

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL050318\
 Data File : VL031960.D
 Acq On : 3 May 2018 11:24
 Operator : SY/AP
 Sample : VSTDICCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Manual Integrations
 APPROVED

MMDadoda
 5/4/2018 5:00:54 PM

Quant Time: May 03 12:10:38 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May 03 12:10:38 2018
 QLast Update : Thu May 03 12:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.88	49	1281463	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.42	114	2569488	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.39	117	2659839m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.72	95	1998659	9.35	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.16	85	1548545	5.86	ppbv	98
3) Chlorodifluoromethane	3.10	51	1093355	7.34	ppbv	96
4) Chloromethane	3.25	50	617377	8.11	ppbv	97
5) Vinyl Chloride	3.38	62	634883	7.41	ppbv	99
6) Bromomethane	3.60	94	440363	7.82	ppbv	98
7) Chloroethane	3.69	64	252675	7.40	ppbv #	86
8) Dichlorotetrafluoroethane	3.31	85	1548504	7.14	ppbv	97
9) Propene	3.12	41	443166	8.60	ppbv	98
10) Heptane	8.38	43	1457184	8.72	ppbv	99
11) Trichlorofluoromethane	4.10	101	1716437	6.62	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.66	101	1290784	7.67	ppbv	95
13) Ethanol	3.74	45	132473m	7.57	ppbv	
14) Bromoethene	3.88	108	496003	7.81	ppbv	99
15) Acetone	4.00	43	1375464	6.97	ppbv	99
16) 1,3-Butadiene	3.45	39	596319	8.17	ppbv	96
17) tert-Butyl alcohol	4.46	59	715602	8.78	ppbv	99
18) 1,1-Dichloroethene	4.46	96	563001	7.78	ppbv	92
19) Isopropyl Alcohol	4.12	45	857161	7.78	ppbv	99
20) Methylene Chloride	4.51	84	548423	7.63	ppbv	95
21) Allyl Chloride	4.59	41	998726	8.86	ppbv	97
22) trans-1,2-Dichloroethene	5.08	96	644697	8.60	ppbv	97
23) Vinyl Acetate	5.27	43	2046442	10.23	ppbv	99
24) 1,1-Dichloroethane	5.21	63	1737935	8.72	ppbv	99
25) Ethyl Acetate	5.89	43	2931101	9.53	ppbv	100
26) Hexane	5.90	57	1366458	9.53	ppbv	99
27) Carbon Disulfide	4.73	76	1667134	8.95	ppbv	99
28) Methyl tert-Butyl Ether	5.23	73	1764426	10.00	ppbv	100
29) Chloroform	5.97	83	2088626	8.59	ppbv	99
30) Cyclohexane	7.38	84	913455	8.92	ppbv	99
31) cis-1,2-Dichloroethene	5.76	61	1289561	9.93	ppbv	93
32) 1,1,1-Trichloroethane	6.75	97	1819873	7.69	ppbv	98
34) 2-Butanone	5.44	43	1978095	11.10	ppbv	99
35) Carbon Tetrachloride	7.27	117	1843240	8.26	ppbv	99
36) Benzene	7.14	78	2278880	9.86	ppbv	99
37) 1,2-Dichloroethane	6.54	62	1743336	10.14	ppbv	98
38) Trichloroethene	8.10	130	893877	9.53	ppbv	94
39) 1,2-Dichloropropane	7.87	63	807286	9.40	ppbv	96
40) 1,4-Dioxane	8.09	88	362857	10.41	ppbv	91
41) Tetrahydrofuran	6.27	42	1013127	12.28	ppbv	99
42) Bromodichloromethane	8.05	83	1864491	9.06	ppbv	99
43) Methyl Methacrylate	8.27	69	831318	10.22	ppbv	98

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Quant Time: May 03 12:10:38 2018
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 03 2018
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.13	57	3710465	9.32	ppbv	99
45) t-1,3-Dichloropropene	9.56	75	1189913	11.28	ppbv	98
46) cis-1,3-Dichloropropene	8.98	75	1465298	10.87	ppbv	96
47) 1,1,2-Trichloroethane	9.76	97	947222	9.28	ppbv	99
48) Dibromochloromethane	10.59	129	1608674	9.75	ppbv	100
49) Bromoform	13.35	173	1268344	9.98	ppbv	100
50) 4-Methyl-2-Pentanone	9.01	43	2012647	9.87	ppbv	100
51) 2-Hexanone	10.41	43	1916368	10.75	ppbv #	100
52) Tetrachloroethene	11.52	164	874648	9.71	ppbv	98
53) Toluene	10.09	91	2701446	10.48	ppbv	100
54) 1,2-Dibromoethane	10.91	107	1478890	9.98	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.43	131	1103621	8.82	ppbv #	62
57) Chlorobenzene	12.45	112	2029767	9.00	ppbv	97
58) Ethyl Benzene	13.01	91	3735077	10.11	ppbv	99
59) m/p-Xylene	13.30	91	5979689m	18.64	ppbv	
60) o-Xylene	14.00	91	3036769	9.47	ppbv	99
61) Styrene	13.83	104	750863	12.30	ppbv	99
62) Isopropylbenzene	14.97	105	3853132	9.36	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.98	83	1987436	8.06	ppbv	99
64) n-propylbenzene	15.87	120	966654	9.66	ppbv	98
65) tert-Butylbenzene	17.06	119	3376022	9.53	ppbv	99
66) Benzyl Chloride	17.30	91	329688	10.33	ppbv	98
67) sec-Butylbenzene	17.61	105	4754400	9.32	ppbv	100
69) p-Isopropyltoluene	17.96	119	3921410	9.91	ppbv	98
70) n-Butylbenzene	18.86	91	4002929	9.72	ppbv	99
71) 2-Chlorotoluene	15.77	91	2901540	9.75	ppbv	99
72) 4-Ethyltoluene	16.15	105	3214010	9.81	ppbv	100
73) 1,3,5-Trimethylbenzene	16.30	105	2913285	9.71	ppbv	99
74) 1,2,4-Trimethylbenzene	17.07	105	3030769	9.05	ppbv	97
75) 1,3-Dichlorobenzene	17.32	146	1855055	9.03	ppbv	99
76) 1,4-Dichlorobenzene	17.46	146	1887036	9.47	ppbv	99
77) 1,2-Dichlorobenzene	18.14	146	1864848	9.22	ppbv	100
78) Hexachloro-1,3-Butadiene	23.68	225	1085738	13.98	ppbv	99
79) Naphthalene	22.58	128	2347093	12.46	ppbv	99
80) Naphthalene, 2-methyl-	25.22	142	856165	23.27	ppbv	98
81) 1,2,4-Trichlorobenzene	22.31	180	1219595	11.67	ppbv	100

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

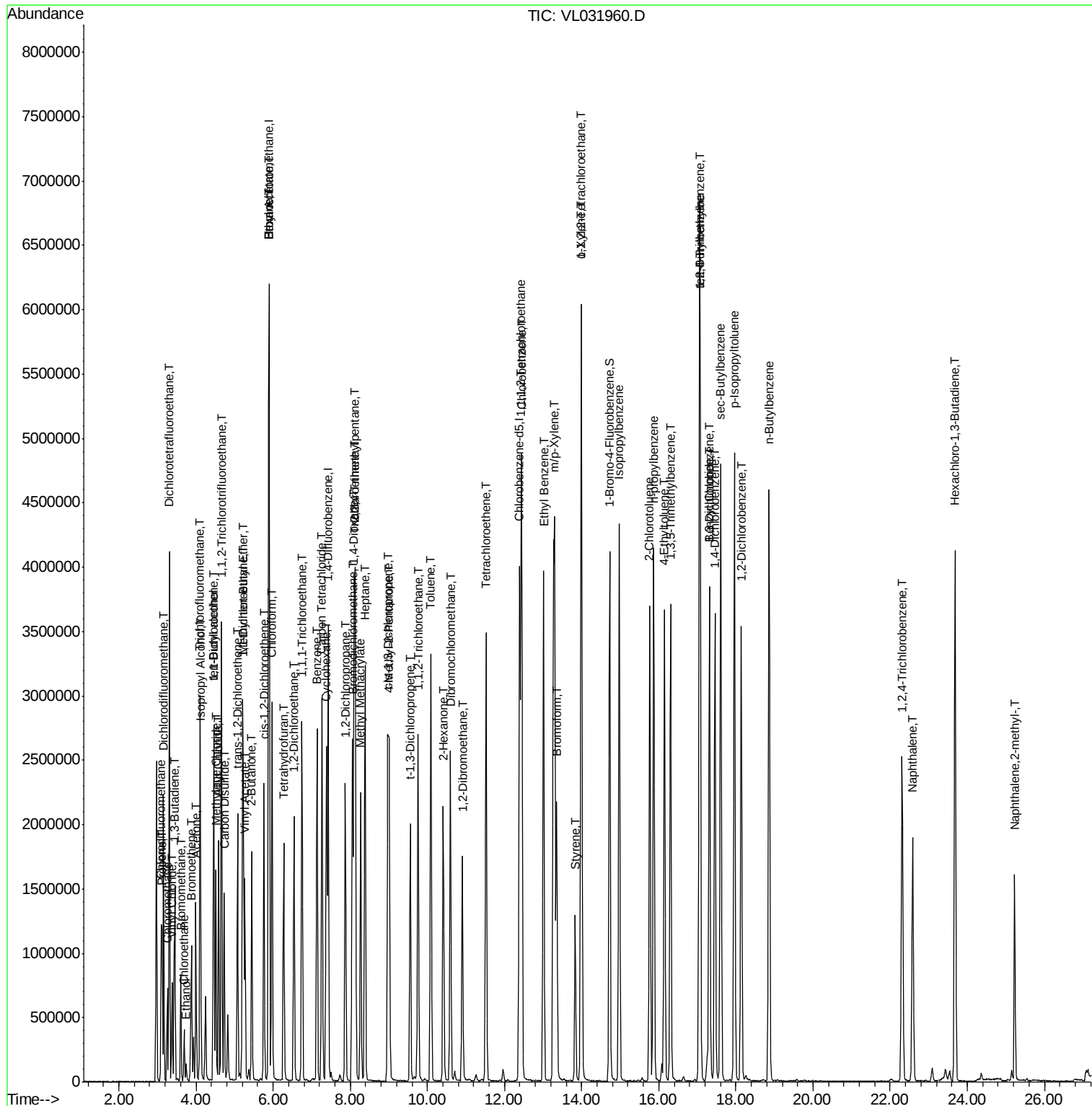
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Data Path : W:\HPCHEM1\MSVOA L\DATA\VL050318\  
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Misc      : 400ml/MSVOA L  
ALS Vial  : 1 Sample Multiplier: 1
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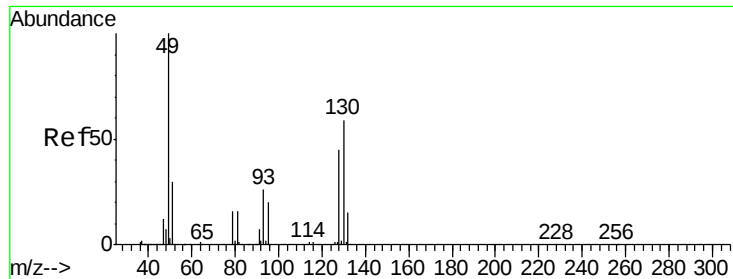
Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Manual Integrations APPROVED

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Quant Time: May 03 12:10:38 2018
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL050318AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May
QLast Update : Thu May 03 12:00:23 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.88 min Scan# 1492

Delta R.T. -0.01 min

Lab File: VL031960.D

Acq: 3 May 2018 11:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 49 Resp: 1281463

Ion Ratio Lower Upper

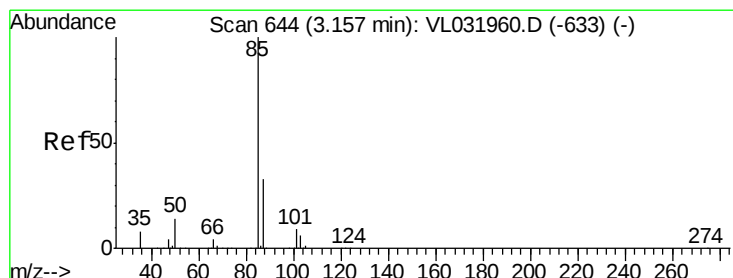
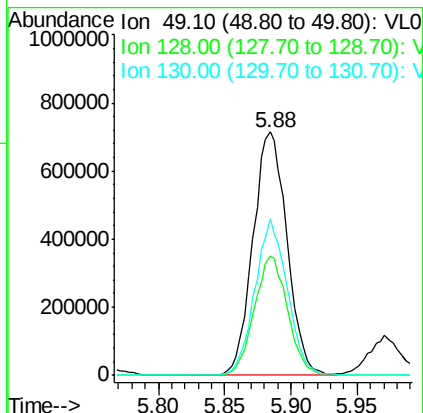
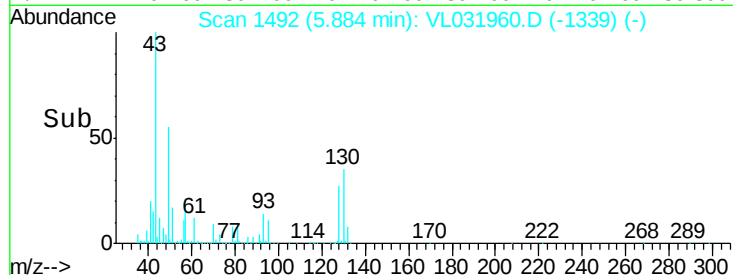
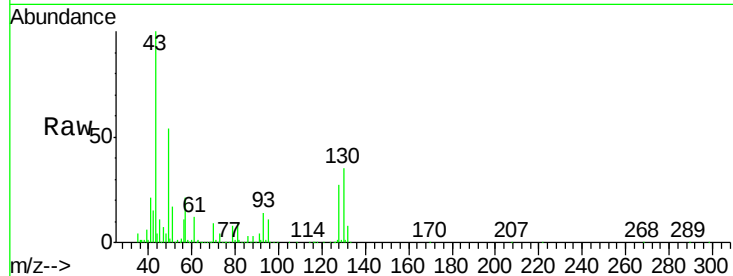
49 100

128 48.2 23.9 71.7

130 61.4 30.9 92.7

Manual Integrations
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5/4/2018 5:00:54 PM



#2

Dichlorodifluoromethane

Concen: 5.86 ppbv

RT: 3.16 min Scan# 644

Delta R.T. -0.01 min

Lab File: VL031960.D

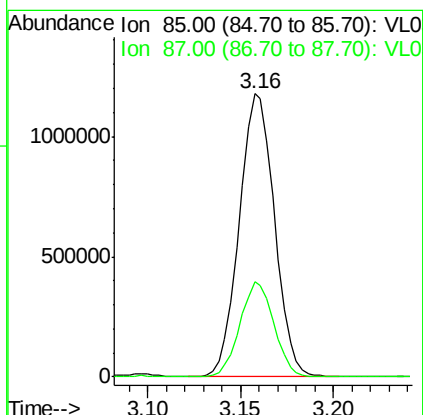
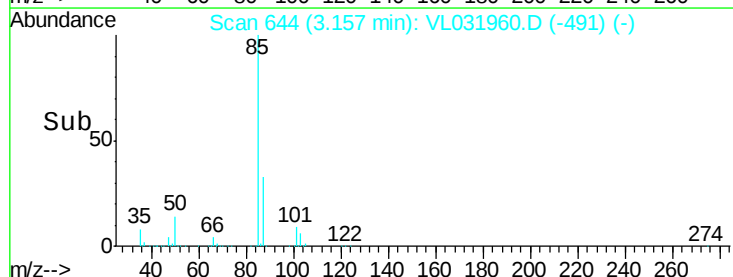
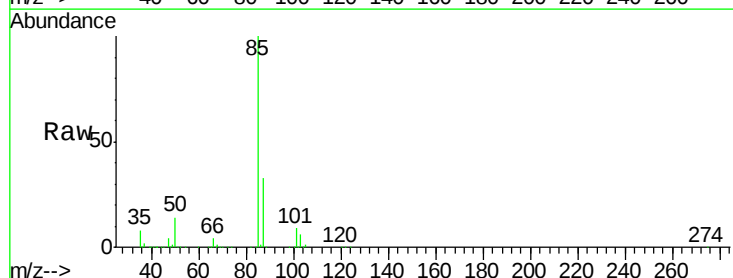
Acq: 3 May 2018 11:24

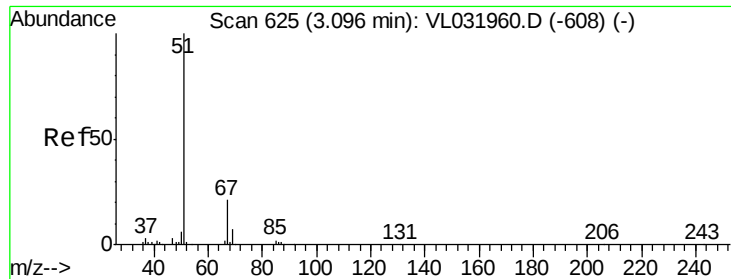
Tgt Ion: 85 Resp: 1548545

Ion Ratio Lower Upper

85 100

87 33.5 25.9 38.9





#3

Chlorodifluoromethane

Concen: 7.34 ppbv

RT: 3.10 min Scan# 625

Delta R.T. -0.00 min

Lab File: VL031960.D

Acq: 3 May 2018 11:24

Tot Ion: 51 Resp: 1093355

Ion Ratio Lower Upper

51 100

67 19.9 17.5 26.3

Instrument :

MSVOA_L

ClientSampleId :

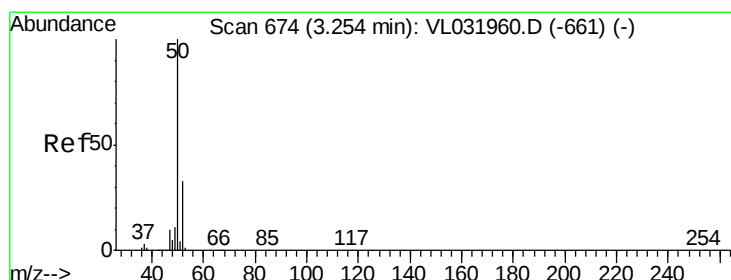
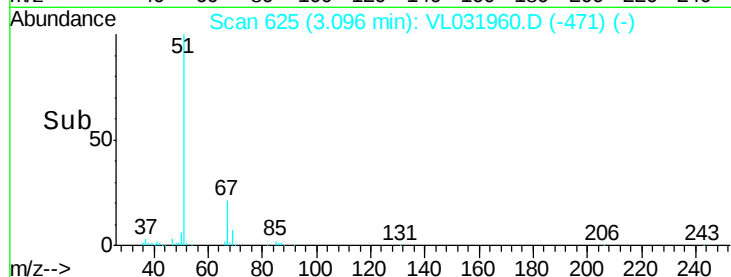
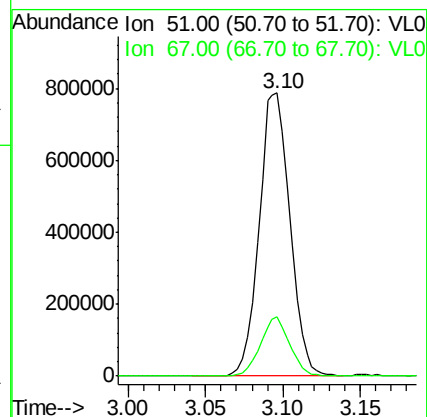
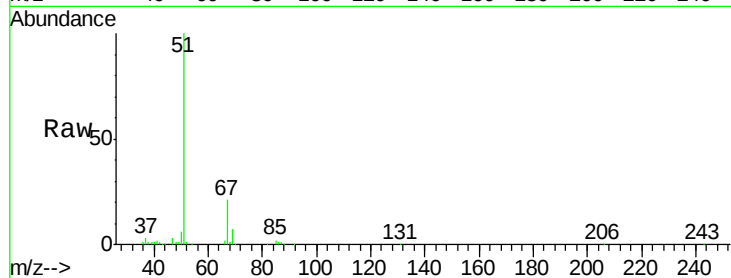
VSTDICCC010

Manual Integrations

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#4

Chloromethane

Concen: 8.11 ppbv

RT: 3.25 min Scan# 674

Delta R.T. -0.01 min

Lab File: VL031960.D

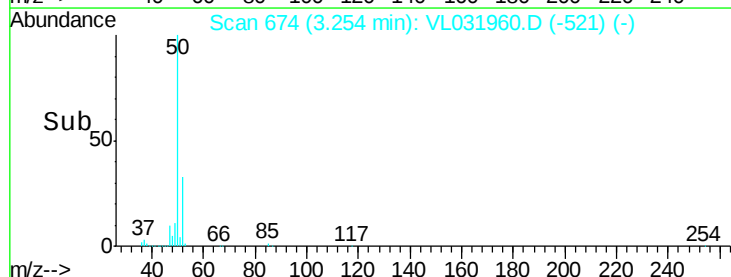
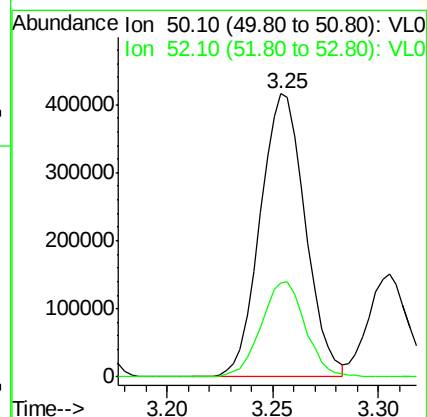
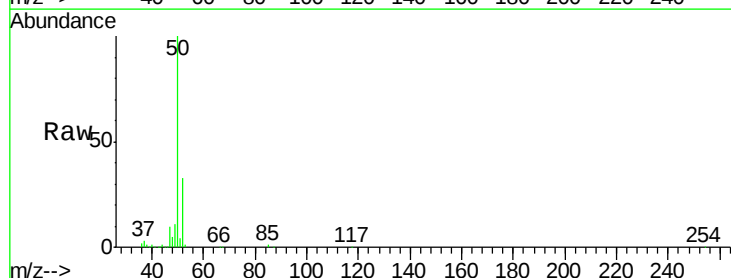
Acq: 3 May 2018 11:24

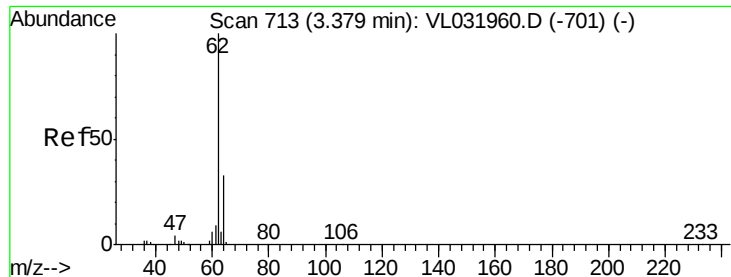
Tgt Ion: 50 Resp: 617377

Ion Ratio Lower Upper

50 100

52 33.2 28.1 42.1





#5

Vinyl Chloride

Concen: 7.41 ppbv

RT: 3.38 min Scan# 713

Delta R.T. -0.00 min

Lab File: VL031960.D

Acq: 3 May 2018 11:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 62 Resp: 634883

Ion Ratio Lower Upper

62 100

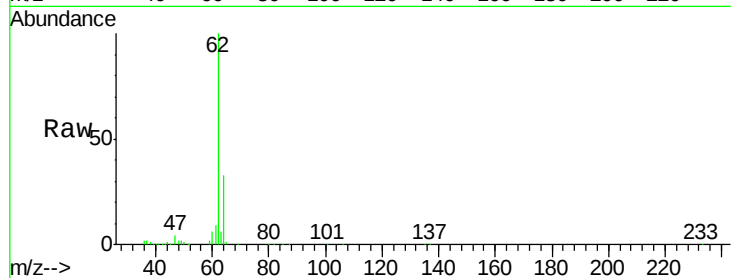
64 33.2 25.9 38.9

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.38

400000

300000

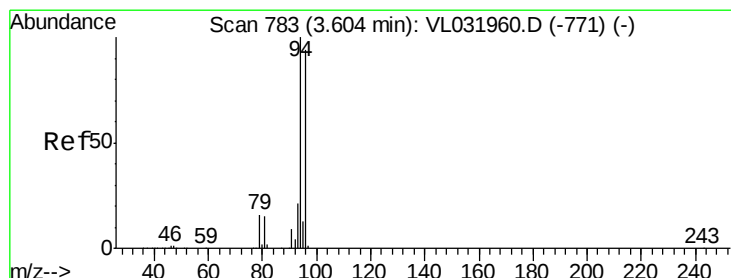
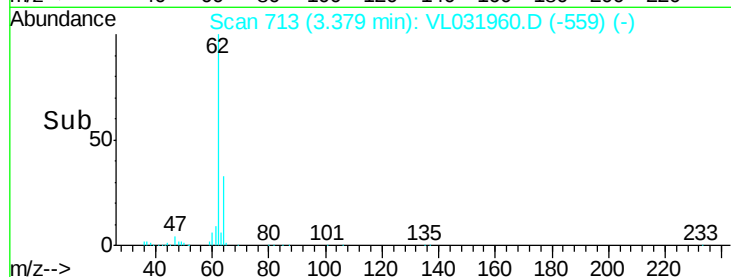
200000

