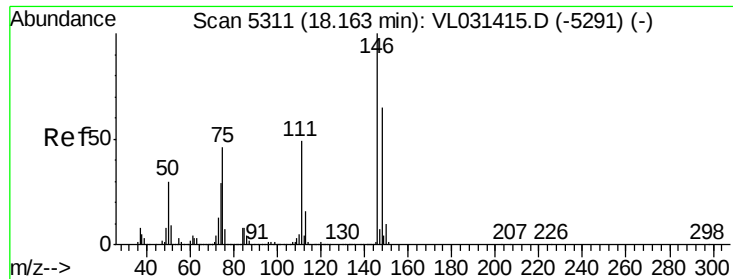
Delta R.T. -0.01 min

Lab File: VL031416.D

Acq: 22 Jan 2018 13:55

Tgt Ion:	146	Resp:	561574
Ion Ratio	Lower	Upper	
146	100		
111	47.8	23.3	69.9
148	65.9	32.4	97.2





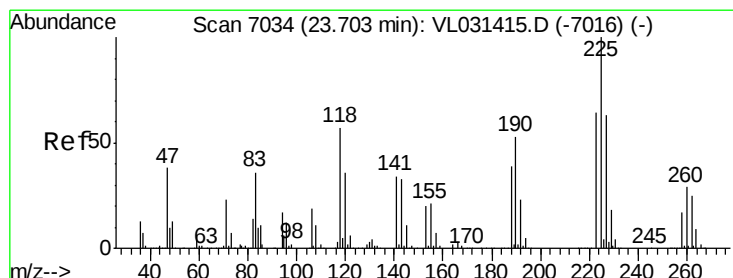
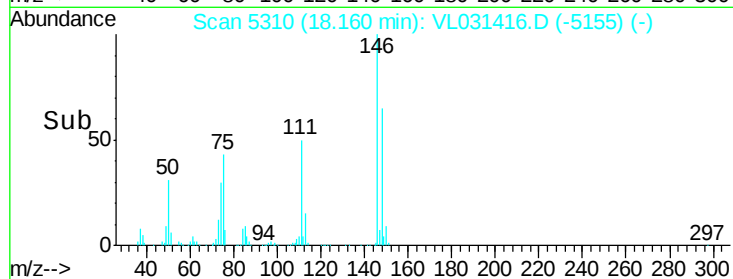
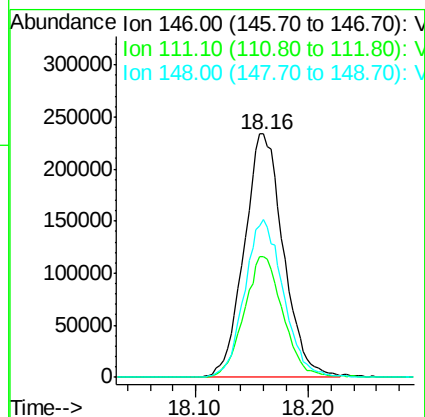
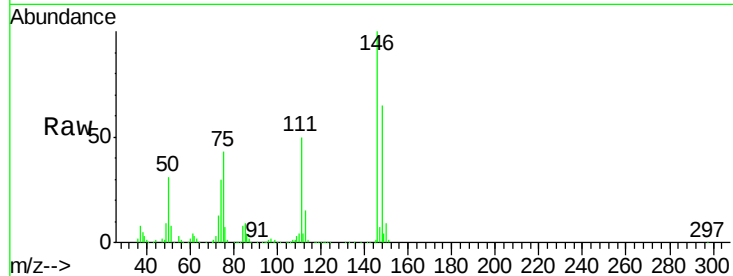
#77
 1,2-Dichlorobenzene
 Concen: 1.97 ppbv
 RT: 18.16 min Scan# 5310
 Delta R.T. -0.00 min
 Lab File: VL031416.D
 Acq: 22 Jan 2018 13:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.5	24.6	74.0
148	64.6	32.3	96.8