100000

0

3.35 3.40 3.45

Time-->



#6

Bromomethane

Concen: 7.82 ppbv

RT: 3.60 min Scan# 783

Delta R.T. -0.01 min

Lab File: VL031960.D

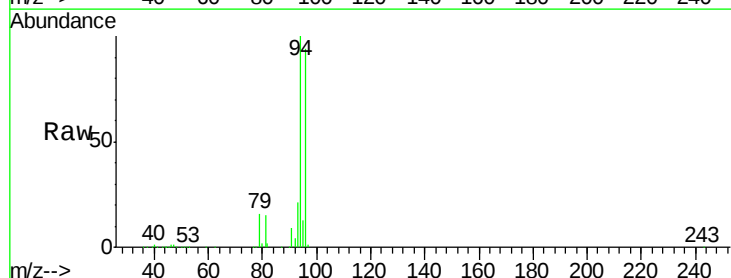
Acq: 3 May 2018 11:24

Tgt Ion: 94 Resp: 440363

Ion Ratio Lower Upper

94 100

96 94.4 73.8 110.6



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.60

300000

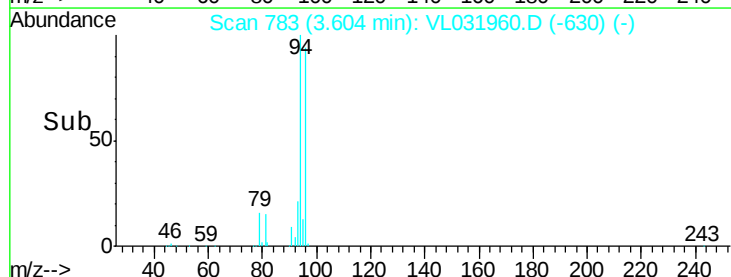
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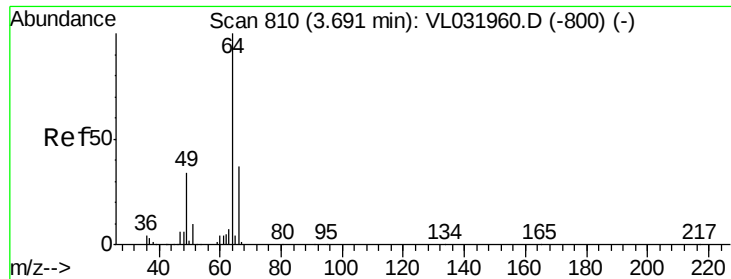
100000

0

3.55 3.60 3.65

Time-->





#7

Chloroethane

Concen: 7.40 ppbv

RT: 3.69 min Scan# 810

Delta R.T. -0.01 min

Lab File: VL031960.D

Acq: 3 May 2018 11:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 64 Resp: 252675

Ion Ratio Lower Upper

64 100

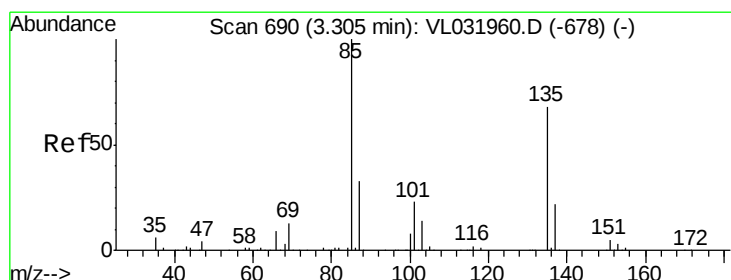
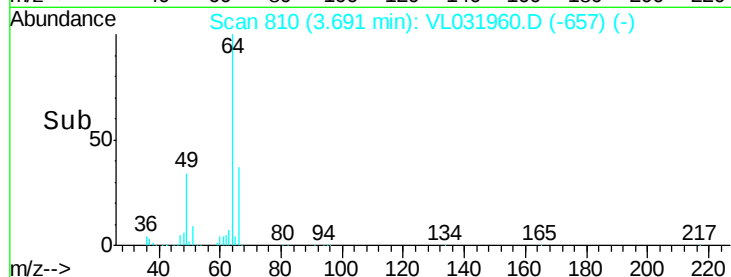
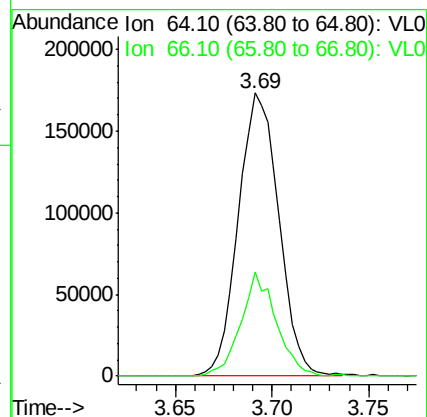
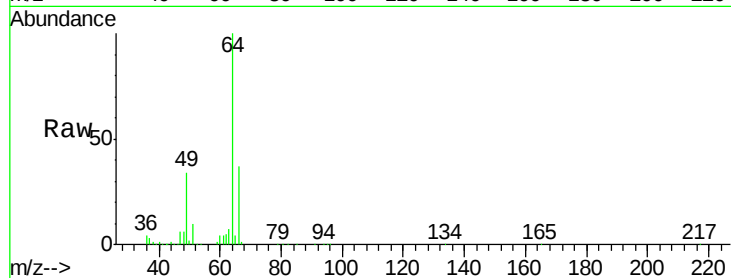
66 37.0 23.4 35.0#

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 7.14 ppbv

RT: 3.31 min Scan# 690

Delta R.T. -0.01 min

Lab File: VL031960.D

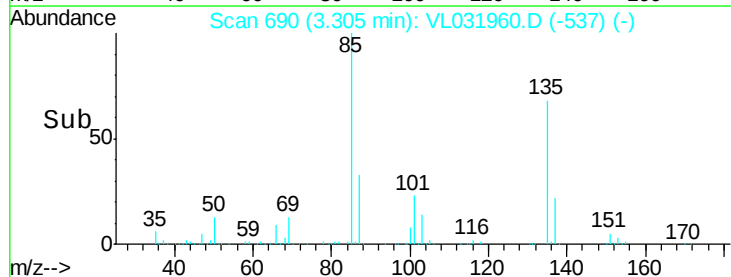
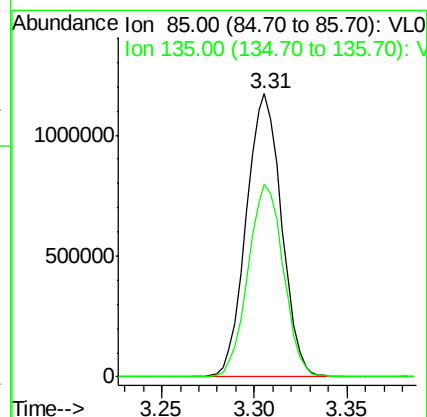
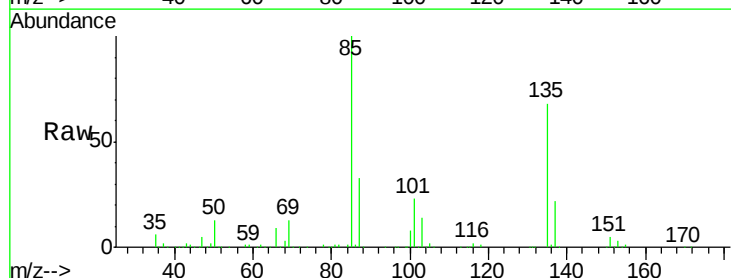
Acq: 3 May 2018 11:24

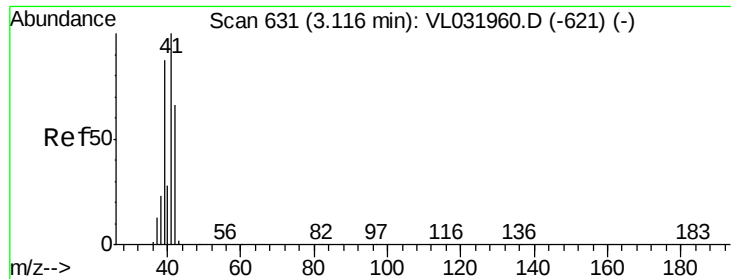
Tgt Ion: 85 Resp: 1548504

Ion Ratio Lower Upper

85 100

135 68.5 52.7 79.1





#9

Propene

Concen: 8.60 ppbv

RT: 3.12 min Scan# 631

Delta R.T. -0.01 min

Lab File: VL031960.D

Acq: 3 May 2018 11:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 41 Resp: 443166

Ion Ratio Lower Upper

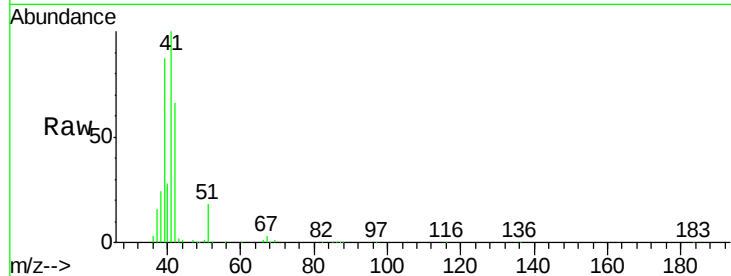
41 100

42 67.4 55.0 82.4

Manual Integrations
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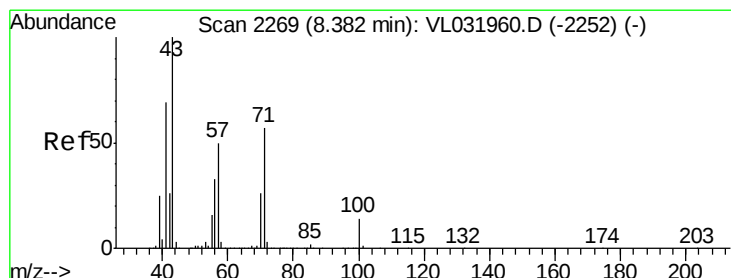
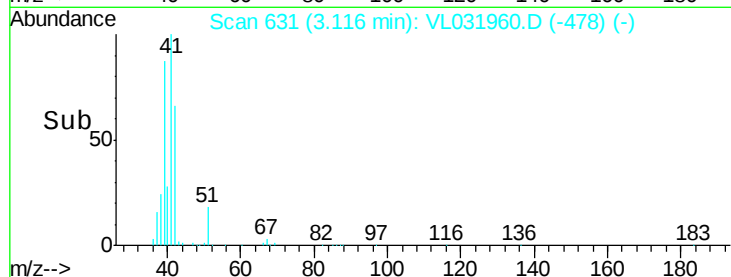
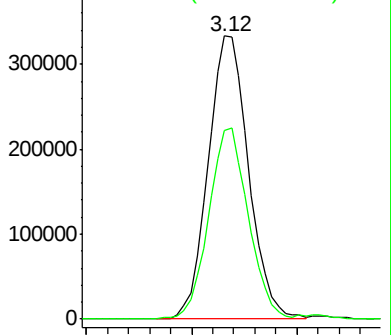
MMDadoda

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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 8.72 ppbv

RT: 8.38 min Scan# 2269

Delta R.T. -0.00 min

Lab File: VL031960.D

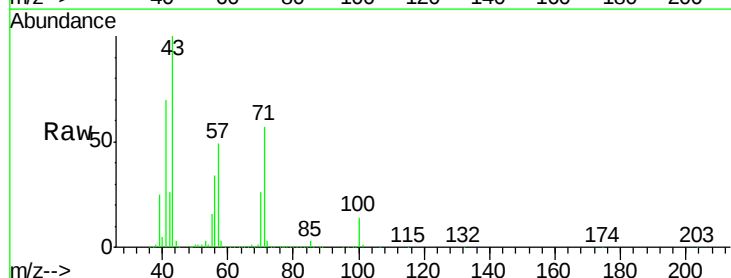
Acq: 3 May 2018 11:24

Tgt Ion: 43 Resp: 1457184

Ion Ratio Lower Upper

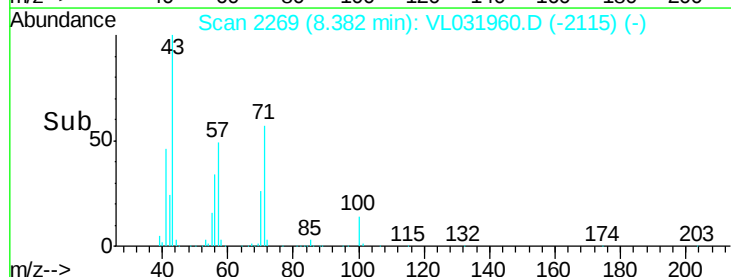
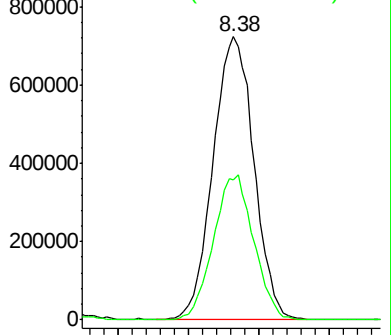
43 100

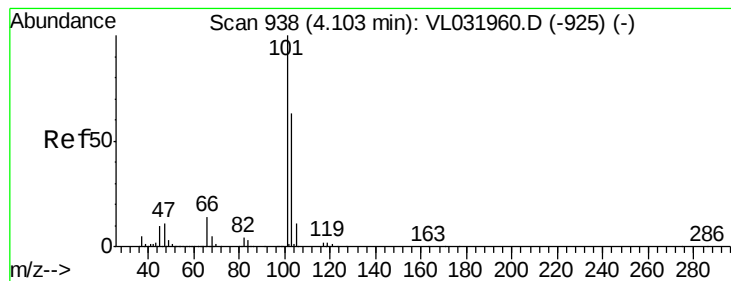
57 50.9 41.5 62.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 6.62 ppbv

RT: 4.10 min Scan# 938

Delta R.T. -0.01 min

Lab File: VL031960.D

Acq: 3 May 2018 11:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:101 Resp: 1716437

Ion Ratio Lower Upper

101 100

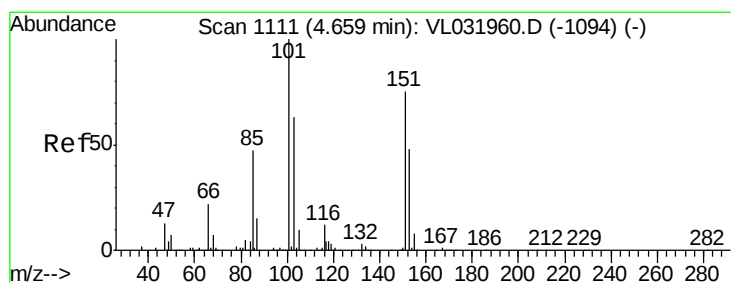
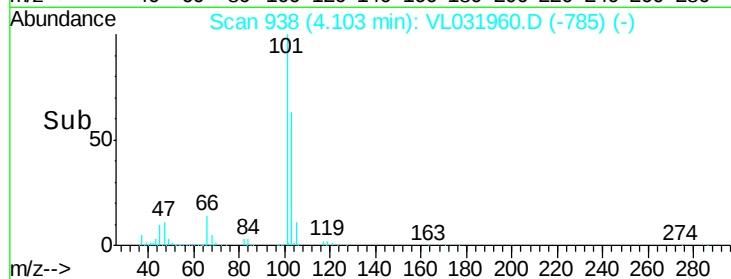
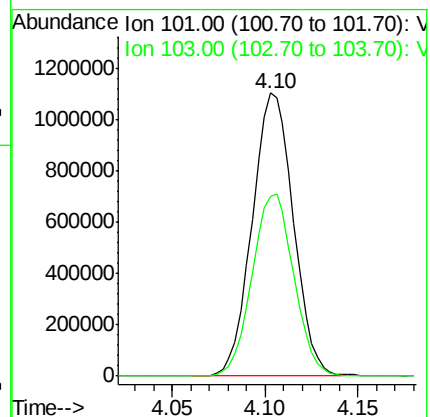
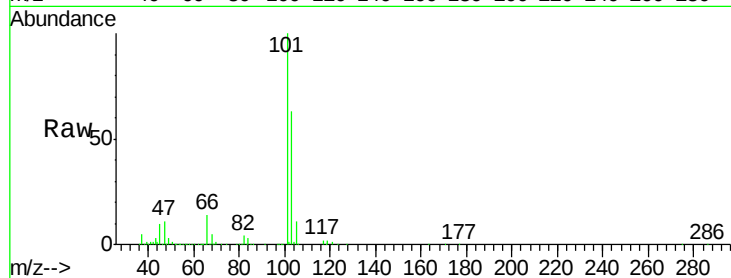
103 63.4 51.8 77.8

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 7.67 ppbv

RT: 4.66 min Scan# 1111

Delta R.T. -0.01 min

Lab File: VL031960.D

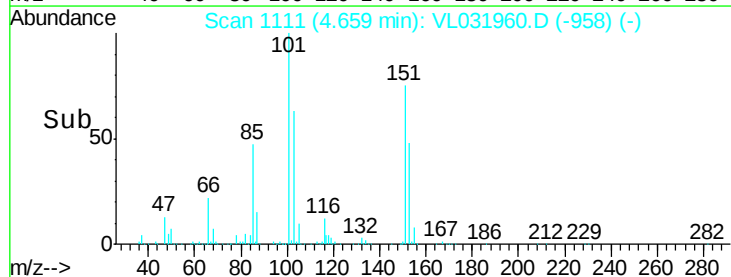
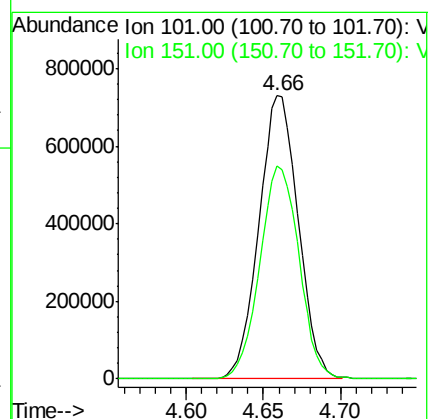
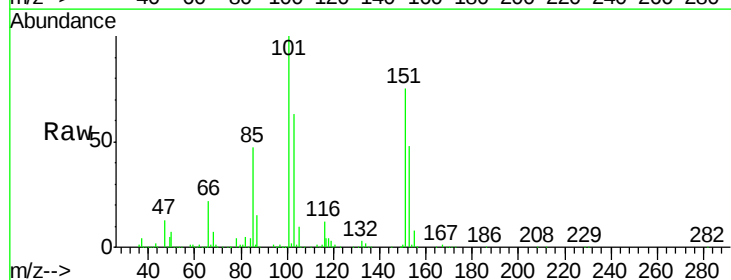
Acq: 3 May 2018 11:24

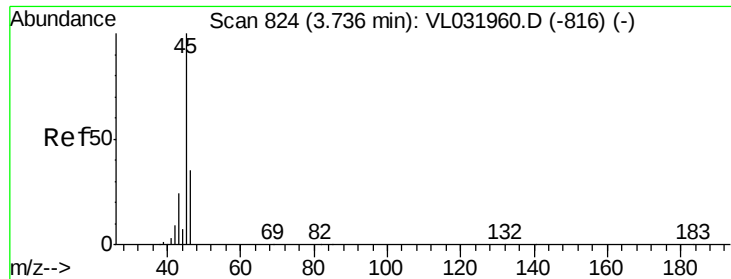
Tgt Ion:101 Resp: 1290784

Ion Ratio Lower Upper

101 100

151 75.2 57.0 85.6





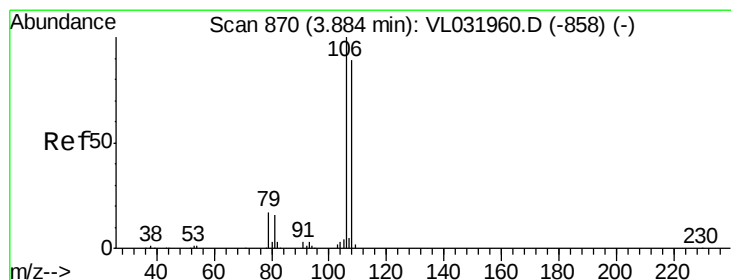
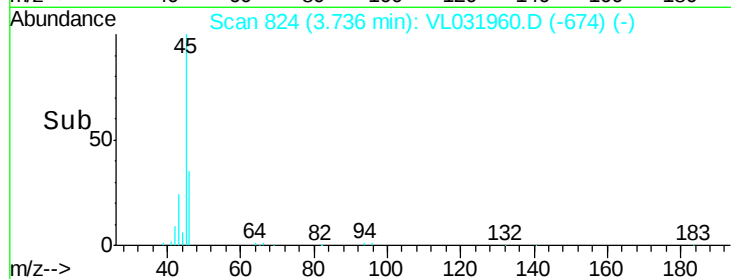
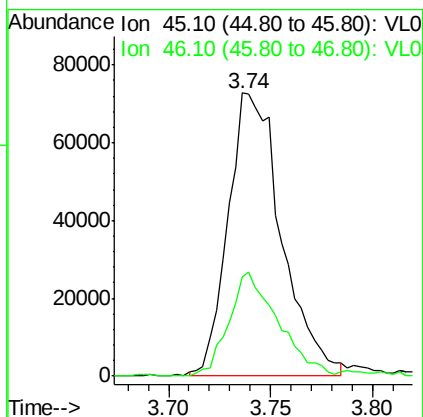
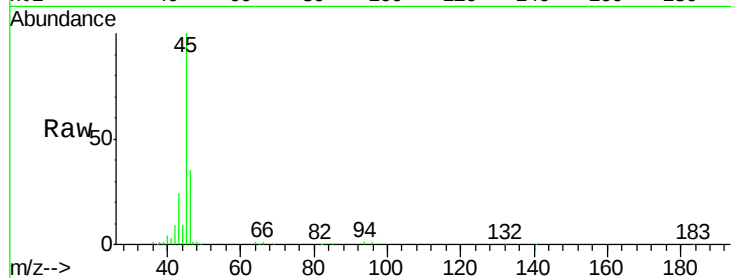
#13
Ethanol
Concen: 7.57 ppbv m
RT: 3.74 min Scan# 824
Delta R.T. -0.02 min
Lab File: VL031960.D
Acq: 3 May 2018 11:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
45	100		
46	0.0	14.6	58.6#

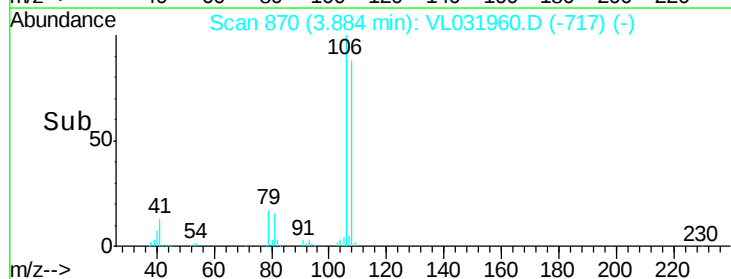
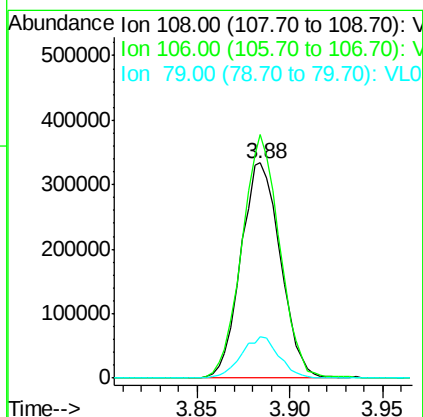
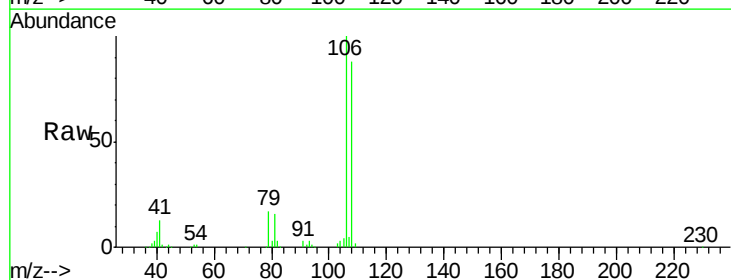
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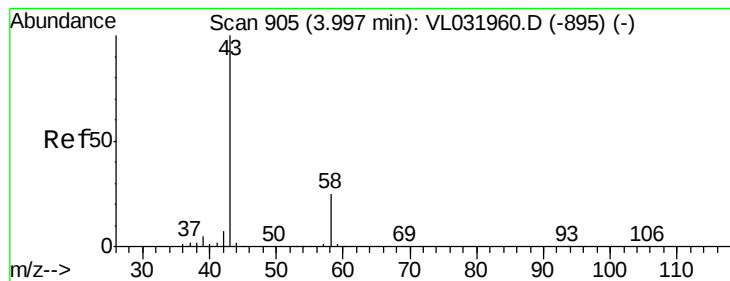
MMDadoda
5/4/2018 5:00:54 PM



#14
Bromoethene
Concen: 7.81 ppbv
RT: 3.88 min Scan# 870
Delta R.T. -0.01 min
Lab File: VL031960.D
Acq: 3 May 2018 11:24

Tgt Ion	Ratio	Lower	Upper
108	100		
106	108.5	86.6	130.0
79	18.4	15.5	23.3





#15

Acetone

Concen: 6.97 ppbv

RT: 4.00 min Scan# 905

Delta R.T. -0.01 min

Lab File: VL031960.D

Acq: 3 May 2018 11:24

Tot Ion: 43 Resp: 1375464

Ion Ratio Lower Upper

43 100

58 26.4 20.9 31.3

Instrument :

MSVOA_L

ClientSampleId :

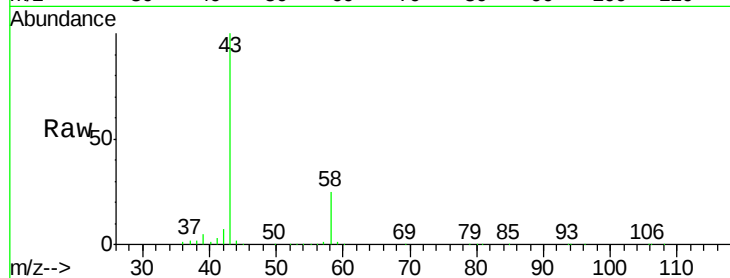
VSTDICCC010

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

1000000

800000

600000

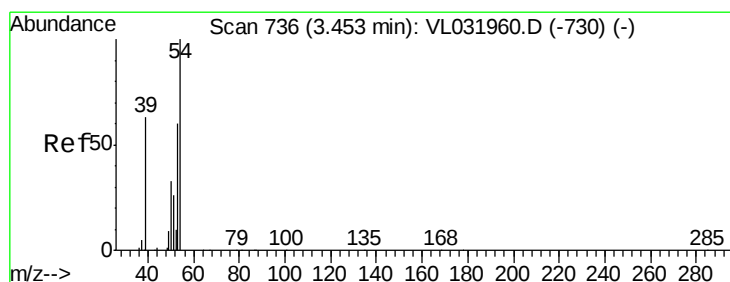
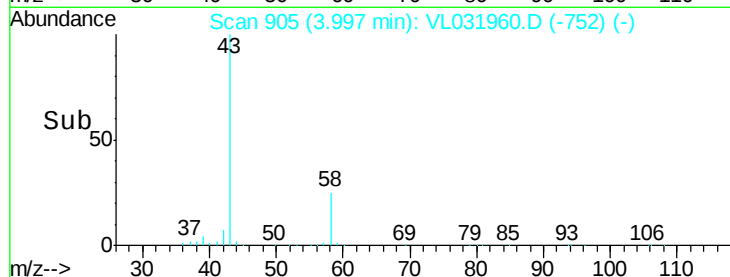
400000