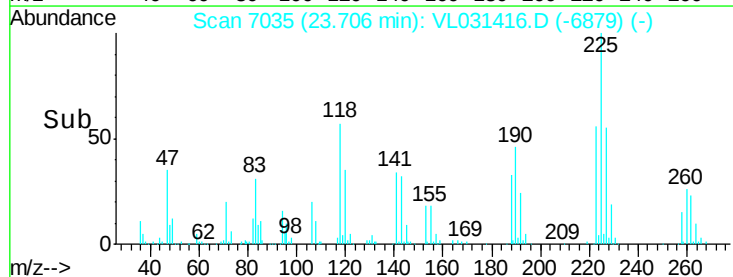
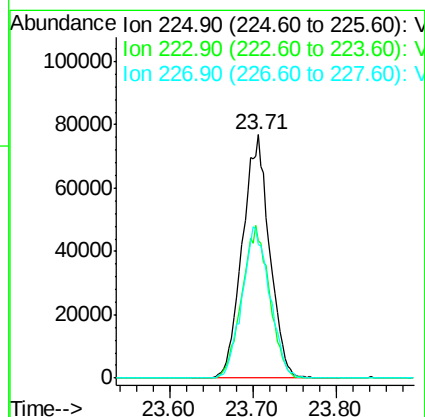
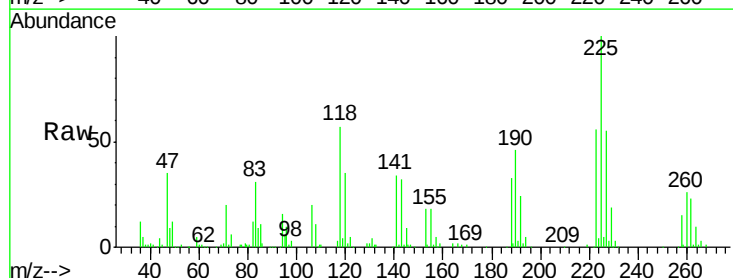
Manual Integrations
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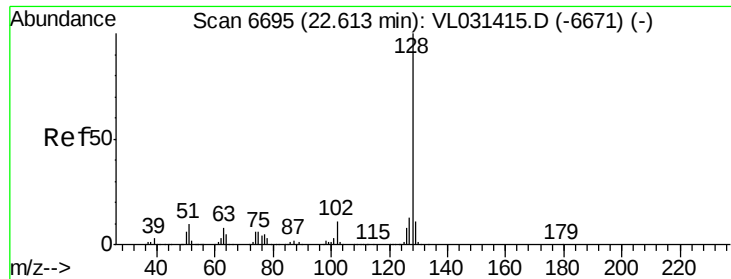
MMDadoda
 1/24/2018 5:10:10 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 1.90 ppbv m
 RT: 23.71 min Scan# 7035
 Delta R.T. 0.00 min
 Lab File: VL031416.D
 Acq: 22 Jan 2018 13:55

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.5	51.3	76.9
227	63.2	50.7	76.1





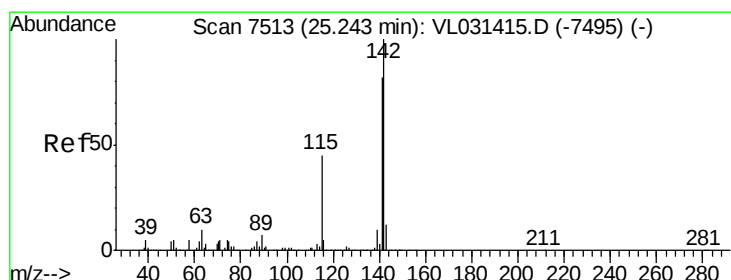
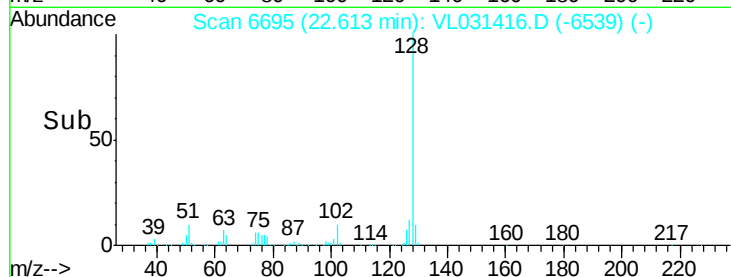
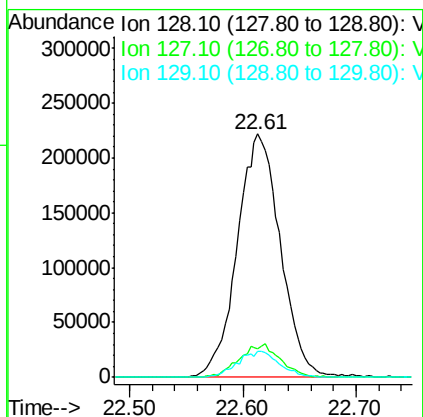
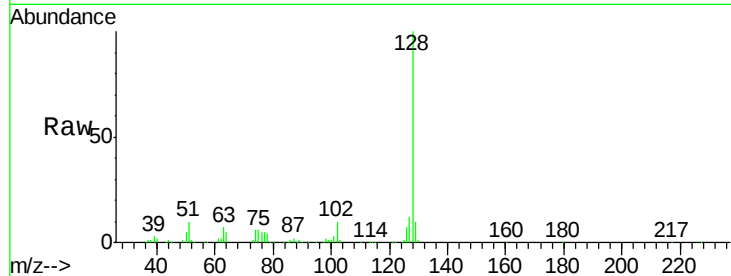
#79
Naphthalene
Concen: 2.68 ppbv
RT: 22.61 min Scan# 6695
Delta R.T. 0.00 min
Lab File: VL031416.D
Acq: 22 Jan 2018 13:55