200000

0

3.95 4.00 4.05

Time-->



#16

1,3-Butadiene

Concen: 8.17 ppbv

RT: 3.45 min Scan# 736

Delta R.T. -0.00 min

Lab File: VL031960.D

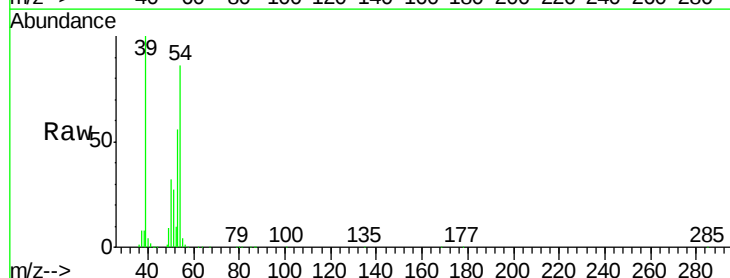
Acq: 3 May 2018 11:24

Tgt Ion: 39 Resp: 596319

Ion Ratio Lower Upper

39 100

54 82.7 63.3 94.9



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

500000

400000

300000

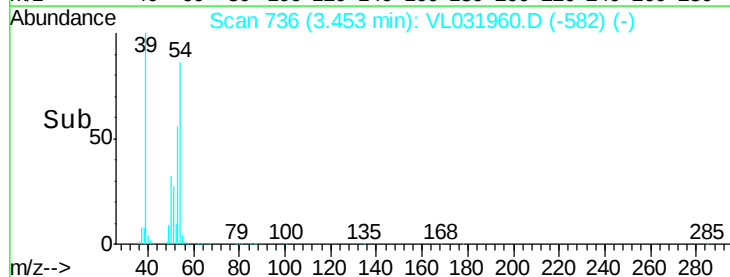
200000

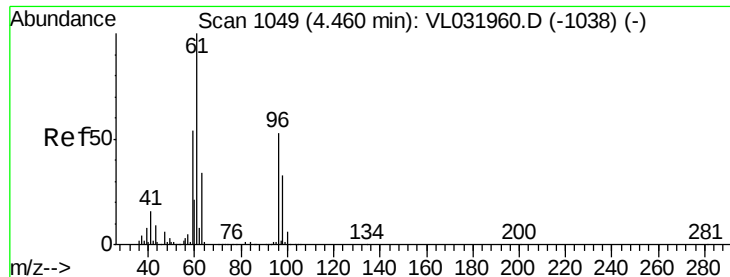
100000

0

3.42 3.44 3.46 3.48 3.50

Time-->





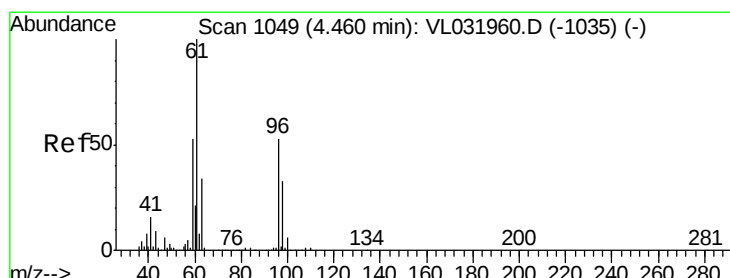
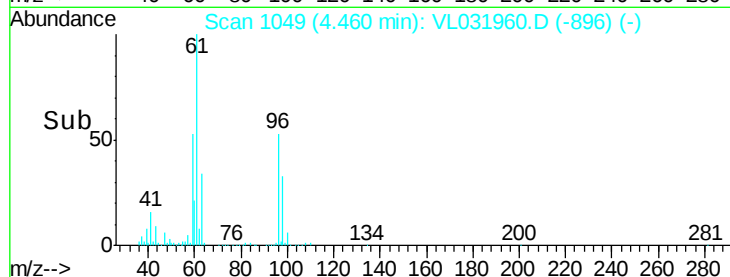
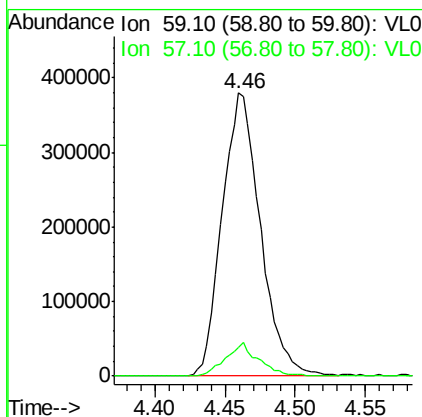
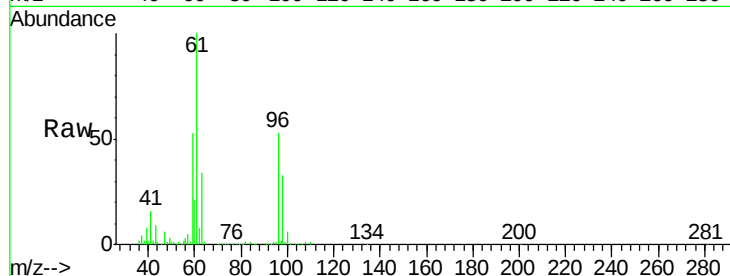
#17
tert-Butyl alcohol
Concen: 8.78 ppbv
RT: 4.46 min Scan# 1049
Delta R.T. -0.01 min
Lab File: VL031960.D
Acq: 3 May 2018 11:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 59 Resp: 715602
Ion Ratio Lower Upper
59 100
57 10.4 8.5 12.7

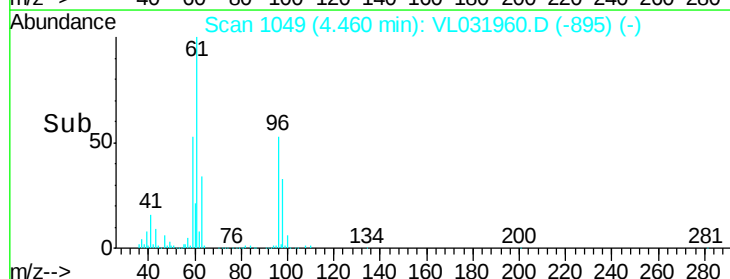
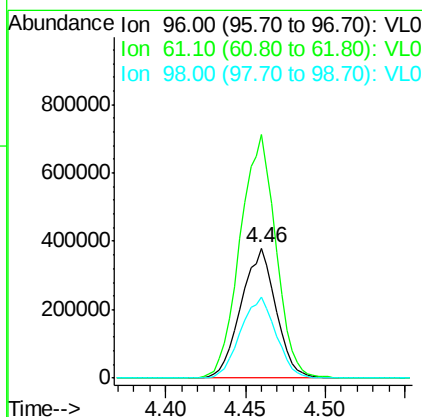
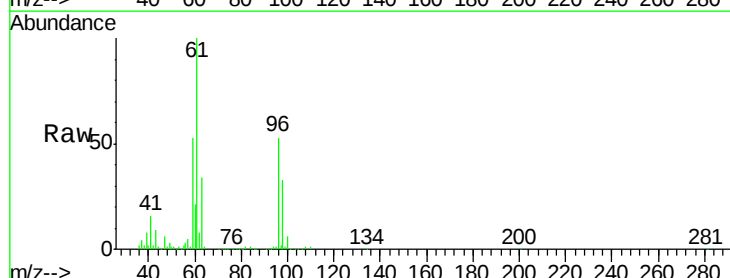
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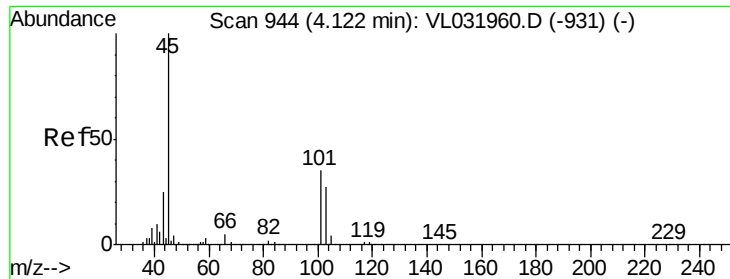
MMDadoda
5/4/2018 5:00:54 PM



#18
1,1-Dichloroethene
Concen: 7.78 ppbv
RT: 4.46 min Scan# 1049
Delta R.T. -0.00 min
Lab File: VL031960.D
Acq: 3 May 2018 11:24

Tgt Ion: 96 Resp: 563001
Ion Ratio Lower Upper
96 100
61 187.4 161.0 241.6
98 62.1 52.7 79.1





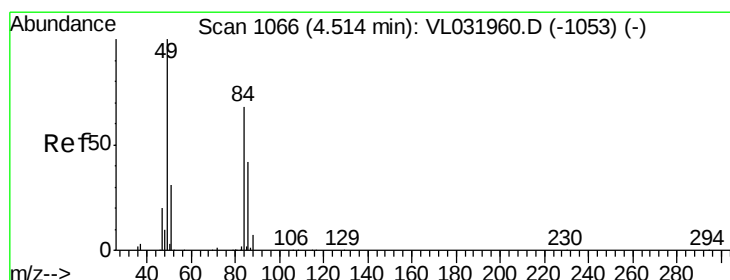
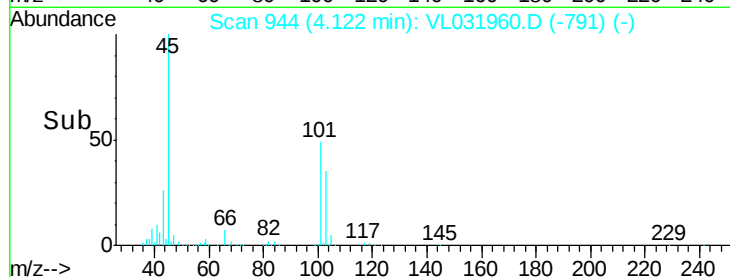
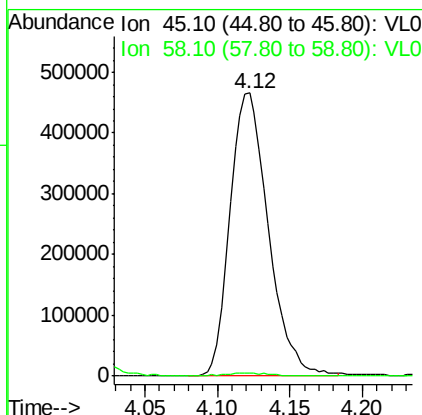
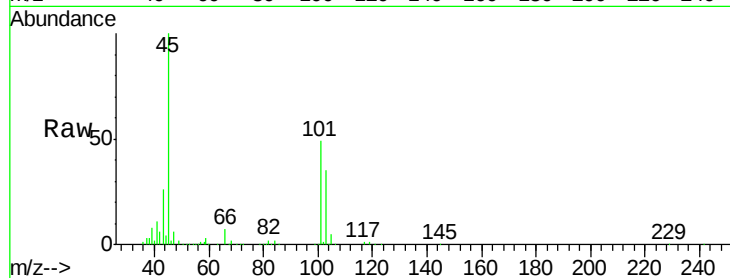
#19
Isopropyl Alcohol
Concen: 7.78 ppbv
RT: 4.12 min Scan# 944
Delta R.T. -0.01 min
Lab File: VL031960.D
Acq: 3 May 2018 11:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 45 Resp: 857161
Ion Ratio Lower Upper
45 100
58 1.8 1.7 2.5

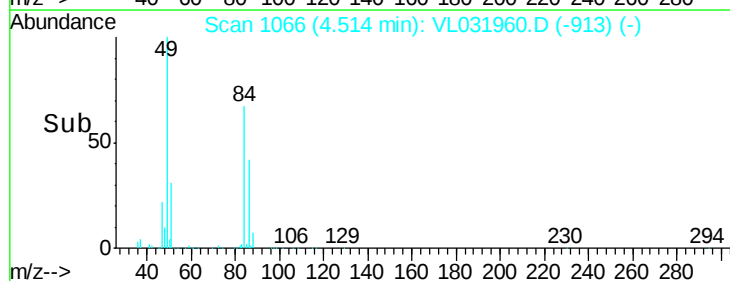
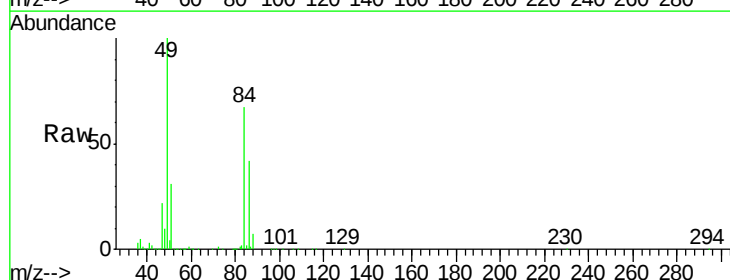
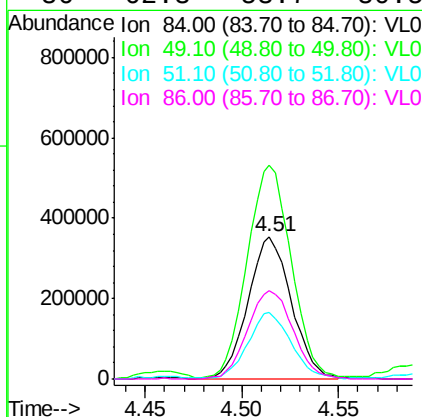
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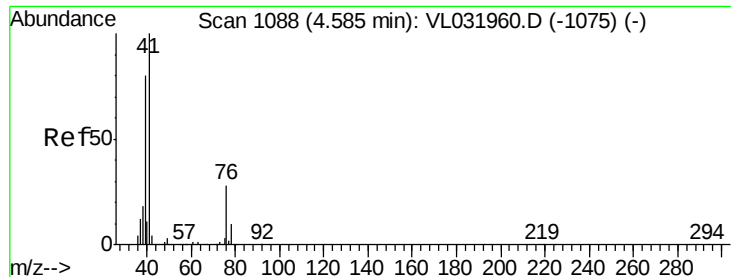
MMDadoda
5/4/2018 5:00:54 PM



#20
Methylene Chloride
Concen: 7.63 ppbv
RT: 4.51 min Scan# 1066
Delta R.T. -0.01 min
Lab File: VL031960.D
Acq: 3 May 2018 11:24

Tgt Ion: 84 Resp: 548423
Ion Ratio Lower Upper
84 100
49 148.3 125.6 188.4
51 45.7 36.4 54.6
86 62.3 53.7 80.5





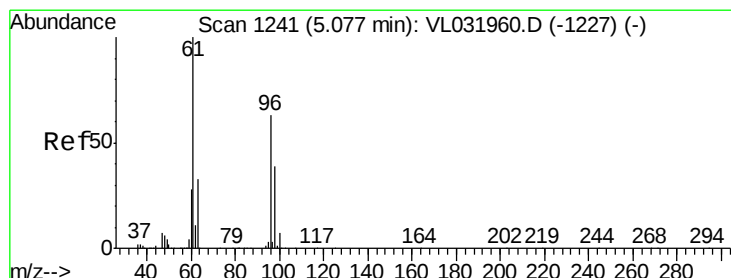
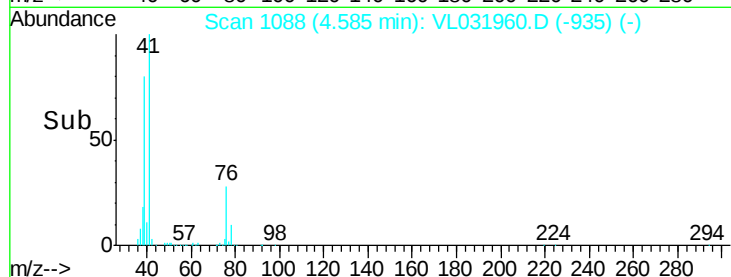
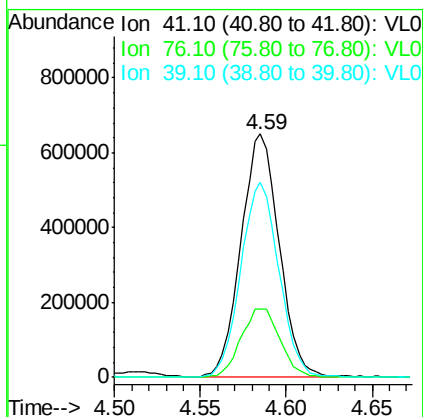
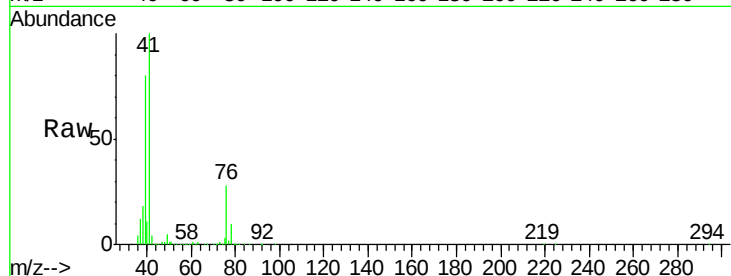
#21
Allvl Chloride
Concen: 8.86 ppbv
RT: 4.59 min Scan# 1088
Delta R.T. -0.01 min
Lab File: VL031960.D
Acq: 3 May 2018 11:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	29.2	23.4	35.2
39	80.6	67.6	101.4

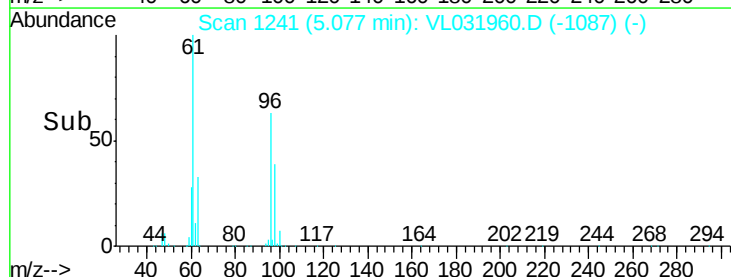
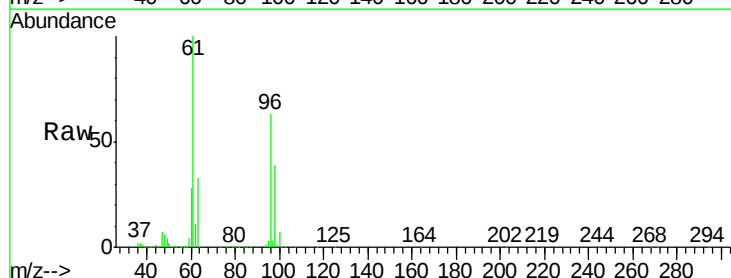
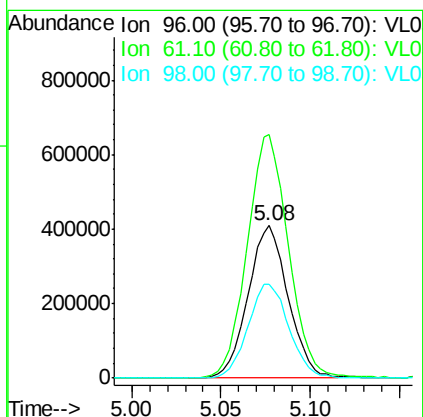
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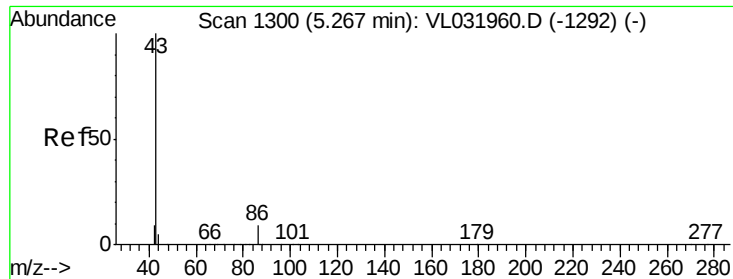
MMDadoda
5/4/2018 5:00:54 PM



#22
trans-1,2-Dichloroethene
Concen: 8.60 ppbv
RT: 5.08 min Scan# 1241
Delta R.T. -0.00 min
Lab File: VL031960.D
Acq: 3 May 2018 11:24

Tgt Ion	Ratio	Lower	Upper
96	100		
61	159.6	131.1	196.7
98	61.6	47.6	71.4





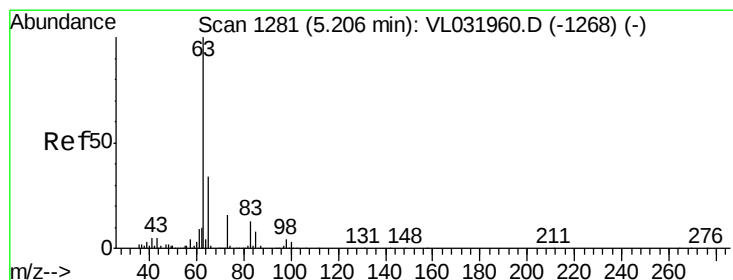
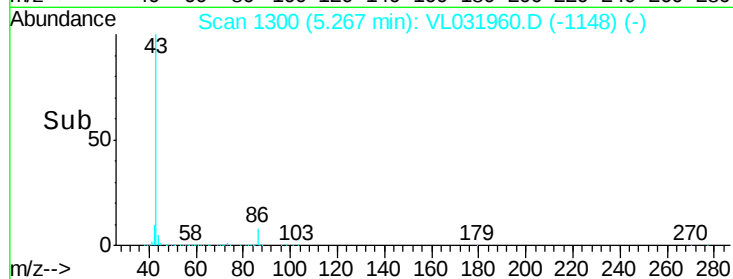
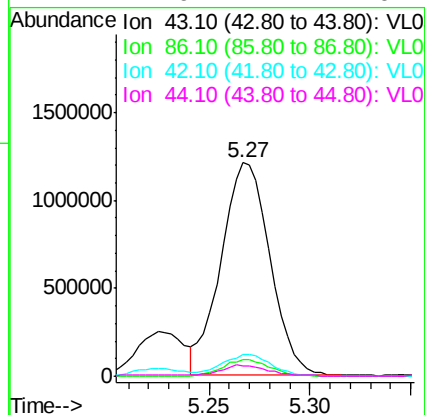
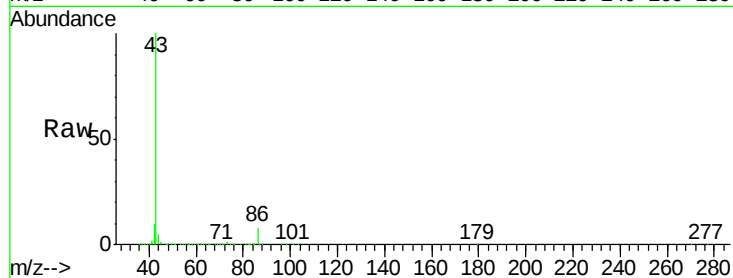
#23
 Vinyl Acetate
 Concen: 10.23 ppbv
 RT: 5.27 min Scan# 1300
 Delta R.T. -0.01 min
 Lab File: VL031960.D
 Acq: 3 May 2018 11:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:	43	Resp:	2046442
Ion	Ratio	Lower	Upper
43	100		
86	7.6	5.8	8.8
42	10.0	8.5	12.7
44	4.9	4.2	6.4

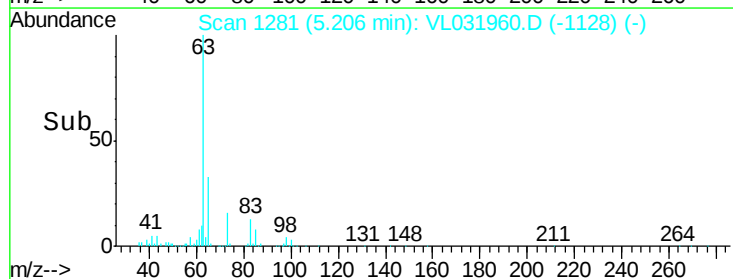
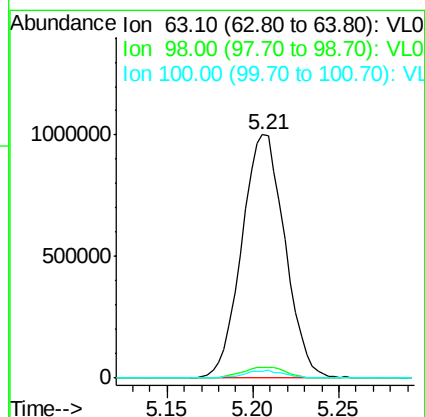
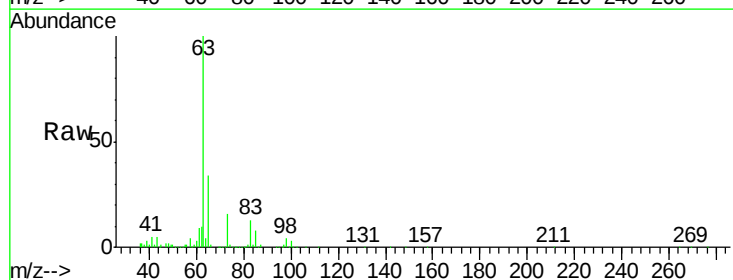
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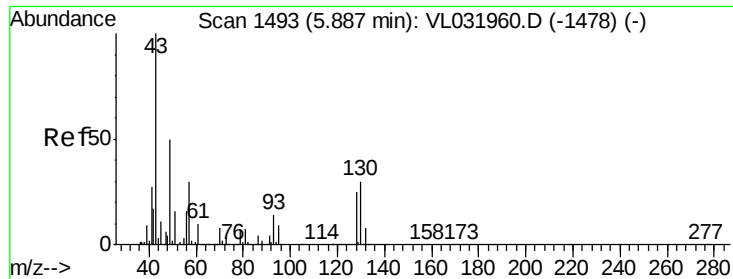
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#24
 1,1-Dichloroethane
 Concen: 8.72 ppbv
 RT: 5.21 min Scan# 1281
 Delta R.T. -0.01 min
 Lab File: VL031960.D
 Acq: 3 May 2018 11:24

Tgt Ion:	63	Resp:	1737935
Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.4	7.2
100	3.0	1.5	4.4





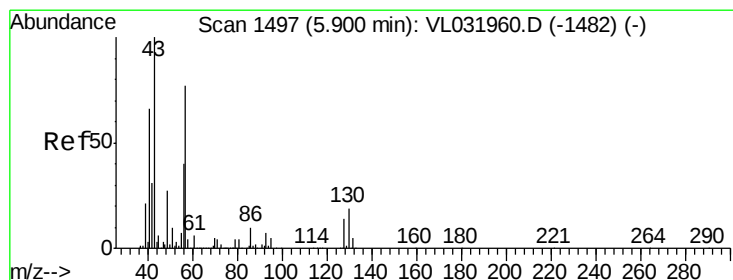
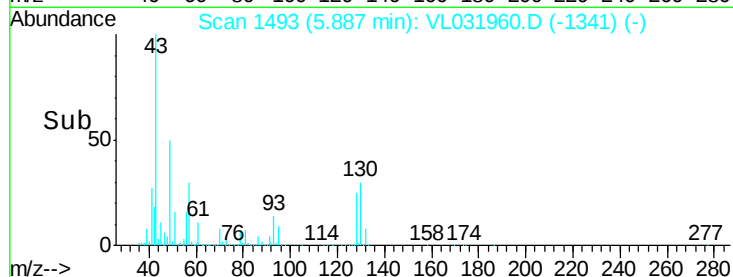
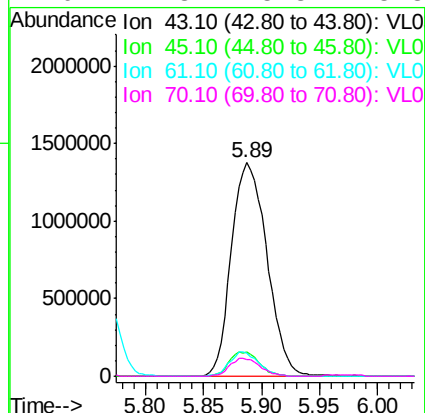
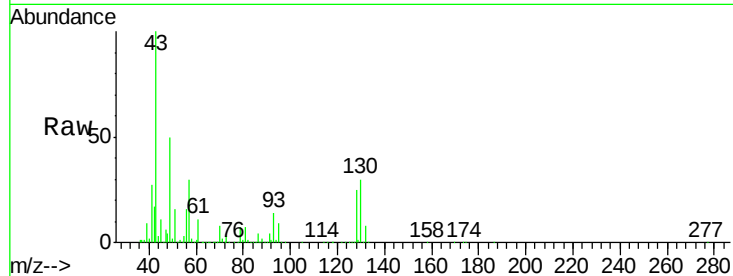
#25
Ethyl Acetate
Concen: 9.53 ppbv
RT: 5.89 min Scan# 1493
Delta R.T. -0.01 min
Lab File: VL031960.D
Acq: 3 May 2018 11:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	9.7	7.8	11.8	
61	9.3	7.2	10.8	
70	7.3	5.8	8.8	

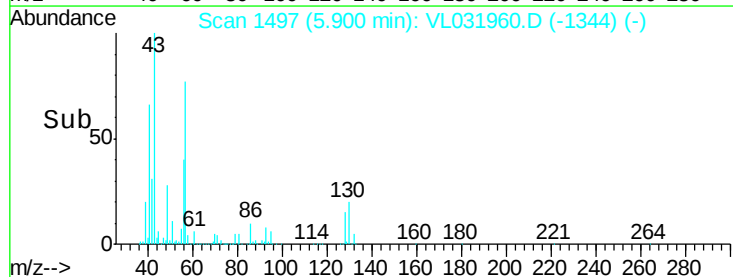
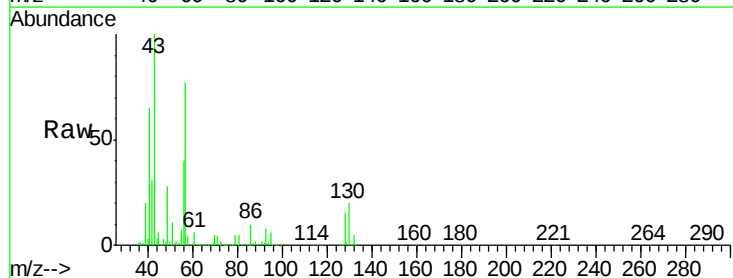
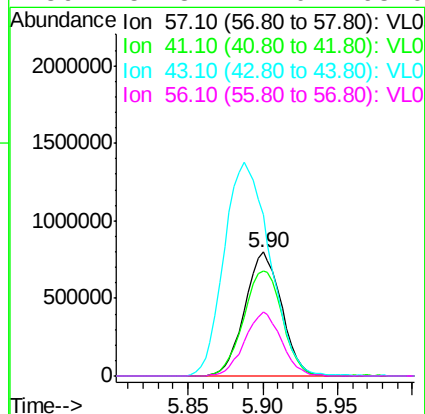
Manual Integrations
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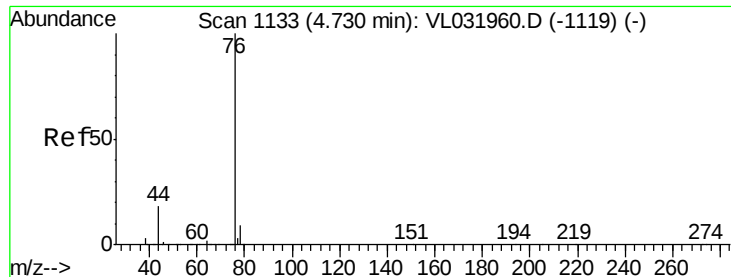
MMDadoda
5/4/2018 5:00:54 PM



#26
Hexane
Concen: 9.53 ppbv
RT: 5.90 min Scan# 1497
Delta R.T. -0.01 min
Lab File: VL031960.D
Acq: 3 May 2018 11:24

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	89.7	72.0	108.0	
43	214.4	169.8	254.8	
56	51.8	42.0	63.0	





#27

Carbon Disulfide

Concen: 8.95 ppbv

RT: 4.73 min Scan# 1133

Delta R.T. -0.01 min

Lab File: VL031960.D

Acq: 3 May 2018 11:24

Instrument :

MSVOA_L

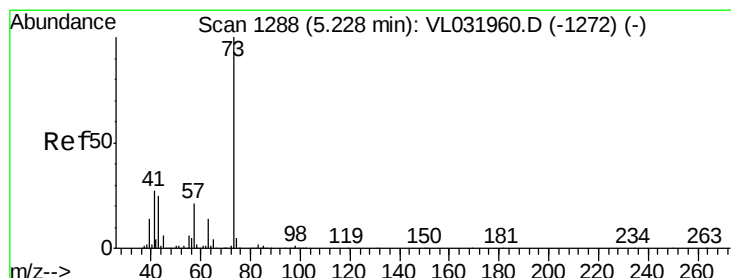
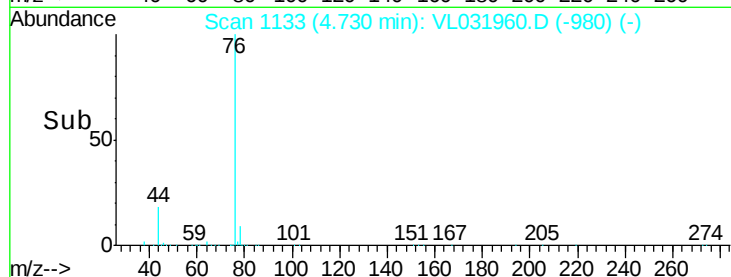
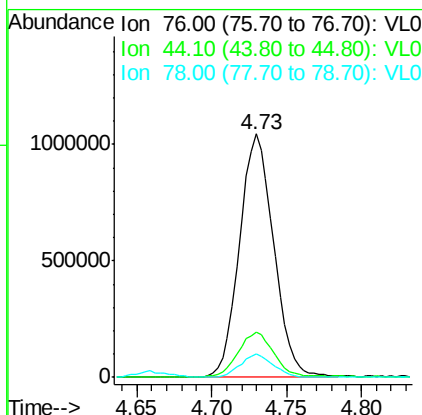
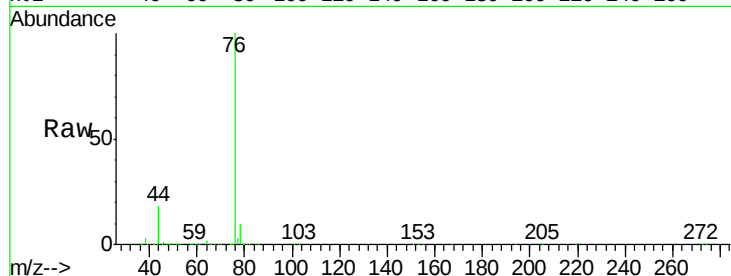
ClientSampleId :

VSTDICCC010

Tot Ion:	76	Resp:	1667134
Ion	Ratio	Lower	Upper
76	100		
44	19.2	15.6	23.4
78	9.2	7.6	11.4

Manual Integrations
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5/4/2018 5:00:54 PM



#28

Methyl tert-Butyl Ether

Concen: 10.00 ppbv

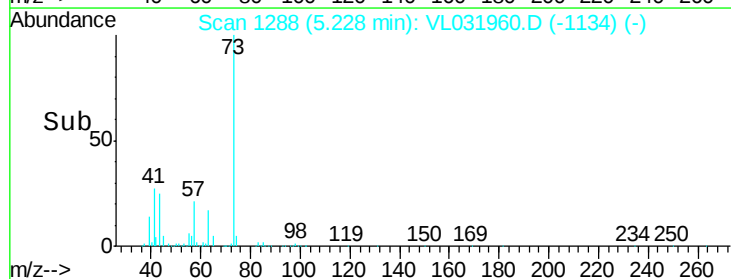
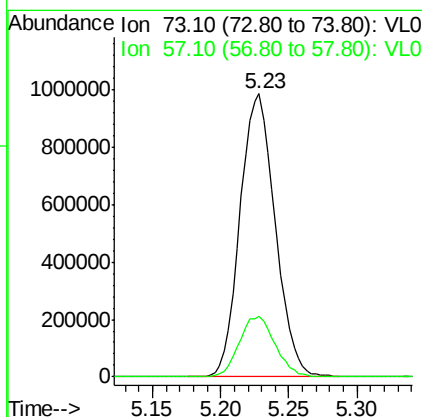
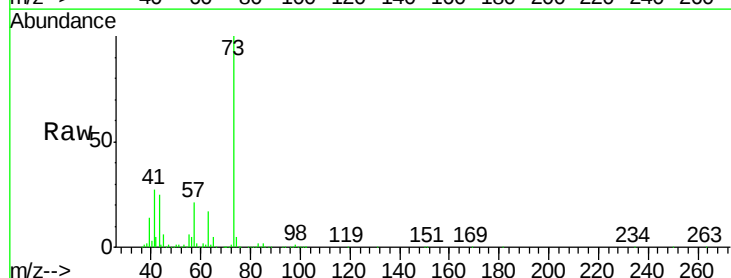
RT: 5.23 min Scan# 1288

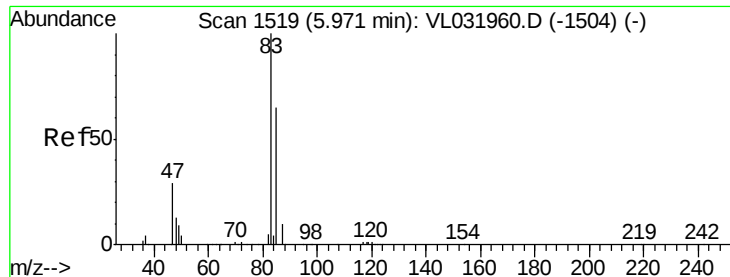
Delta R.T. -0.00 min

Lab File: VL031960.D

Acq: 3 May 2018 11:24

Tgt Ion:	73	Resp:	1764426
Ion	Ratio	Lower	Upper
73	100		
57	22.0	17.6	26.4





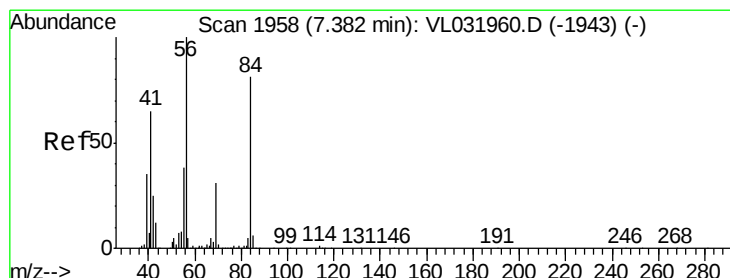
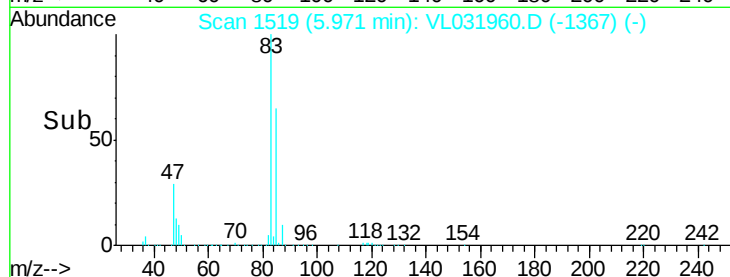
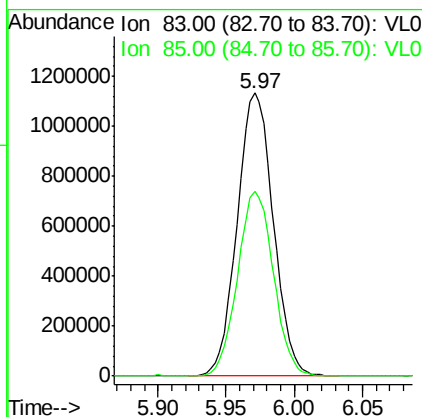
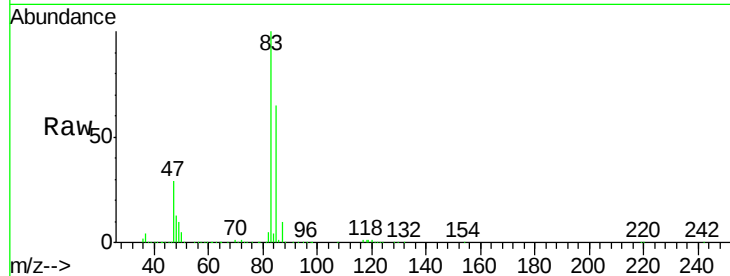
#29
Chloroform
Concen: 8.59 ppbv
RT: 5.97 min Scan# 1519
Delta R.T. -0.01 min
Lab File: VL031960.D
Acq: 3 May 2018 11:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 83 Resp: 2088626
Ion Ratio Lower Upper
83 100
85 65.2 51.4 77.0

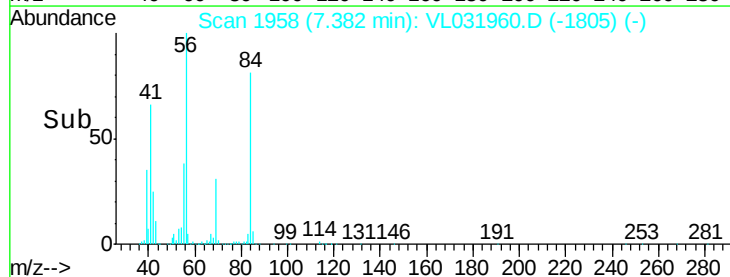
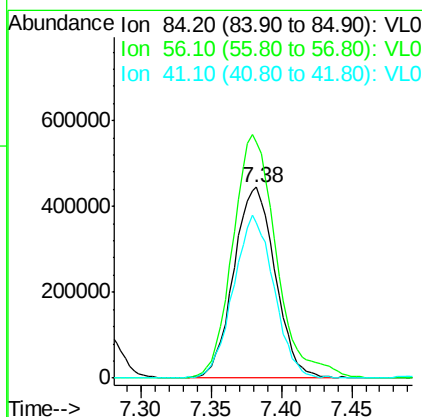
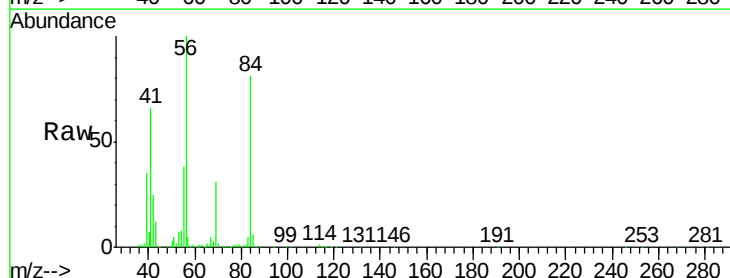
Manual Integrations
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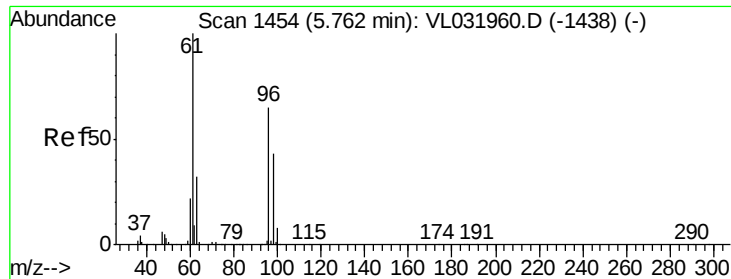
MMDadoda
5/4/2018 5:00:54 PM



#30
Cyclohexane
Concen: 8.92 ppbv
RT: 7.38 min Scan# 1958
Delta R.T. -0.01 min
Lab File: VL031960.D
Acq: 3 May 2018 11:24

Tgt Ion: 84 Resp: 913455
Ion Ratio Lower Upper
84 100
56 135.0 107.7 161.5
41 83.5 68.2 102.2





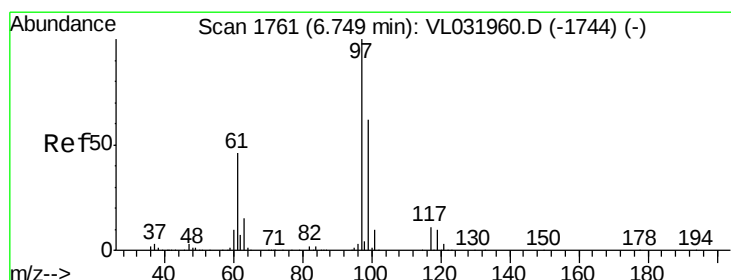
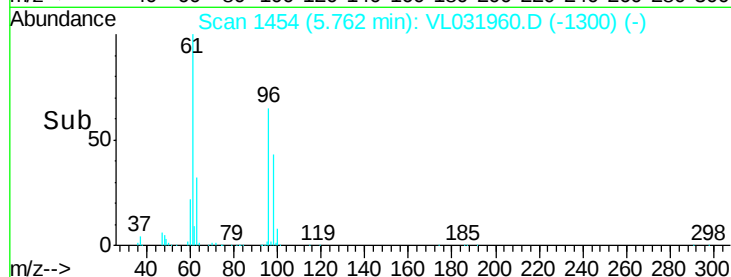
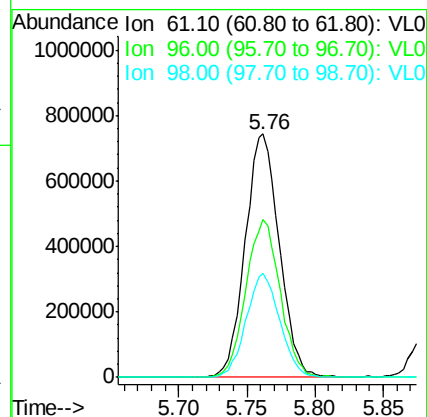
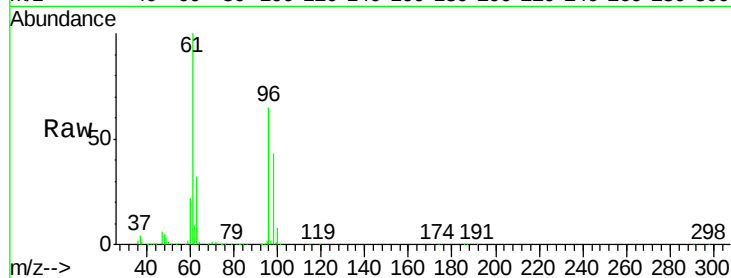
#31
 cis-1,2-Dichloroethene
 Concen: 9.93 ppbv
 RT: 5.76 min Scan# 1454
 Delta R.T. -0.00 min
 Lab File: VL031960.D
 Acq: 3 May 2018 11:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	64.7	47.6	71.4
98	42.8	30.3	45.5

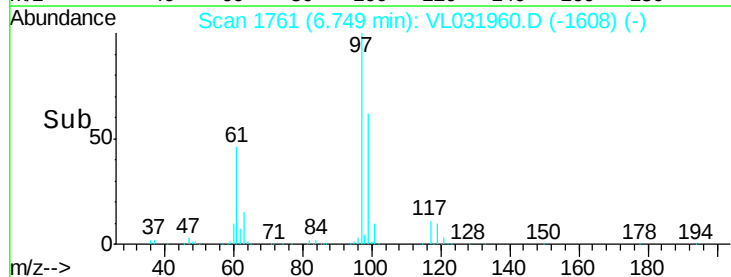
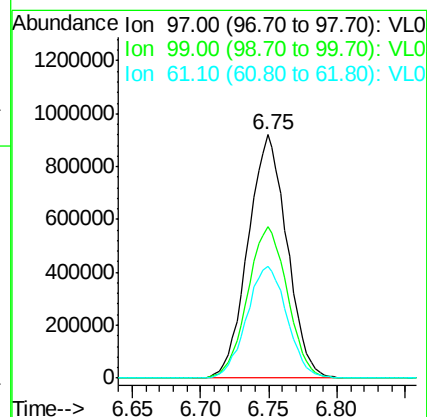
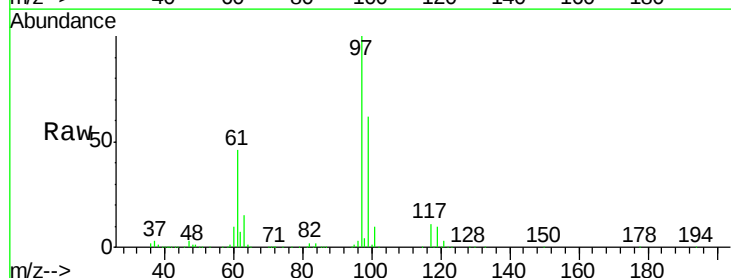
Manual Integrations
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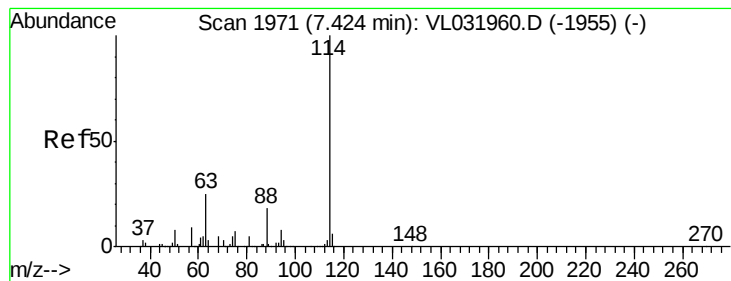
MMDadoda
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#32
 1,1,1-Trichloroethane
 Concen: 7.69 ppbv
 RT: 6.75 min Scan# 1761
 Delta R.T. -0.01 min
 Lab File: VL031960.D
 Acq: 3 May 2018 11:24

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.5	77.3
61	47.6	40.0	60.0





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.42 min Scan# 1971

Delta R.T. -0.01 min

Lab File: VL031960.D

Acq: 3 May 2018 11:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:114 Resp: 2569488

Ion Ratio Lower Upper

114 100

63 26.0 21.8 32.6

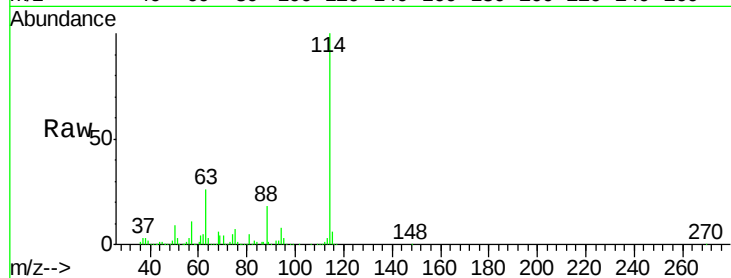
88 18.2 14.6 22.0

Manual Integrations

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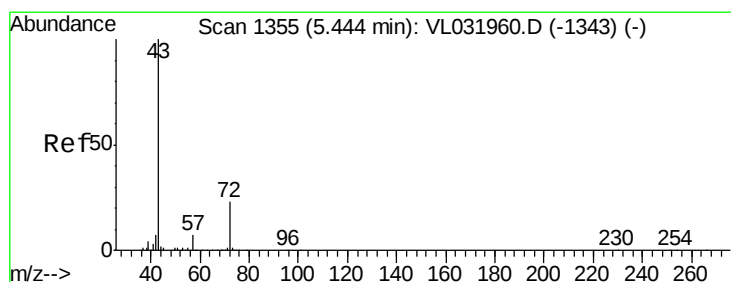
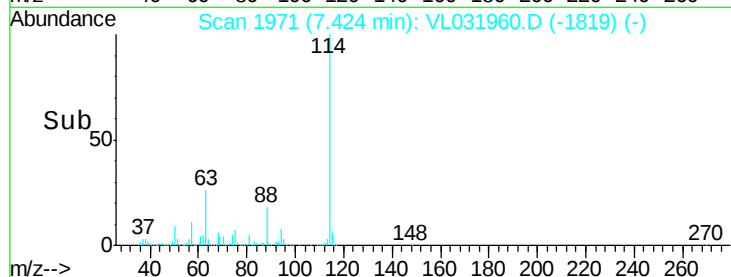
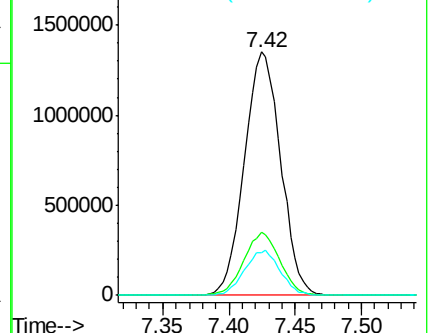
5/4/2018 5:00:54 PM