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
128	100		
127	11.5	10.6	16.0
129	10.4	9.2	13.8

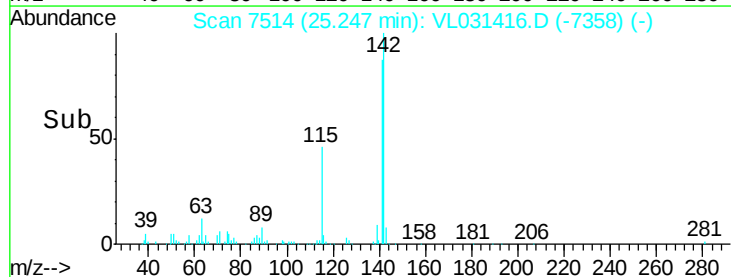
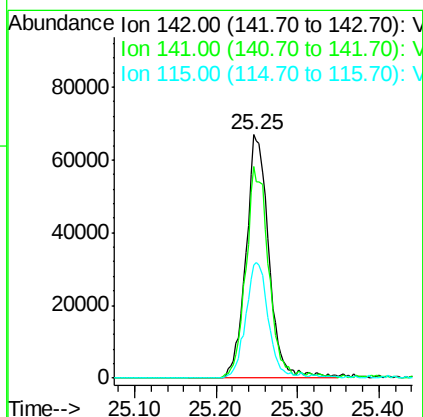
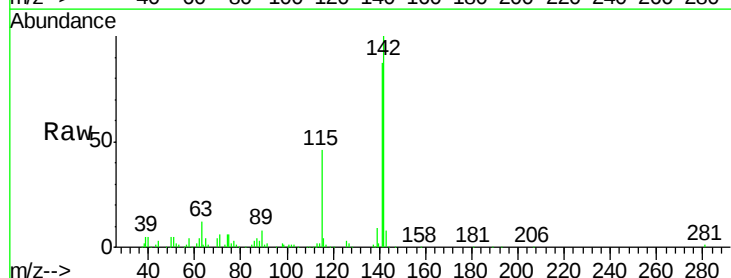
Manual Integrations
APPROVED

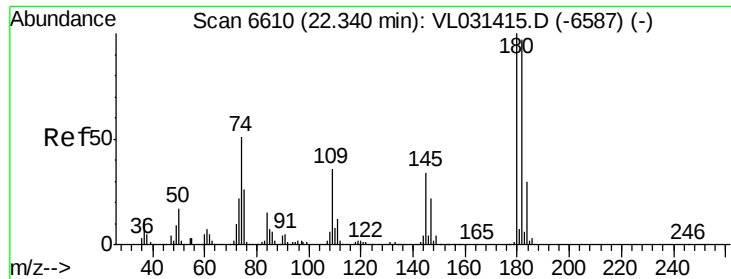
MMDadoda
1/24/2018 5:10:10 PM



#80
Naphthalene, 2-methyl-
Concen: 2.37 ppbv
RT: 25.25 min Scan# 7514
Delta R.T. 0.00 min
Lab File: VL031416.D
Acq: 22 Jan 2018 13:55

Tgt Ion	Ratio	Lower	Upper
142	100		
141	86.9	68.7	103.1
115	47.5	36.3	54.5





#81
 1,2,4-Trichlorobenzene
 Concen: 2.41 ppbv
 RT: 22.34 min Scan# 6609
 Delta R.T. -0.00 min
 Lab File: VL031416.D
 Acq: 22 Jan 2018 13:55

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.4	76.2	114.4
184	29.7	24.2	36.4

Manual Integrations
 APPROVED

MMDadoda
 1/24/2018 5:10:10 PM