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 11.10 ppbv

RT: 5.44 min Scan# 1355

Delta R.T. -0.01 min

Lab File: VL031960.D

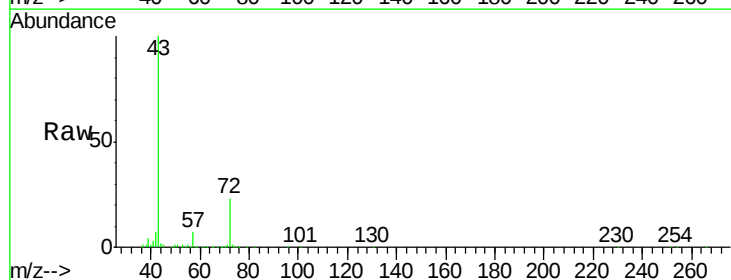
Acq: 3 May 2018 11:24

Tgt Ion: 43 Resp: 1978095

Ion Ratio Lower Upper

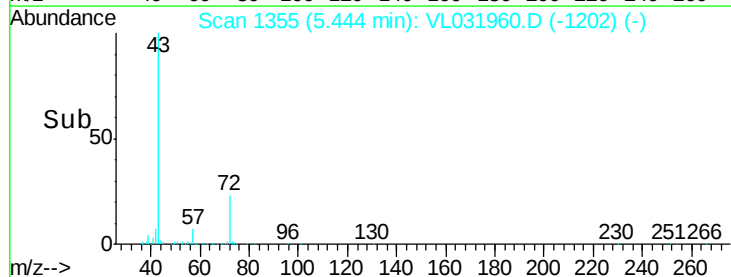
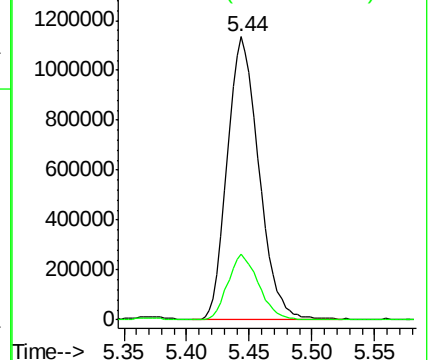
43 100

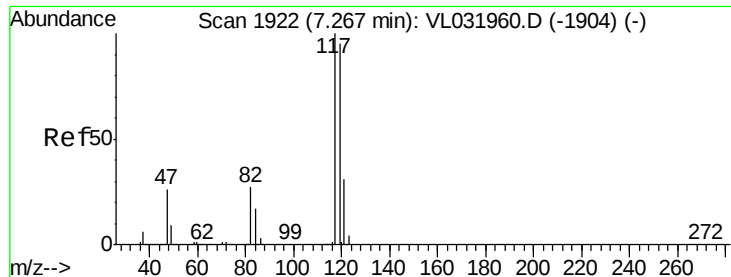
72 22.9 18.6 27.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 8.26 ppbv

RT: 7.27 min Scan# 1922

Delta R.T. -0.01 min

Lab File: VL031960.D

Acq: 3 May 2018 11:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:117 Resp: 1843240

Ion Ratio Lower Upper

117 100

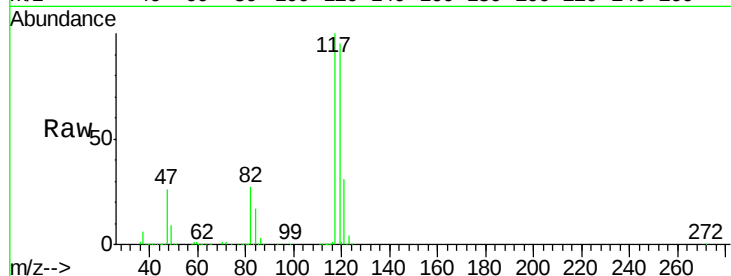
119 95.5 76.9 115.3

121 30.5 24.5 36.7

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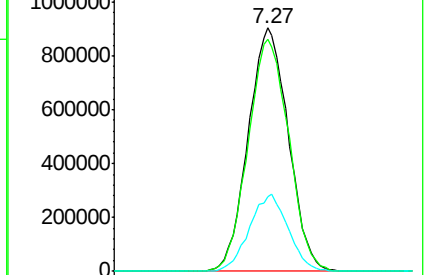
5/4/2018 5:00:54 PM



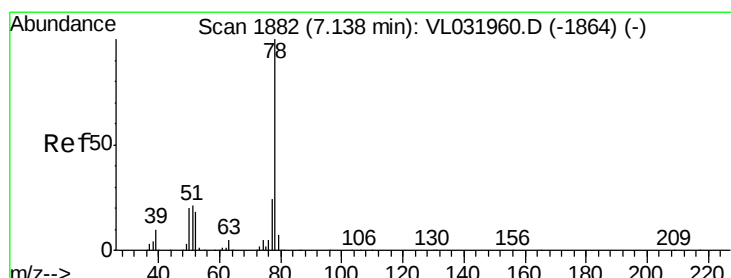
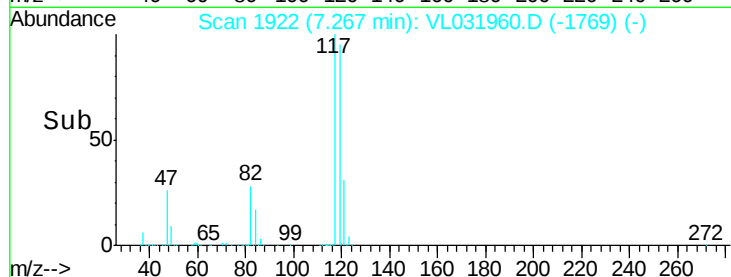
Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



Time-->



#36

Benzene

Concen: 9.86 ppbv

RT: 7.14 min Scan# 1882

Delta R.T. -0.01 min

Lab File: VL031960.D

Acq: 3 May 2018 11:24

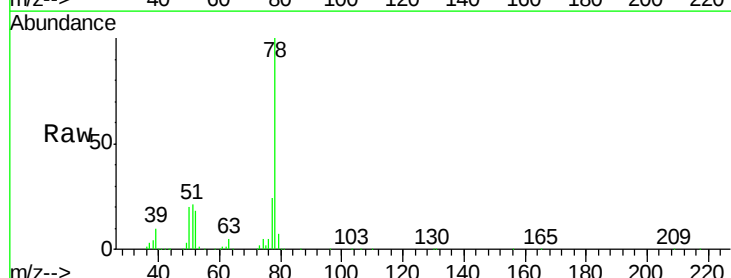
Tgt Ion: 78 Resp: 2278880

Ion Ratio Lower Upper

78 100

77 24.0 19.2 28.8

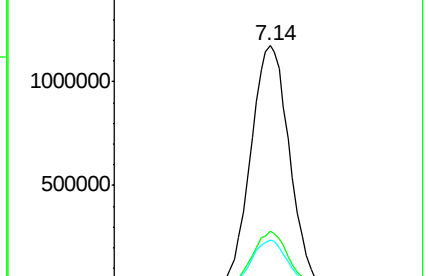
50 20.3 16.7 25.1



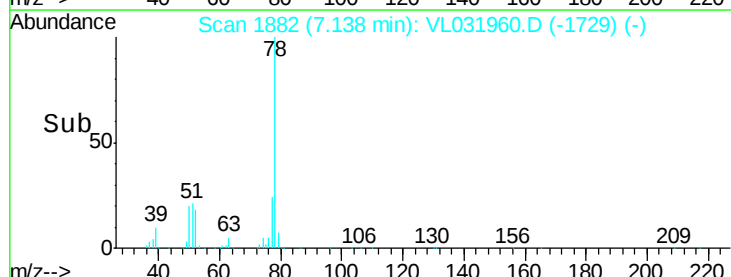
Abundance Ion 78.10 (77.80 to 78.80): VL0

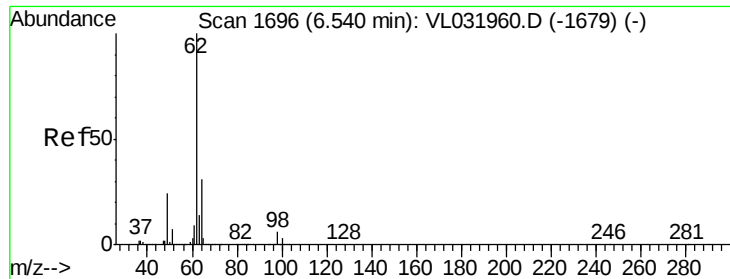
Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0



Time-->





#37

1,2-Dichloroethane

Concen: 10.14 ppbv

RT: 6.54 min Scan# 1696

Delta R.T. -0.01 min

Lab File: VL031960.D

Acq: 3 May 2018 11:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 62 Resp: 1743336

Ion Ratio Lower Upper

62 100

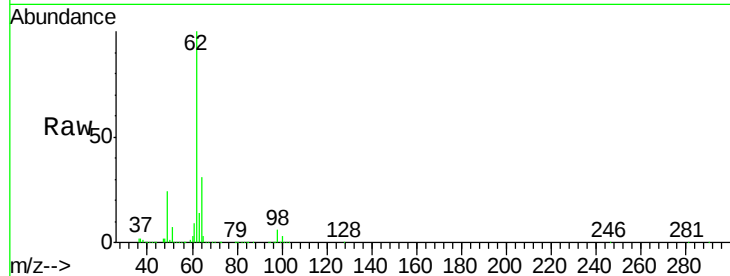
98 5.7 4.0 6.0

Manual Integrations

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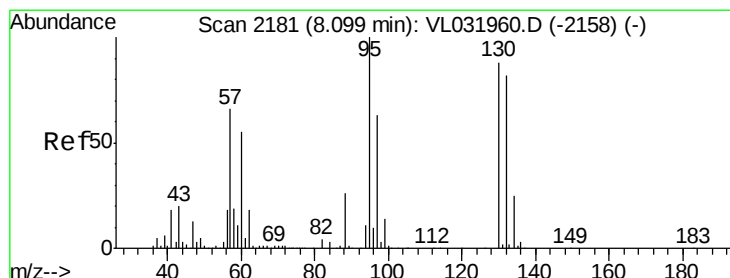
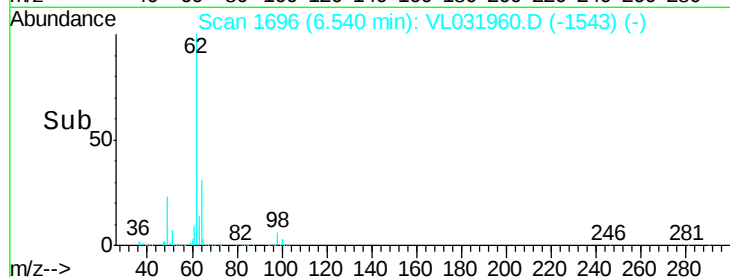
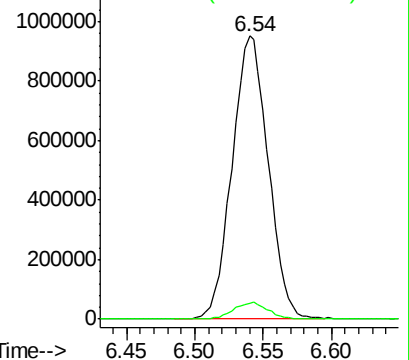
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 9.53 ppbv

RT: 8.10 min Scan# 2181

Delta R.T. -0.00 min

Lab File: VL031960.D

Acq: 3 May 2018 11:24

Tgt Ion:130 Resp: 893877

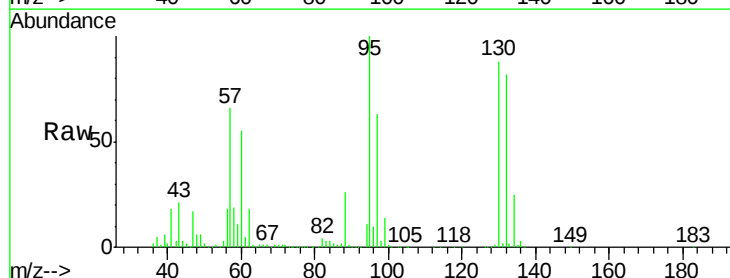
Ion Ratio Lower Upper

130 100

95 113.4 96.6 144.8

132 92.9 79.1 118.7

97 71.6 61.5 92.3

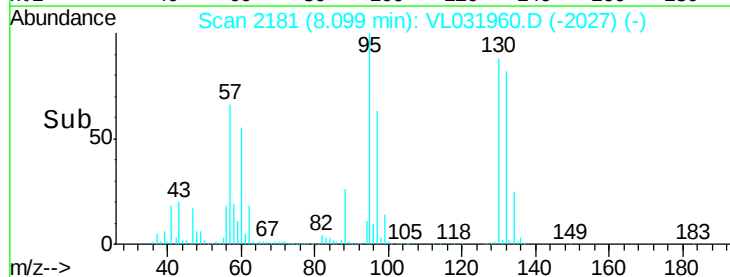
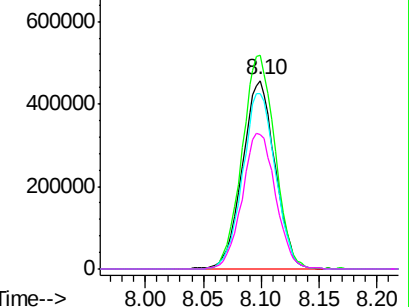


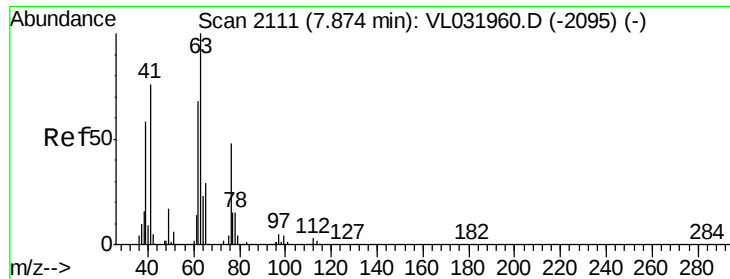
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





#39

1,2-Dichloropropane

Concen: 9.40 ppbv

RT: 7.87 min Scan# 2111

Delta R.T. -0.01 min

Lab File: VL031960.D

Acq: 3 May 2018 11:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 63 Resp: 807286

Ion Ratio Lower Upper

63 100

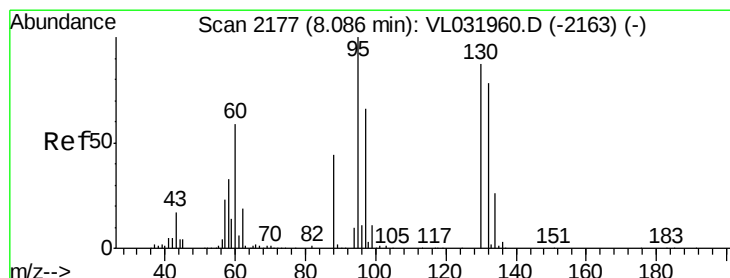
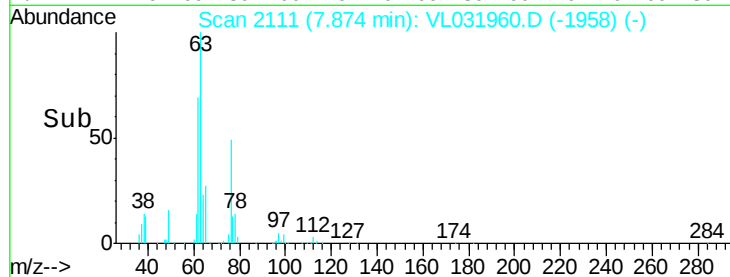
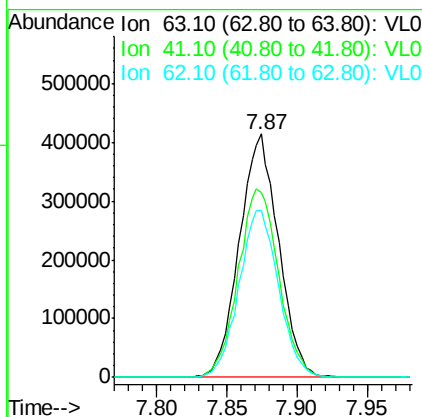
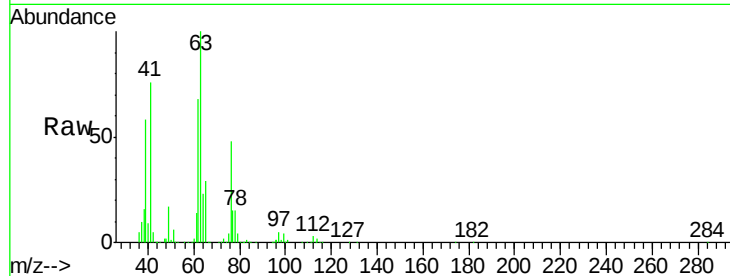
41 75.9 65.8 98.6

62 68.4 55.0 82.6

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#40

1,4-Dioxane

Concen: 10.41 ppbv

RT: 8.09 min Scan# 2177

Delta R.T. -0.01 min

Lab File: VL031960.D

Acq: 3 May 2018 11:24

Tgt Ion: 88 Resp: 362857

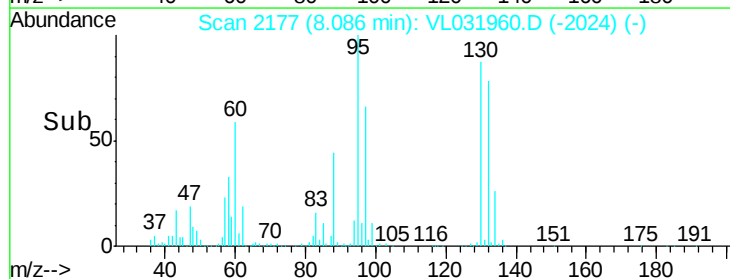
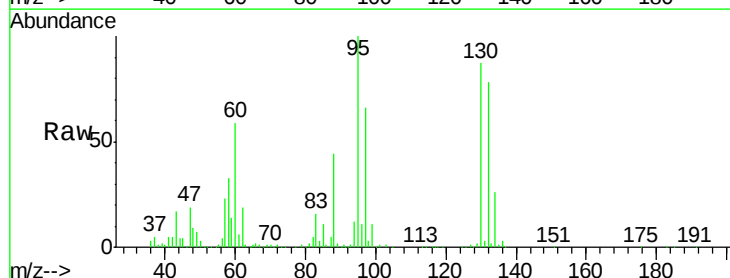
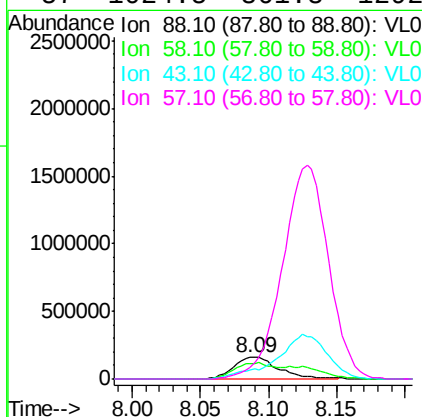
Ion Ratio Lower Upper

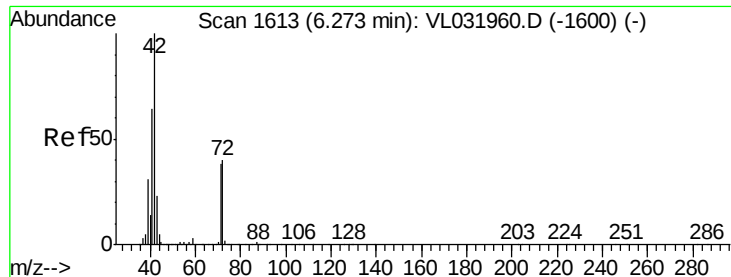
88 100

58 118.6 98.5 147.7

43 235.2 194.3 291.5

57 1024.5 861.8 1292.6





#41

Tetrahydrofuran

Concen: 12.28 ppbv

RT: 6.27 min Scan# 1613

Delta R.T. -0.01 min

Lab File: VL031960.D

Acq: 3 May 2018 11:24

Instrument :

MSVOA_L

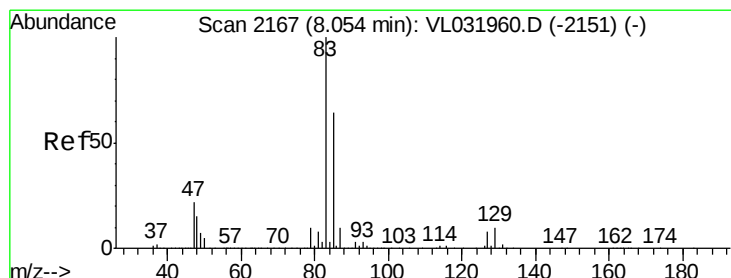
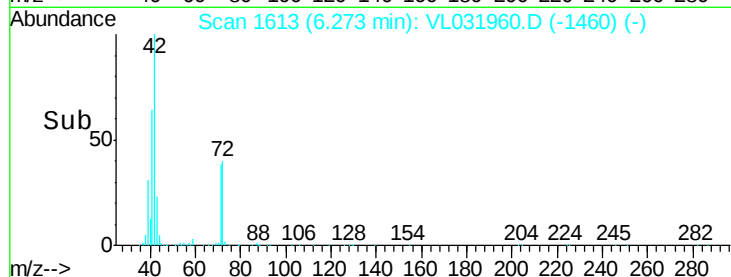
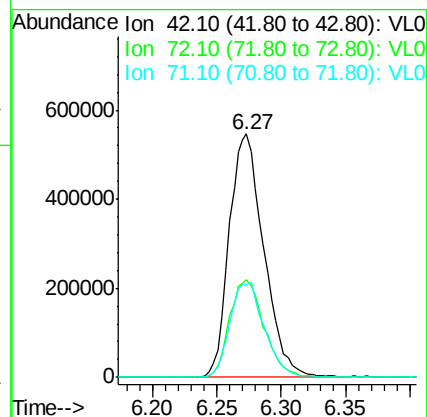
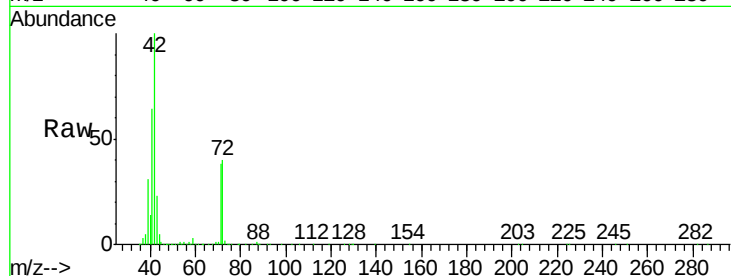
ClientSampleId :

VSTDICCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.4	33.2	49.8
71	39.3	31.5	47.3

Manual Integrations
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#42

Bromodichloromethane

Concen: 9.06 ppbv

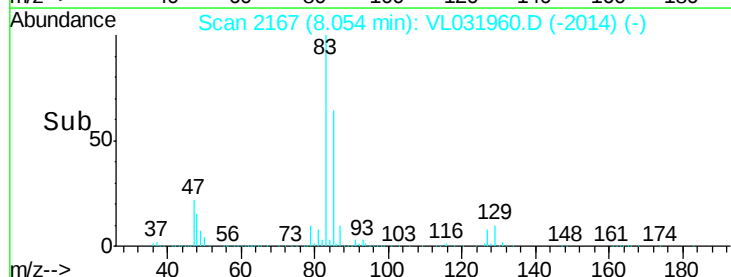
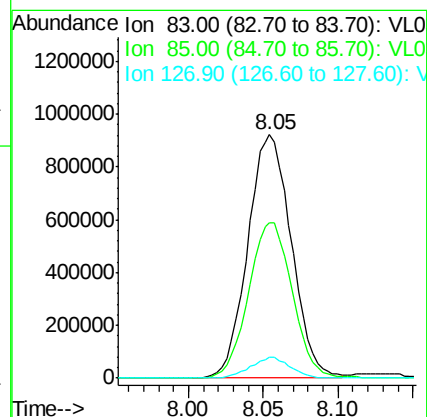
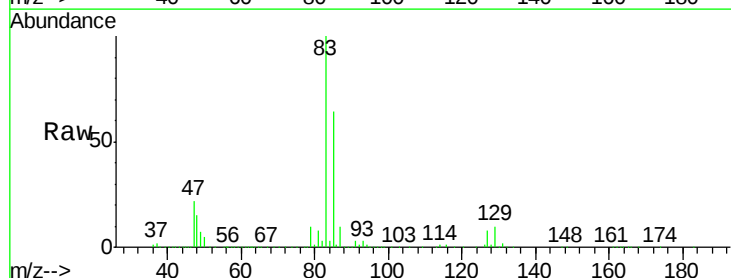
RT: 8.05 min Scan# 2167

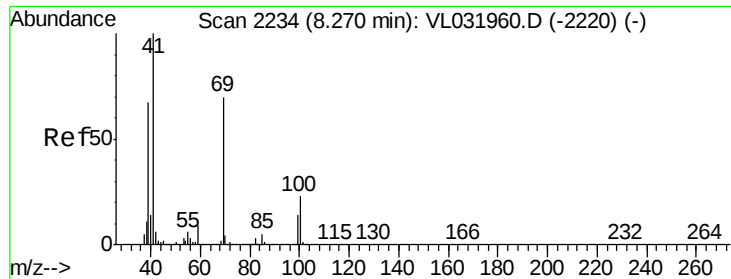
Delta R.T. -0.01 min

Lab File: VL031960.D

Acq: 3 May 2018 11:24

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.8	50.5	75.7
127	8.4	6.0	9.0





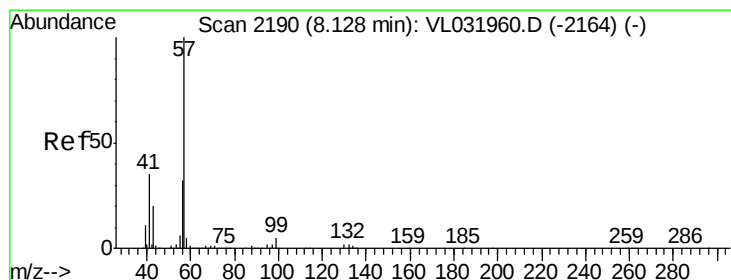
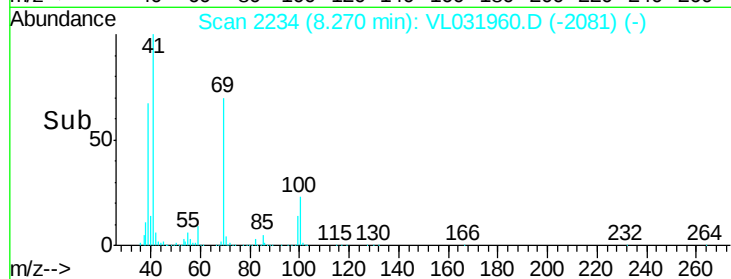
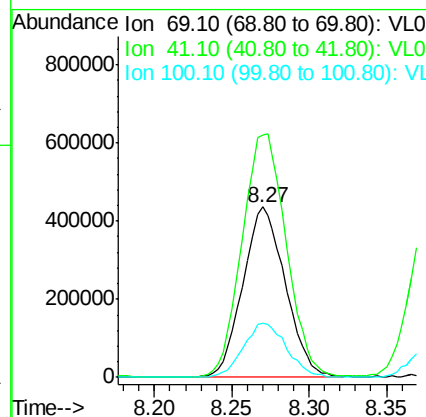
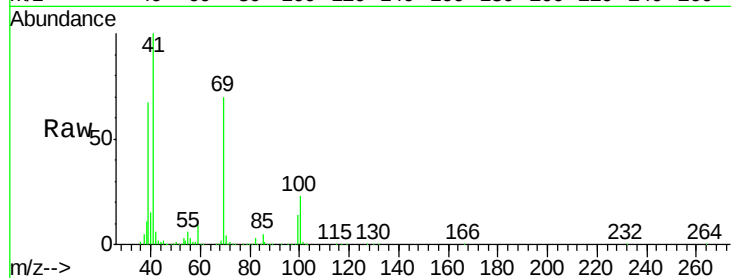
#43
Methvl Methacrilate
Concen: 10.22 ppbv
RT: 8.27 min Scan# 2234
Delta R.T. -0.01 min
Lab File: VL031960.D
Acq: 3 May 2018 11:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	149.3	117.8	176.8	
100	32.5	24.6	37.0	

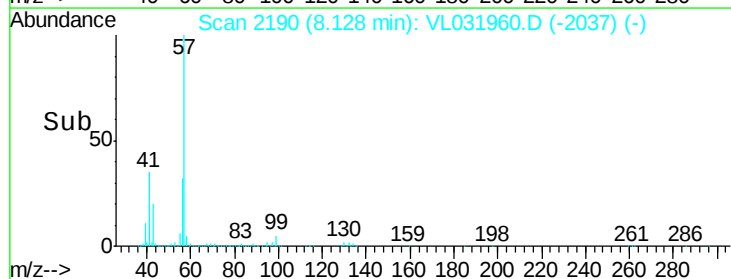
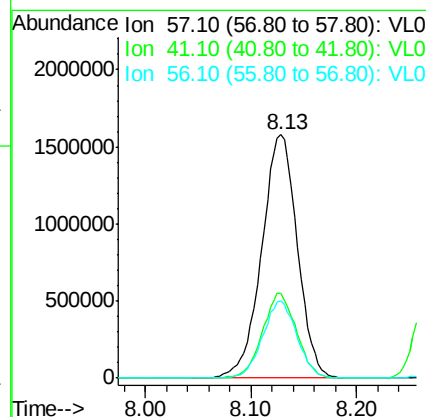
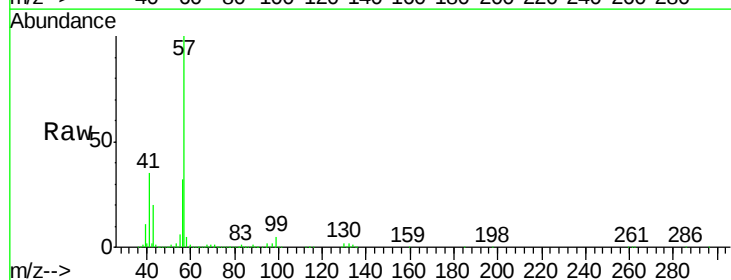
Manual Integrations
APPROVED

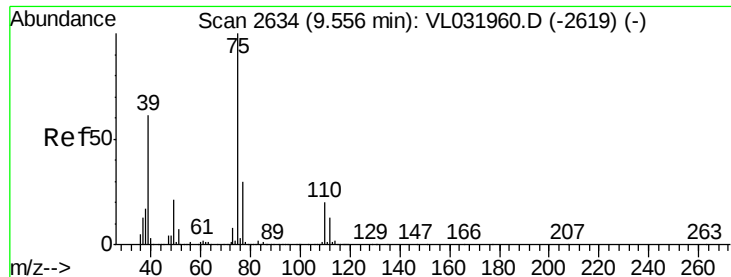
MMDadoda
5/4/2018 5:00:54 PM



#44
2,2,4-Trimethylpentane
Concen: 9.32 ppbv
RT: 8.13 min Scan# 2190
Delta R.T. -0.01 min
Lab File: VL031960.D
Acq: 3 May 2018 11:24

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	33.2	27.0	40.6	
56	30.5	24.1	36.1	





#45

t-1,3-Dichloropropene

Concen: 11.28 ppbv

RT: 9.56 min Scan# 2634

Delta R.T. -0.00 min

Lab File: VL031960.D

Acq: 3 May 2018 11:24

Tot Ion: 75 Resp: 1189913

Ion Ratio Lower Upper

75 100

77 30.5 25.1 37.7

Instrument :

MSVOA_L

ClientSampleId :

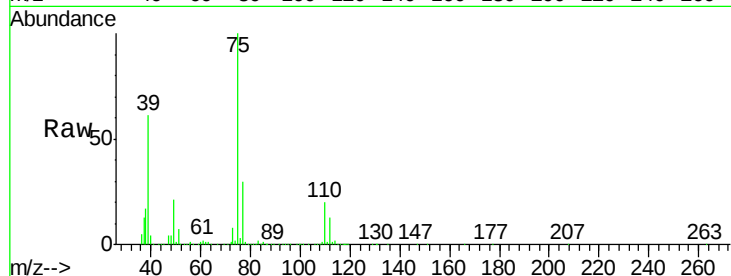
VSTDICCC010

Manual Integrations

APPROVED

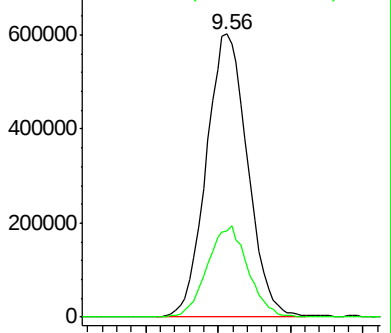
MMDadoda

5/4/2018 5:00:54 PM

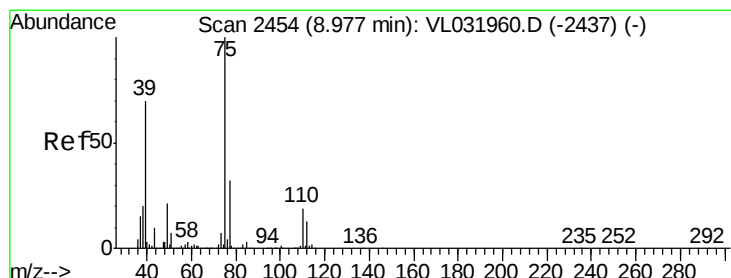
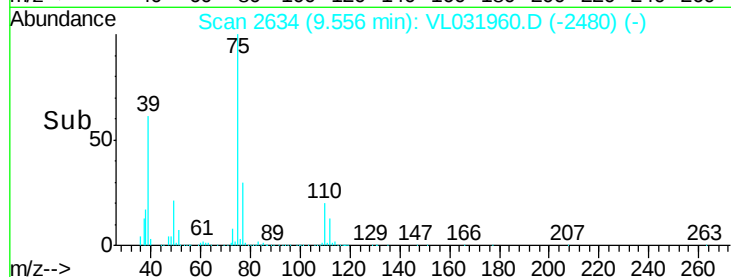


Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



Time-->



#46

cis-1,3-Dichloropropene

Concen: 10.87 ppbv

RT: 8.98 min Scan# 2454

Delta R.T. -0.00 min

Lab File: VL031960.D

Acq: 3 May 2018 11:24

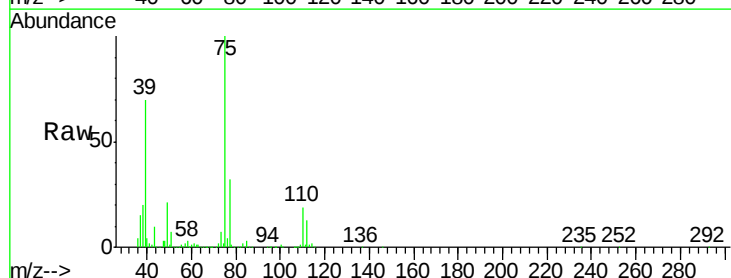
Tgt Ion: 75 Resp: 1465298

Ion Ratio Lower Upper

75 100

39 69.6 58.6 87.8

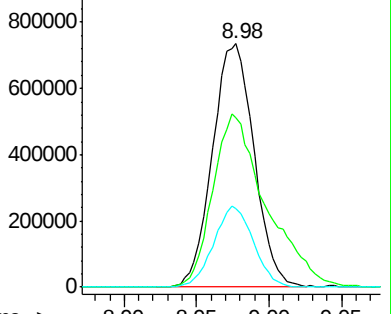
77 32.4 26.8 40.2



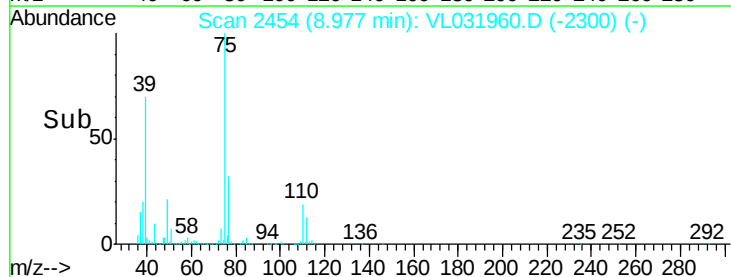
Abundance Ion 75.00 (74.70 to 75.70): VL0

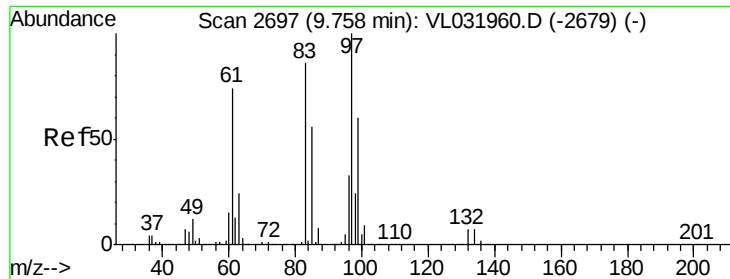
Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0



Time-->





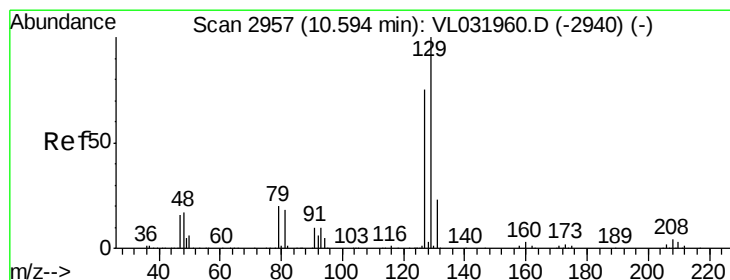
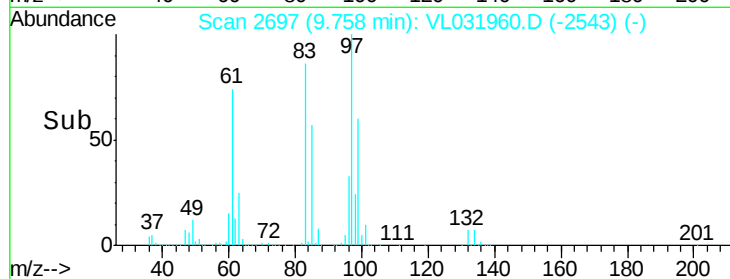
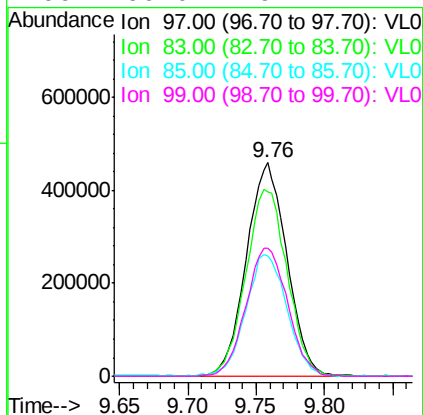
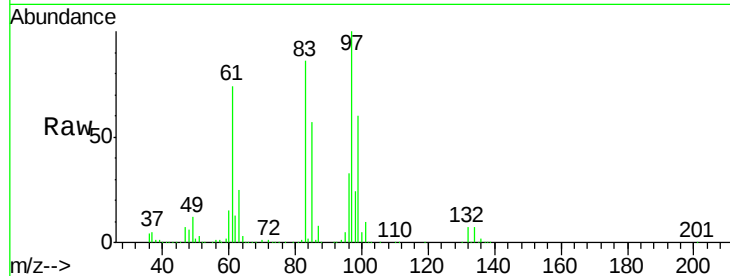
#47
 1,1,2-Trichloroethane
 Concen: 9.28 ppbv
 RT: 9.76 min Scan# 2697
 Delta R.T. -0.00 min
 Lab File: VL031960.D
 Acq: 3 May 2018 11:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	97	Resp	947222
Ion	Ratio	Lower	Upper
97	100		
83	86.2	69.1	103.7
85	56.3	43.7	65.5
99	60.0	49.4	74.2

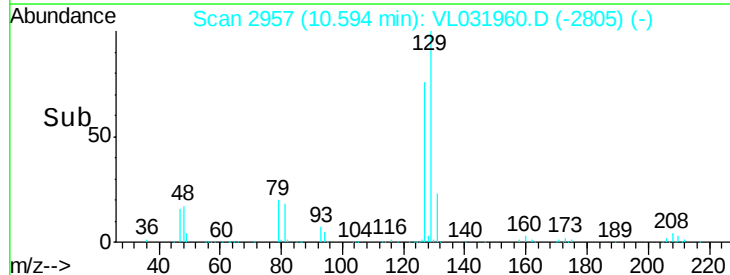
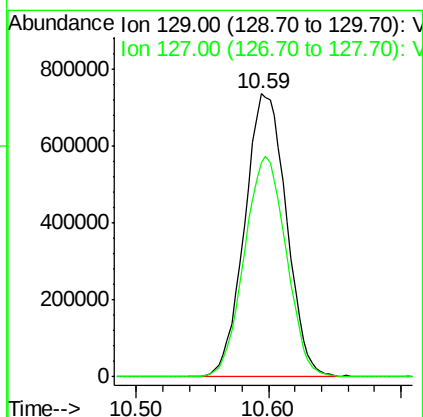
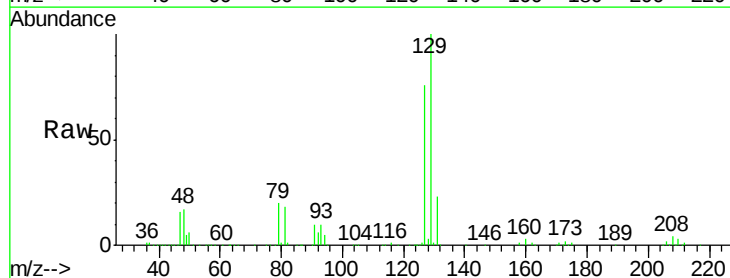
Manual Integrations
 APPROVED

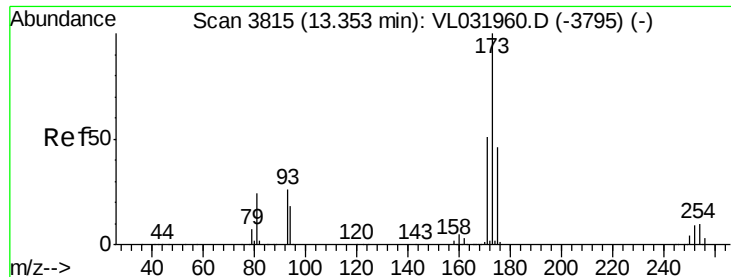
MMDadoda
 5/4/2018 5:00:54 PM



#48
 Dibromochloromethane
 Concen: 9.75 ppbv
 RT: 10.59 min Scan# 2957
 Delta R.T. -0.01 min
 Lab File: VL031960.D
 Acq: 3 May 2018 11:24

Tgt Ion	129	Resp	1608674
Ion	Ratio	Lower	Upper
129	100		
127	78.1	39.1	117.5





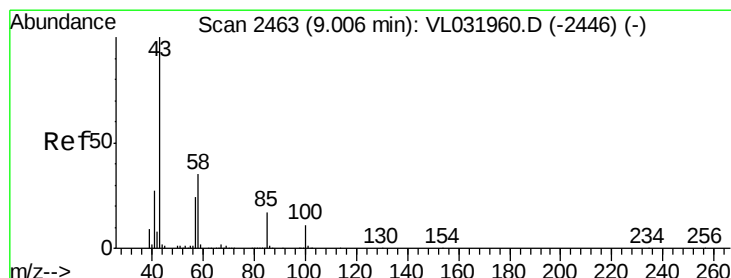
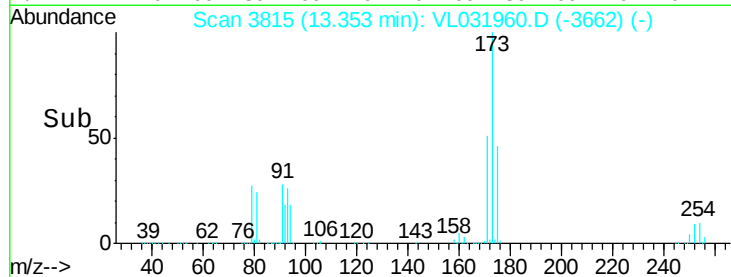
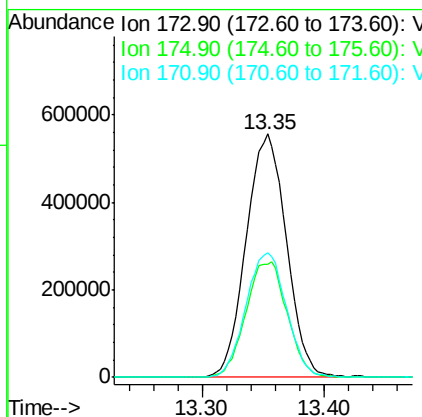
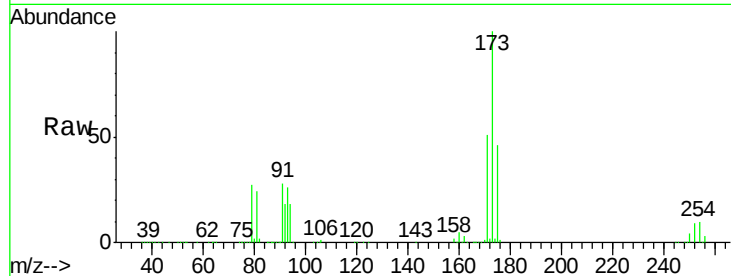
#49
Bromoform
Concen: 9.98 ppbv
RT: 13.35 min Scan# 3815
Delta R.T. -0.01 min
Lab File: VL031960.D
Acq: 3 May 2018 11:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion:173 Resp: 1268344
Ion Ratio Lower Upper
173 100
175 49.0 39.0 58.6
171 51.9 41.4 62.0

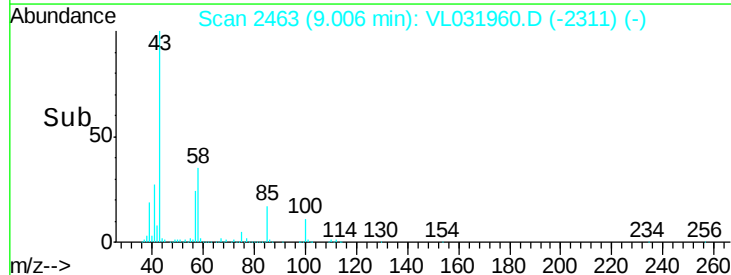
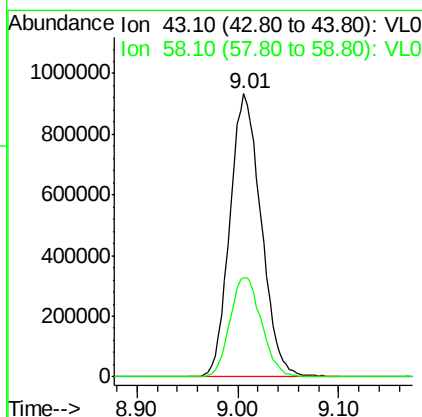
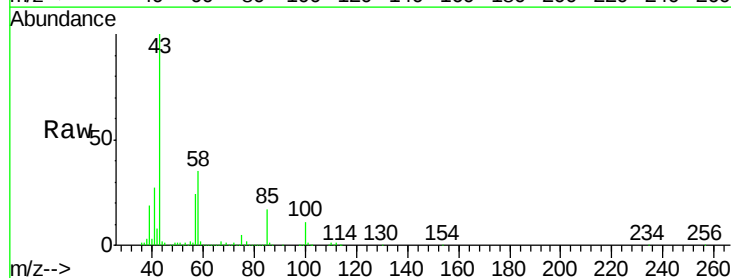
Manual Integrations
APPROVED

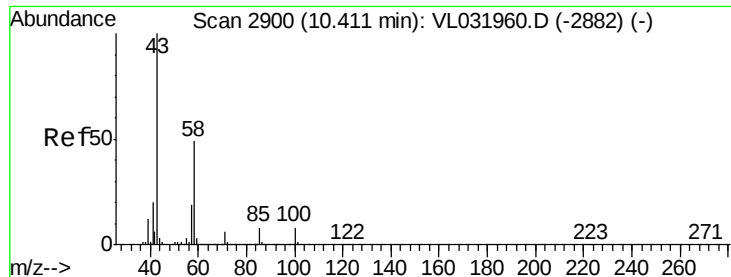
MMDadoda
5/4/2018 5:00:54 PM



#50
4-Methyl-2-Pentanone
Concen: 9.87 ppbv
RT: 9.01 min Scan# 2463
Delta R.T. -0.01 min
Lab File: VL031960.D
Acq: 3 May 2018 11:24

Tgt Ion: 43 Resp: 2012647
Ion Ratio Lower Upper
43 100
58 35.7 28.6 43.0





#51

2-Hexanone

Concen: 10.75 ppbv

RT: 10.41 min Scan# 2900

Delta R.T. -0.01 min

Lab File: VL031960.D

Acq: 3 May 2018 11:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 43 Resp: 1916368

Ion Ratio Lower Upper

43 100

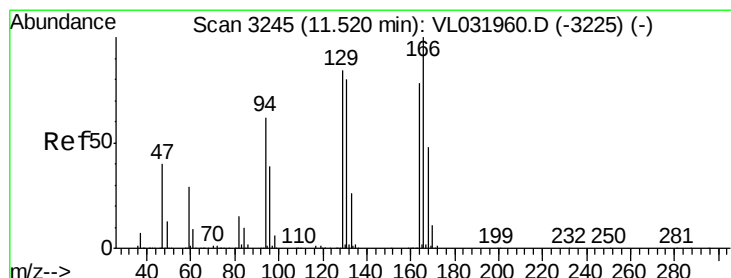
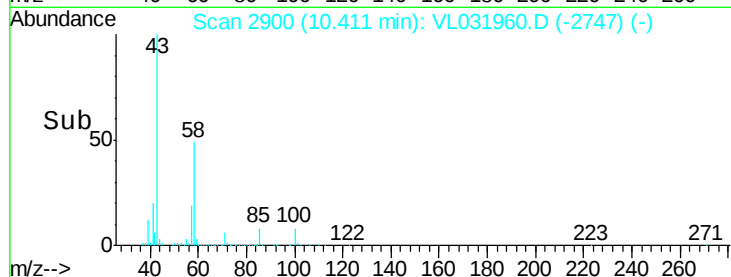
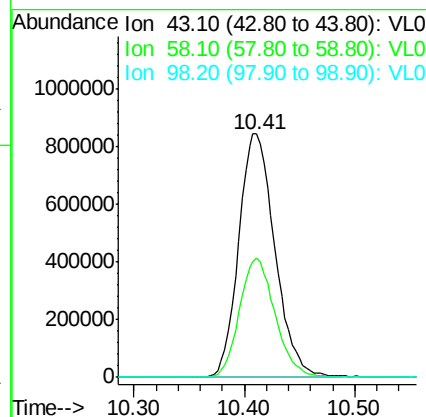
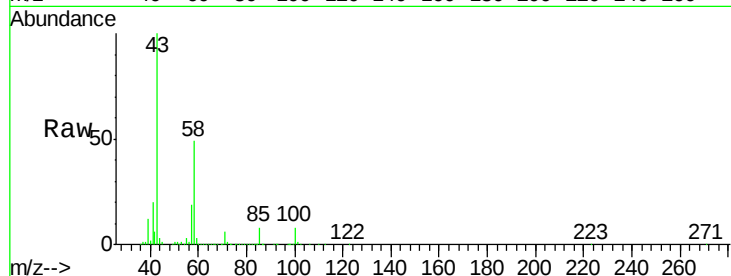
58 48.3 38.5 57.7

98 0.2 0.2 0.4#

Manual Integrations
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MMDadoda

5/4/2018 5:00:54 PM



#52

Tetrachloroethene

Concen: 9.71 ppbv

RT: 11.52 min Scan# 3245

Delta R.T. -0.00 min

Lab File: VL031960.D

Acq: 3 May 2018 11:24

Tgt Ion: 164 Resp: 874648

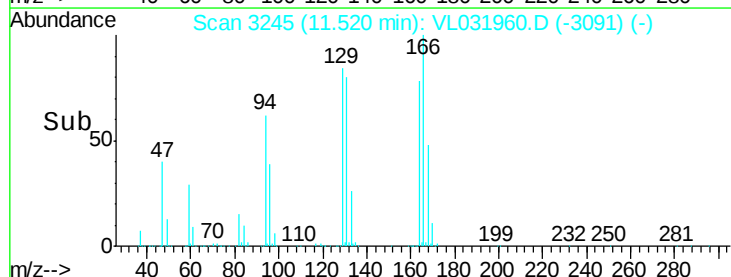
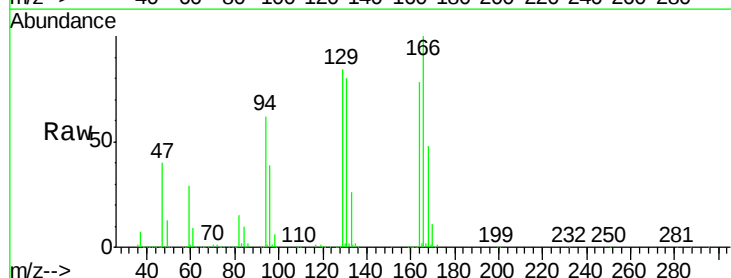
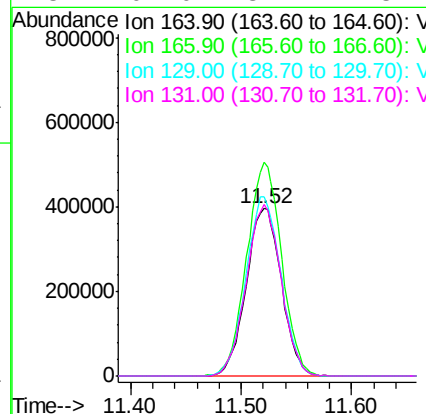
Ion Ratio Lower Upper

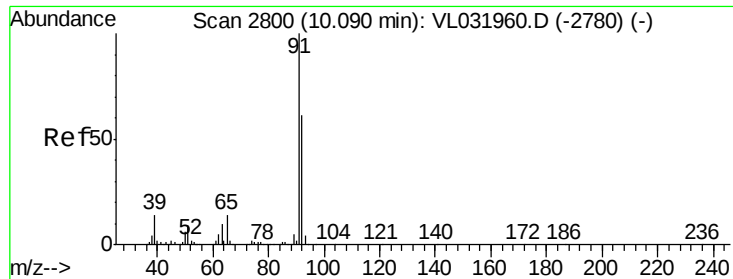
164 100

166 127.4 98.2 147.4

129 107.2 86.5 129.7

131 102.0 82.2 123.2





#53

Toluene

Concen: 10.48 ppbv

RT: 10.09 min Scan# 2800

Delta R.T. -0.00 min

Lab File: VL031960.D

Acq: 3 May 2018 11:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 2701446

Ion Ratio Lower Upper

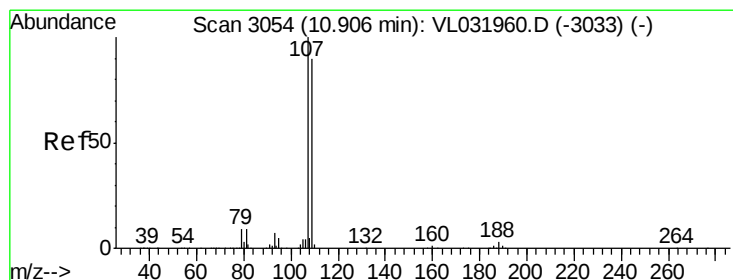
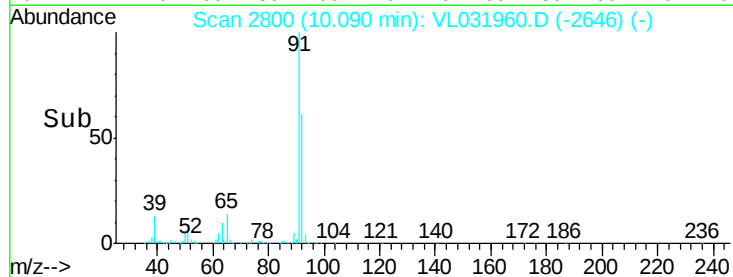
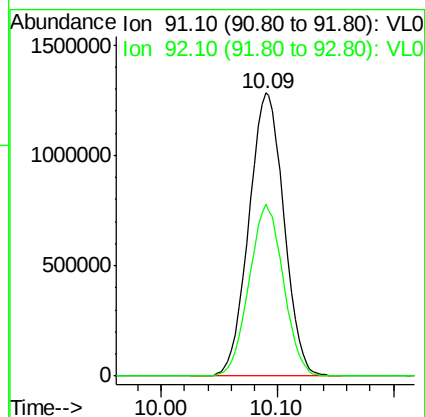
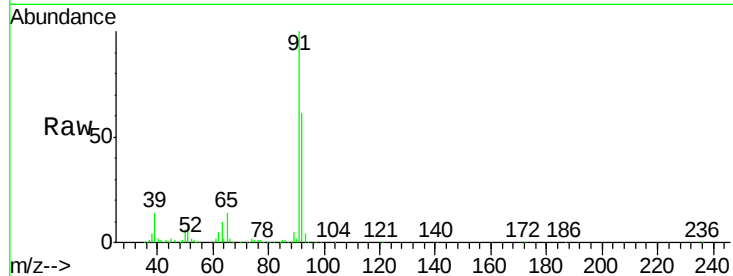
91 100

92 59.3 47.4 71.2

Manual Integrations
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MMDadoda

5/4/2018 5:00:54 PM



#54

1,2-Dibromoethane

Concen: 9.98 ppbv

RT: 10.91 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VL031960.D

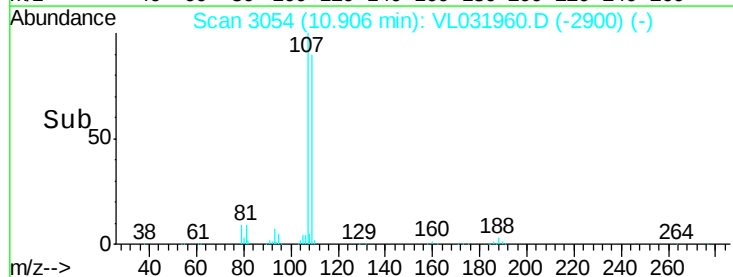
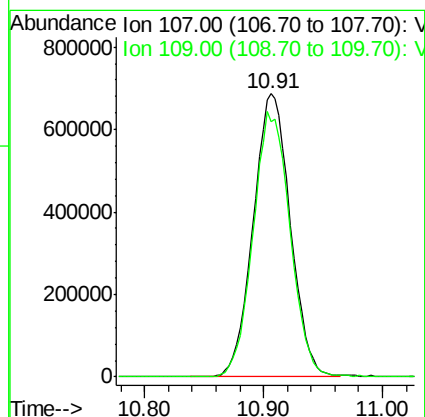
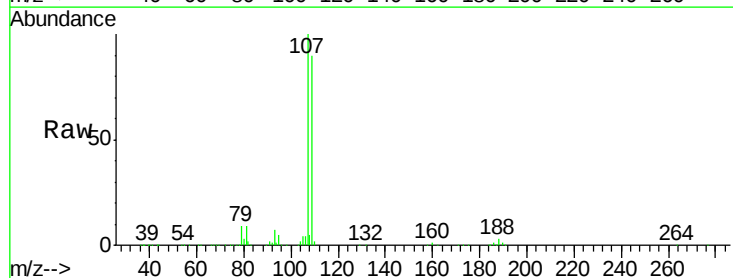
Acq: 3 May 2018 11:24

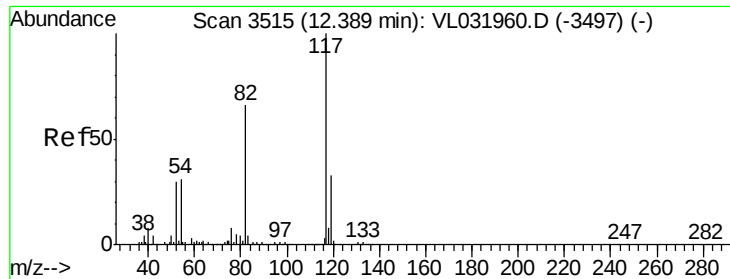
Tgt Ion: 107 Resp: 1478890

Ion Ratio Lower Upper

107 100

109 90.1 74.6 112.0





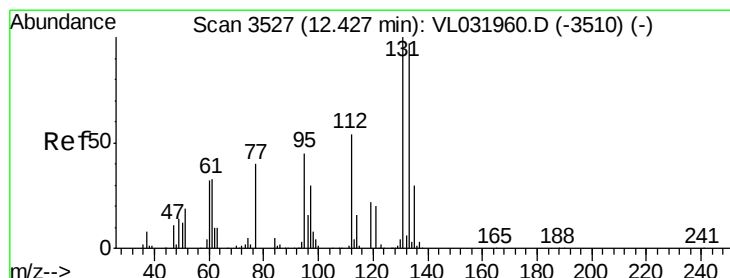
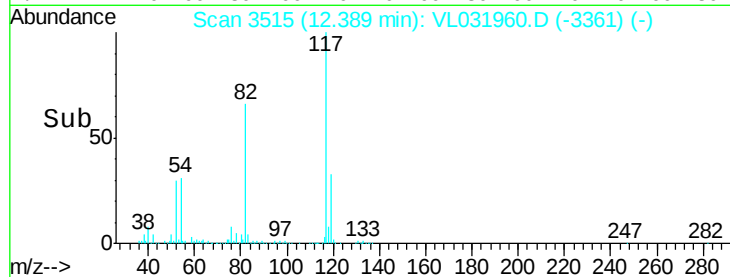
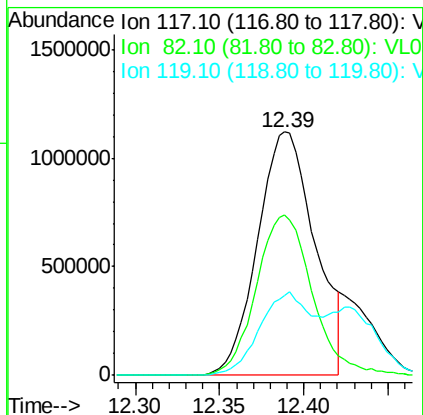
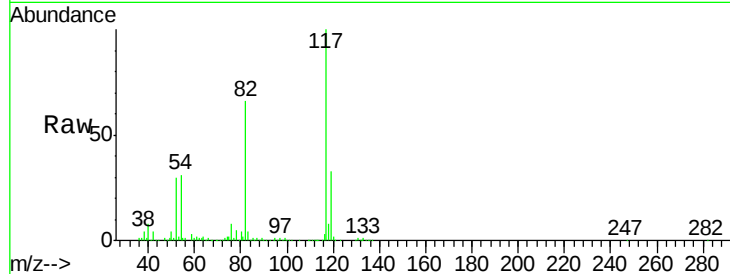
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.39 min Scan# 3515
Delta R.T. -0.00 min
Lab File: VL031960.D
Acq: 3 May 2018 11:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Lower	Upper
117	100		
82	64.5	54.6	81.8
119	55.3	26.0	39.0#

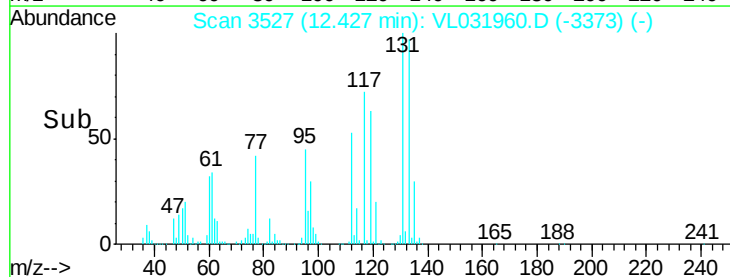
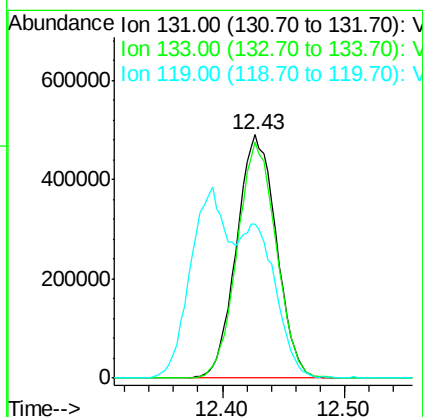
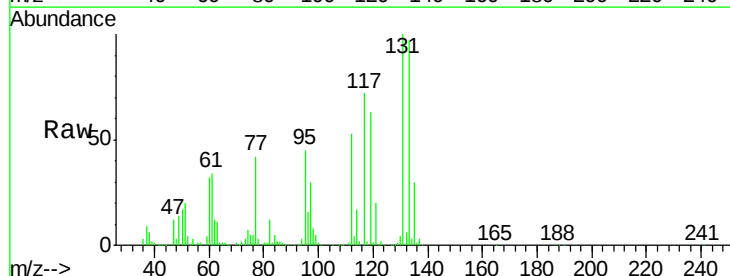
Manual Integrations
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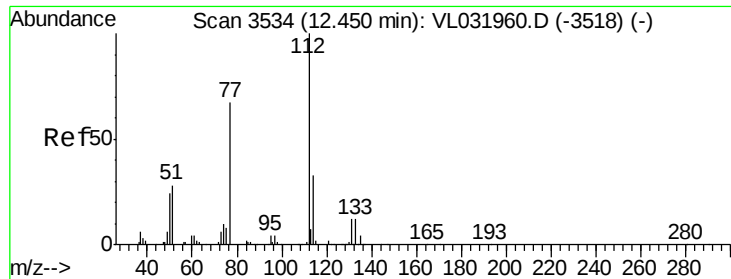
MMDadoda
5/4/2018 5:00:54 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 8.82 ppbv
RT: 12.43 min Scan# 3527
Delta R.T. -0.00 min
Lab File: VL031960.D
Acq: 3 May 2018 11:24

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.3	76.1	114.1
119	55.9	106.3	159.5#





#57

Chlorobenzene

Concen: 9.00 ppbv

RT: 12.45 min Scan# 3534

Delta R.T. -0.01 min

Lab File: VL031960.D

Acq: 3 May 2018 11:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:112 Resp: 2029767

Ion Ratio Lower Upper

112 100

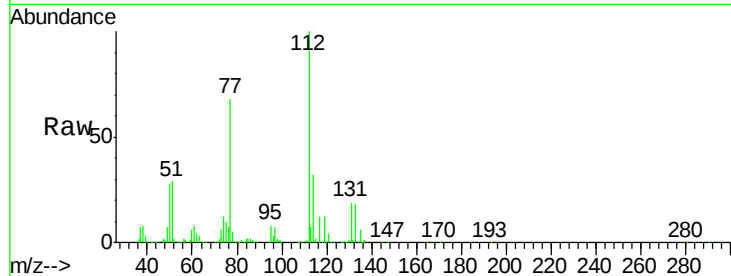
77 68.3 57.0 85.6

114 32.4 28.5 34.9

Manual Integrations
APPROVED

MMDadoda

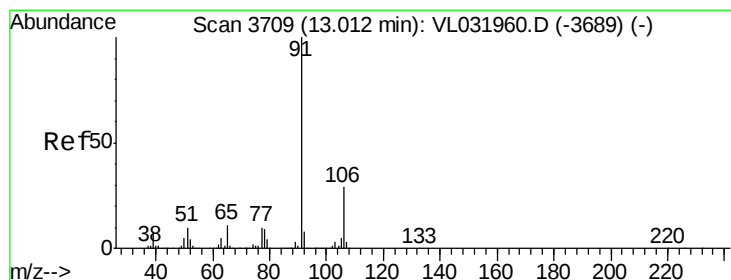
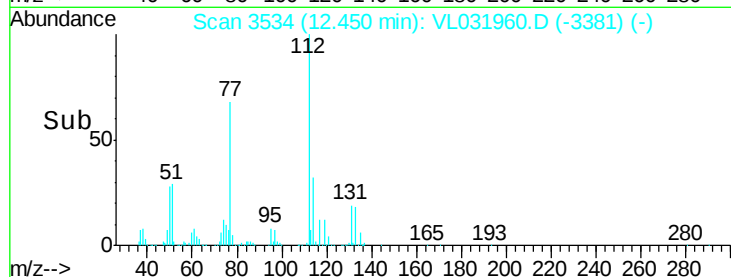
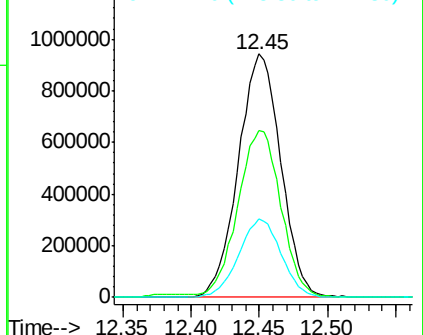
5/4/2018 5:00:54 PM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.11 ppbv

RT: 13.01 min Scan# 3709

Delta R.T. -0.00 min

Lab File: VL031960.D

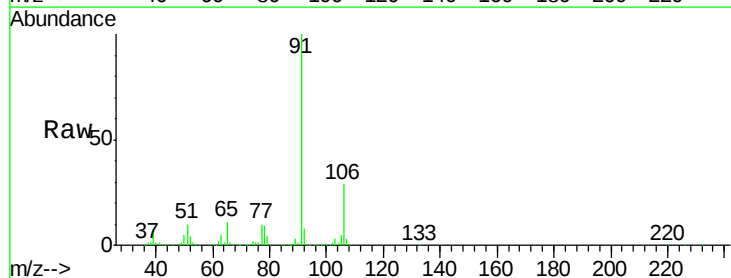
Acq: 3 May 2018 11:24

Tgt Ion: 91 Resp: 3735077

Ion Ratio Lower Upper

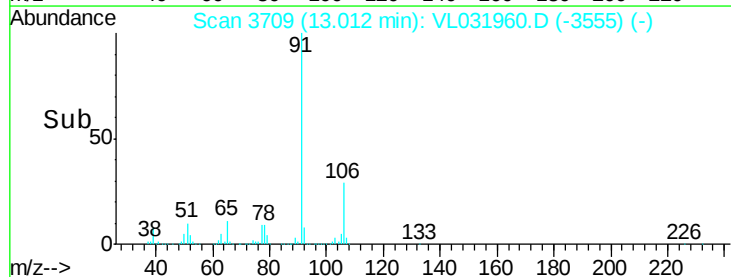
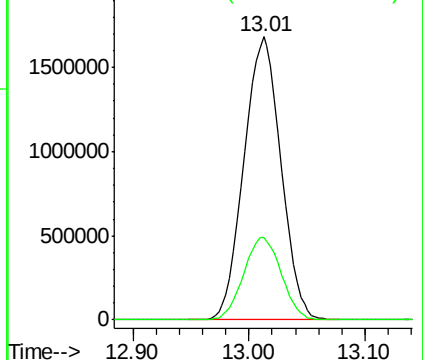
91 100

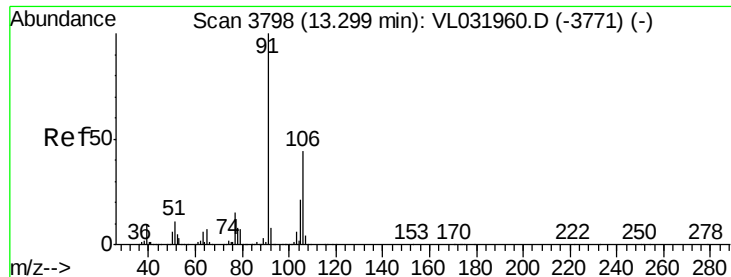
106 29.3 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





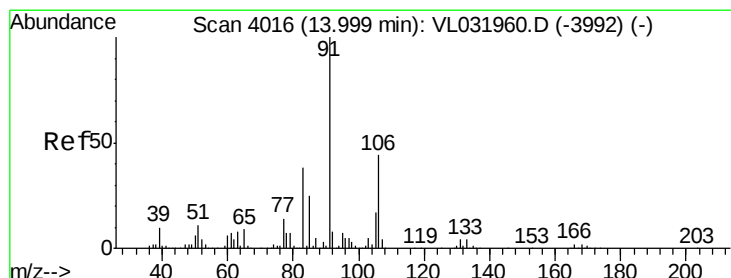
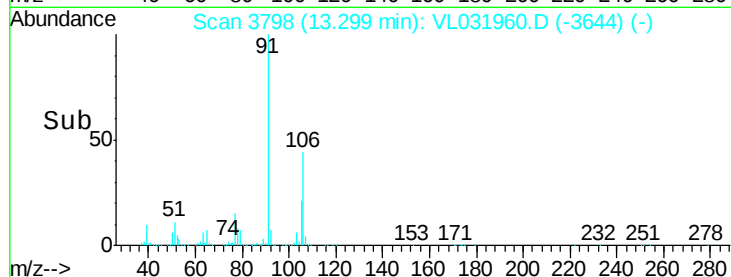
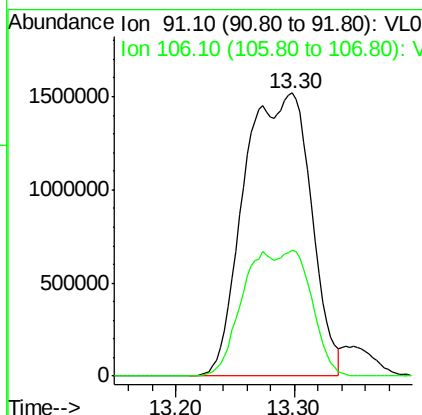
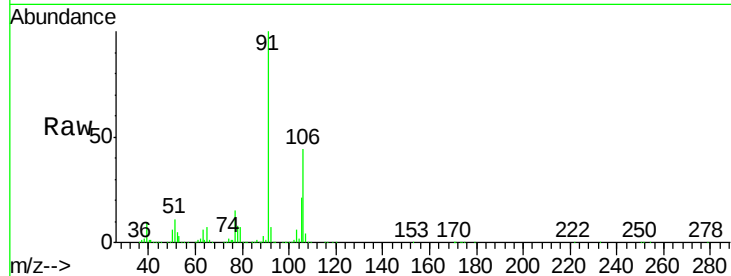
#59
m/p-Xylene
Concen: 18.64 ppbv m
RT: 13.30 min Scan# 3798
Delta R.T. -0.00 min
Lab File: VL031960.D
Acq: 3 May 2018 11:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion: 91 Resp: 5979689
Ion Ratio Lower Upper
91 100
106 44.9 35.5 53.3

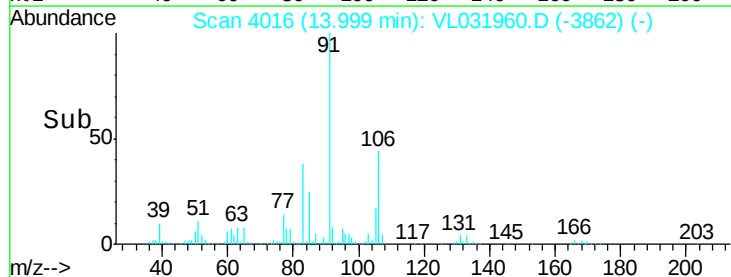
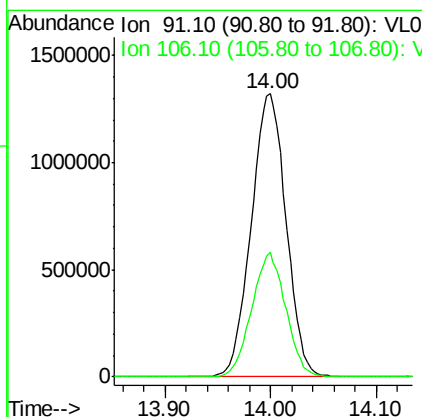
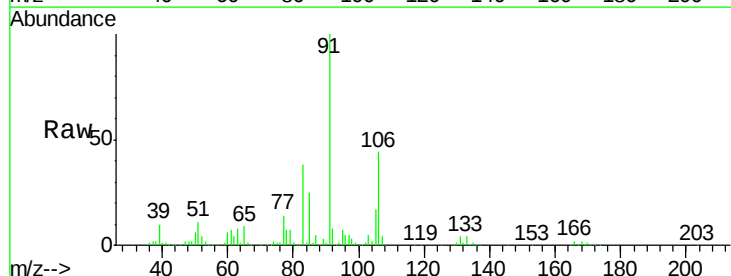
Manual Integrations
APPROVED

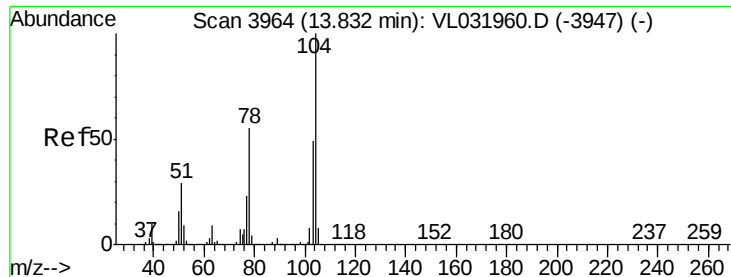
MMDadoda
5/4/2018 5:00:54 PM



#60
o-Xylene
Concen: 9.47 ppbv
RT: 14.00 min Scan# 4016
Delta R.T. -0.00 min
Lab File: VL031960.D
Acq: 3 May 2018 11:24

Tgt Ion: 91 Resp: 3036769
Ion Ratio Lower Upper
91 100
106 43.0 21.3 63.9





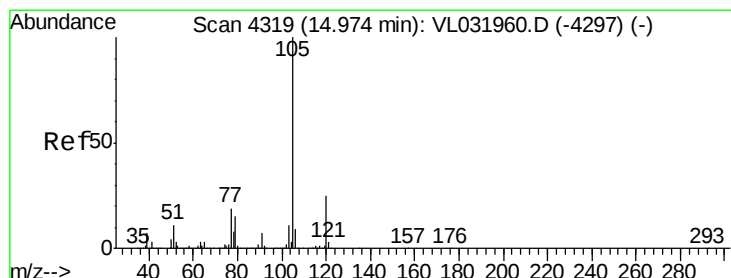
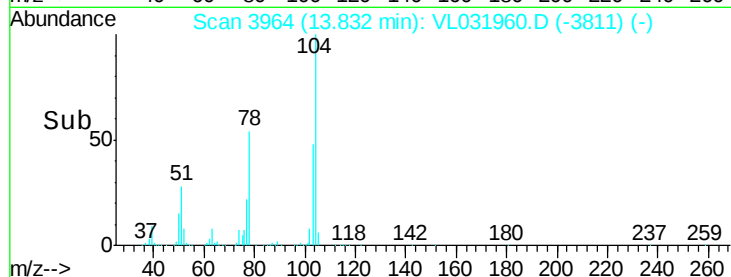
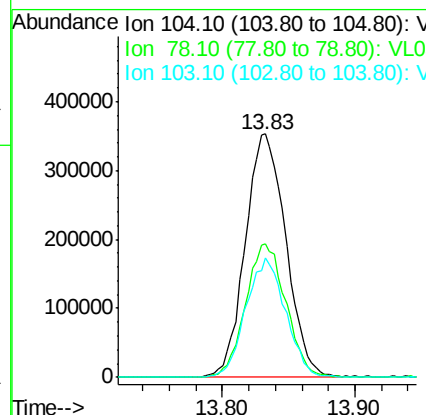
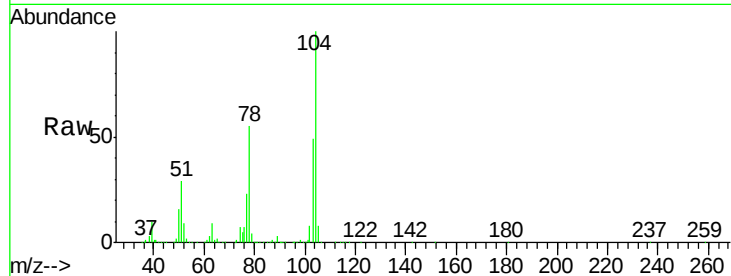
#61
Stvrene
Concen: 12.30 ppbv
RT: 13.83 min Scan# 3964
Delta R.T. -0.01 min
Lab File: VL031960.D
Acq: 3 May 2018 11:24

Instrument :
MSVOA_L
ClientSampleId :
VSTDICCC010

Tot Ion	Ratio	Resp	Lower	Upper
104	100	750863		
78	54.8		44.4	66.6
103	48.0		37.9	56.9

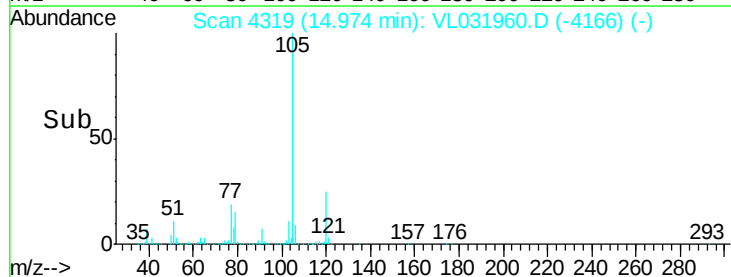
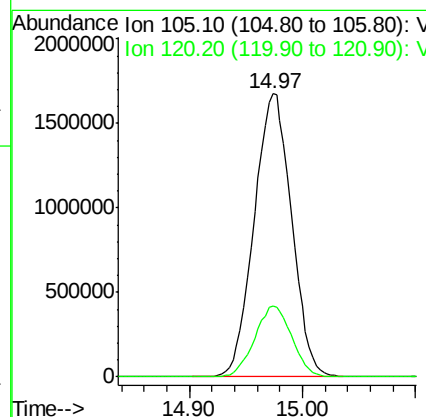
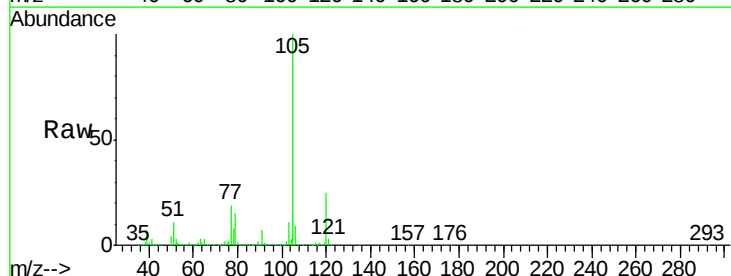
Manual Integrations
APPROVED

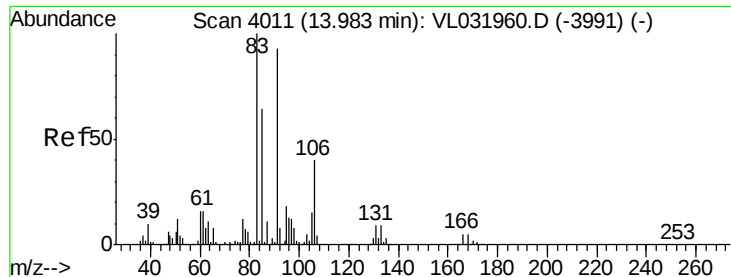
MMDadoda
5/4/2018 5:00:54 PM



#62
Isopropylbenzene
Concen: 9.36 ppbv
RT: 14.97 min Scan# 4319
Delta R.T. -0.01 min
Lab File: VL031960.D
Acq: 3 May 2018 11:24

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	3853132		
120	24.9		19.4	29.2





#63

1,1,2,2-Tetrachloroethane

Concen: 8.06 ppbv

RT: 13.98 min Scan# 4011

Delta R.T. -0.01 min

Lab File: VL031960.D

Acq: 3 May 2018 11:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 83 Resp: 1987436

Ion Ratio Lower Upper

83 100

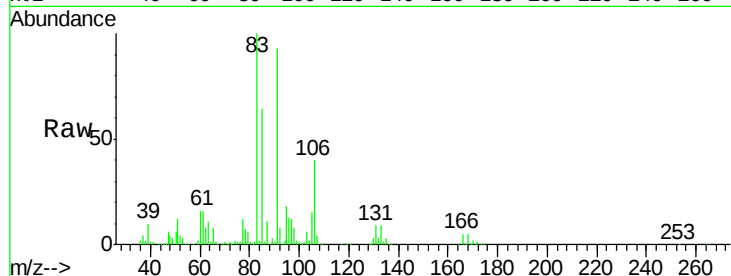
131 9.8 4.9 14.6

85 65.4 32.2 96.6

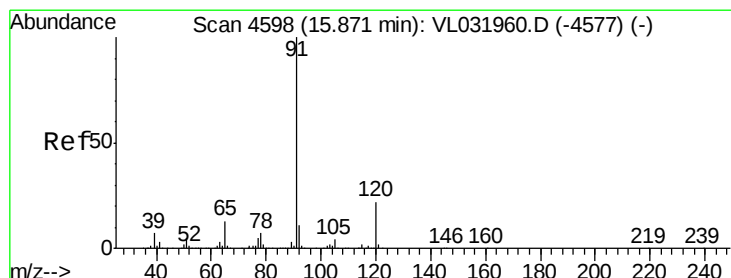
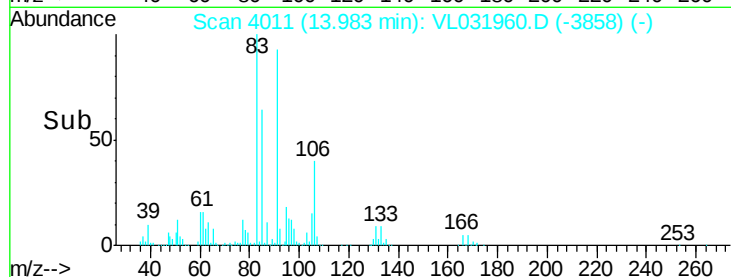
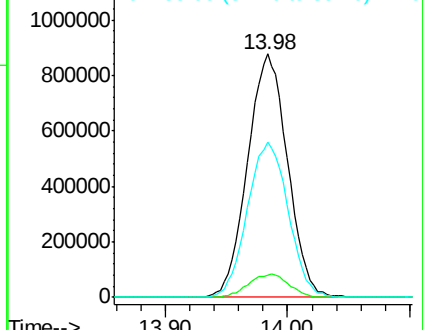
Manual Integrations
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5/4/2018 5:00:54 PM



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: 9.66 ppbv

RT: 15.87 min Scan# 4598

Delta R.T. -0.01 min

Lab File: VL031960.D

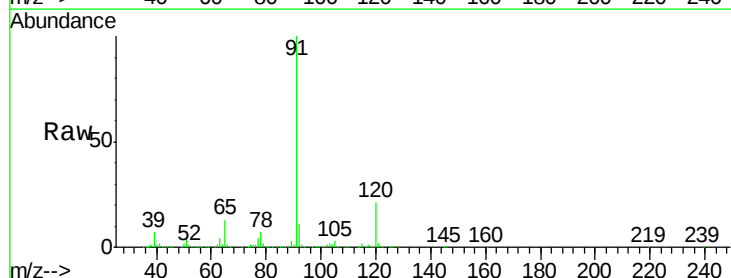
Acq: 3 May 2018 11:24

Tgt Ion:120 Resp: 966654

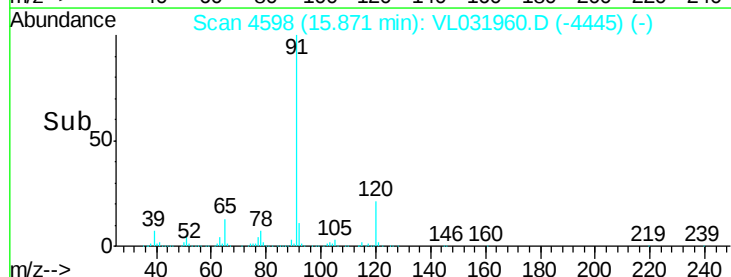
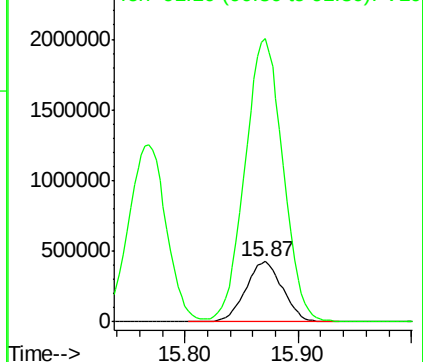
Ion Ratio Lower Upper

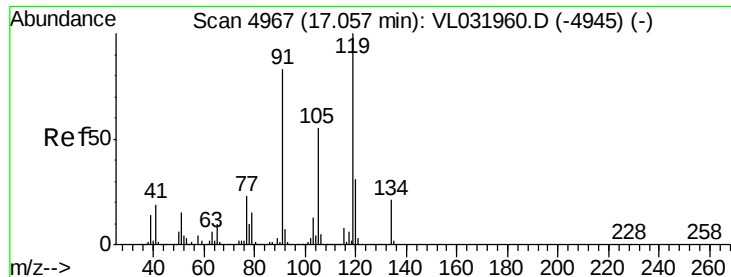
120 100

91 485.8 393.7 590.5



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





#65

tert-Butylbenzene

Concen: 9.53 ppbv

RT: 17.06 min Scan# 4967

Delta R.T. -0.00 min

Lab File: VL031960.D

Acq: 3 May 2018 11:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:119 Resp: 3376022

Ion Ratio Lower Upper

119 100

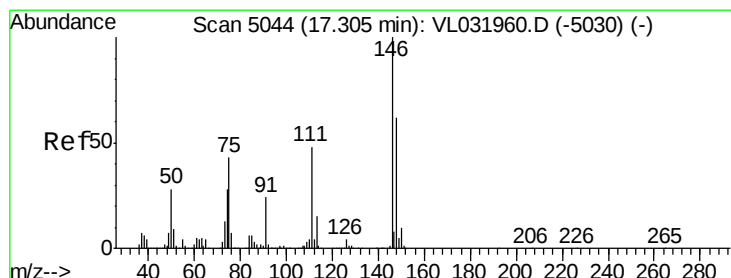
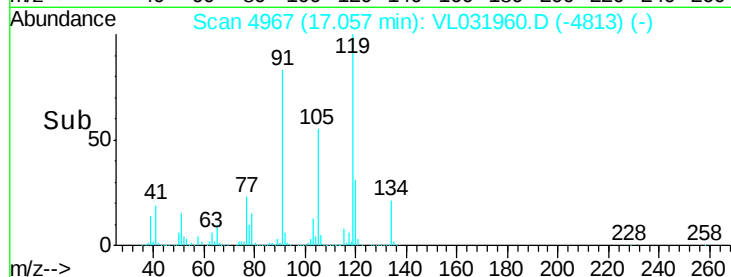
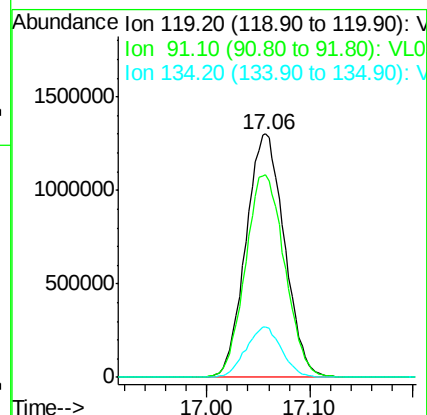
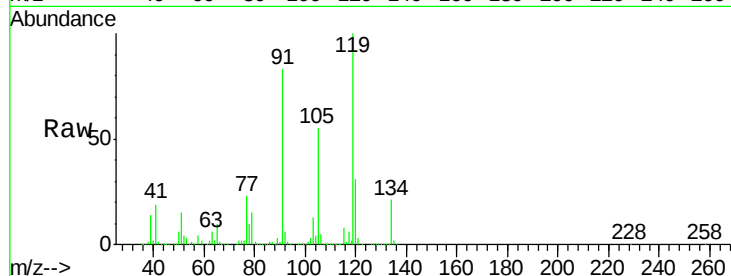
91 85.1 69.4 104.0

134 19.2 15.4 23.2

Manual Integrations
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#66

Benzyl Chloride

Concen: 10.33 ppbv

RT: 17.30 min Scan# 5044

Delta R.T. -0.00 min

Lab File: VL031960.D

Acq: 3 May 2018 11:24

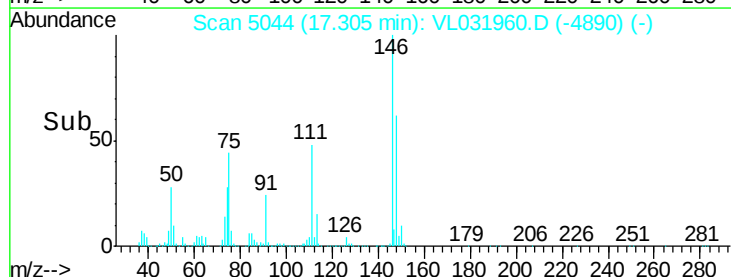
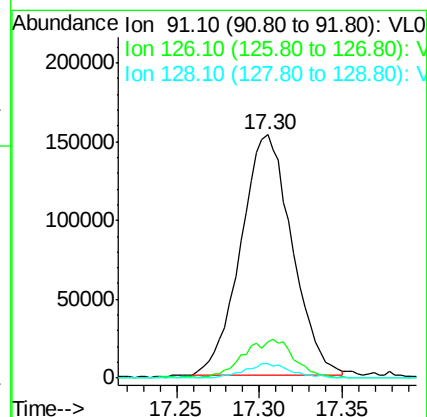
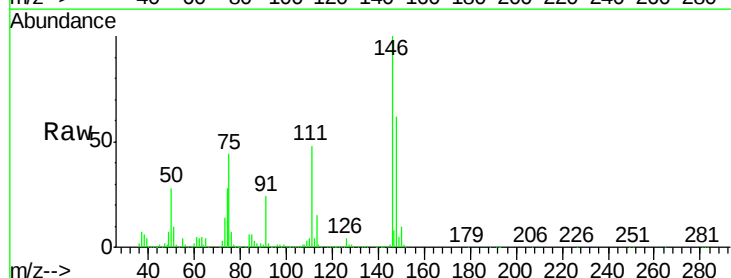
Tgt Ion: 91 Resp: 329688

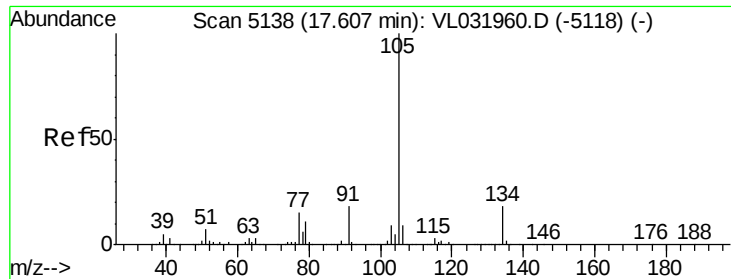
Ion Ratio Lower Upper

91 100

126 16.7 12.6 19.0

128 5.7 4.0 6.0





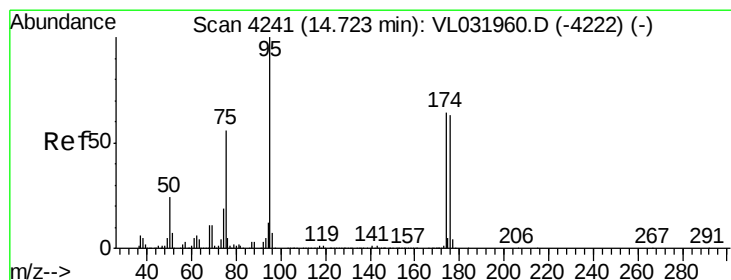
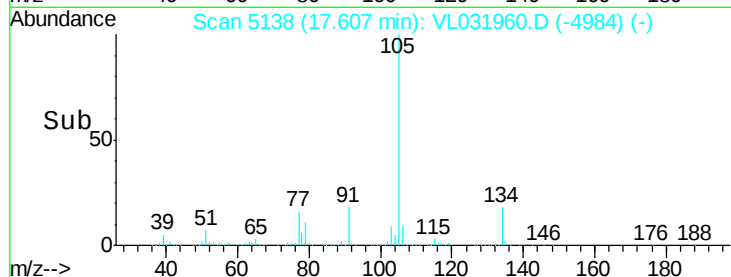
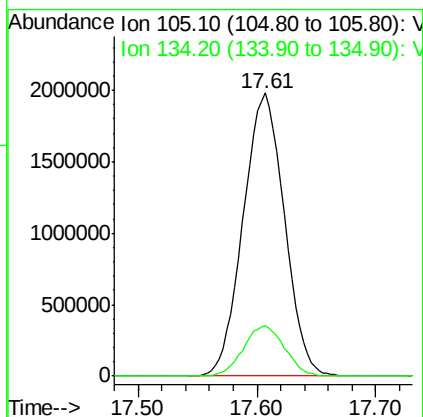
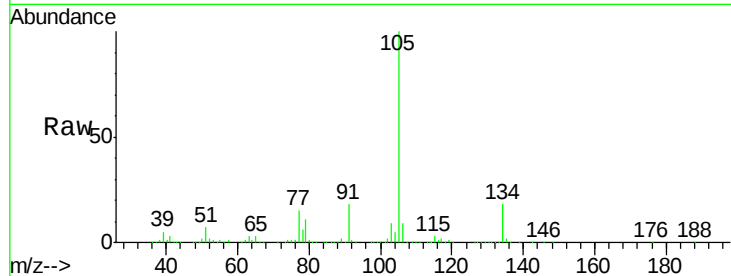
#67
 sec-Butylbenzene
 Concen: 9.32 ppbv
 RT: 17.61 min Scan# 5138
 Delta R.T. -0.00 min
 Lab File: VL031960.D
 Acq: 3 May 2018 11:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion:105 Resp: 4754400
 Ion Ratio Lower Upper
 105 100
 134 17.8 14.2 21.2

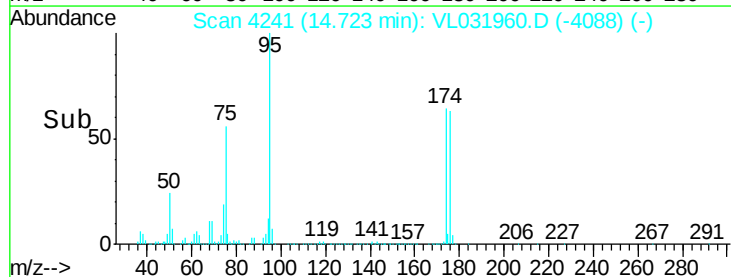
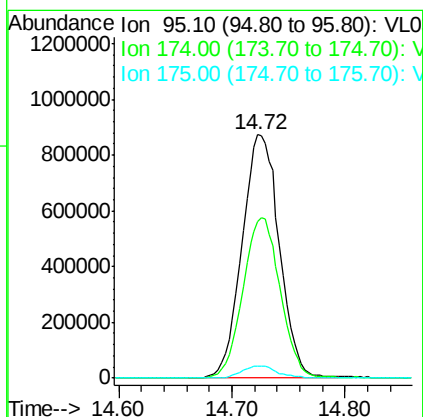
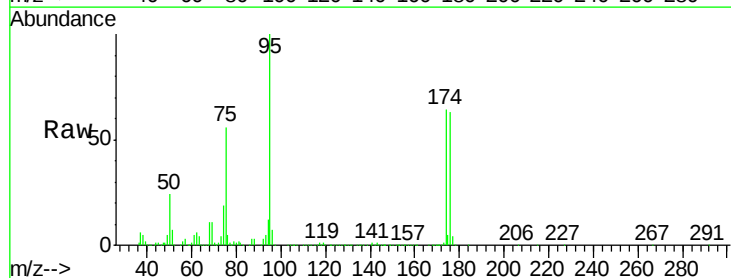
Manual Integrations
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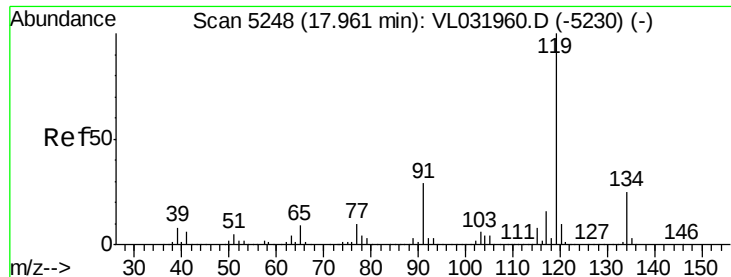
MMDadoda
 5/4/2018 5:00:54 PM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.35 ppbv
 RT: 14.72 min Scan# 4241
 Delta R.T. -0.01 min
 Lab File: VL031960.D
 Acq: 3 May 2018 11:24

Tgt Ion: 95 Resp: 1998659
 Ion Ratio Lower Upper
 95 100
 174 66.3 52.3 78.5
 175 4.9 3.9 5.9





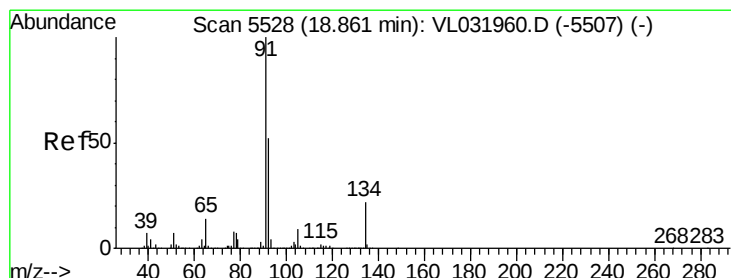
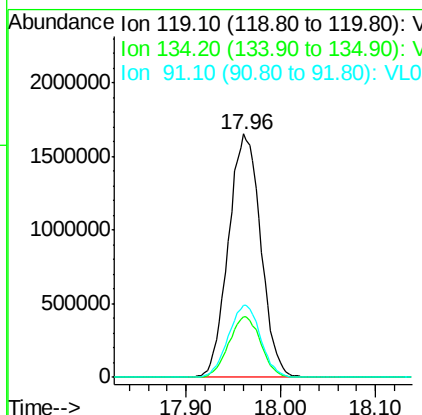
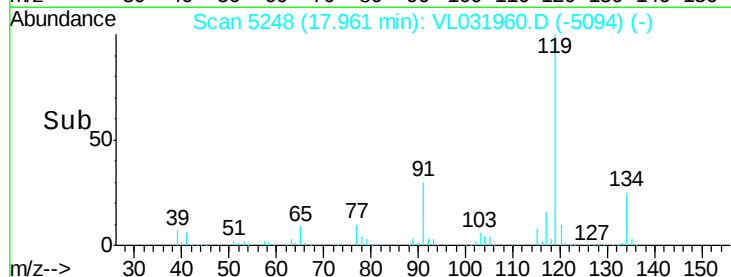
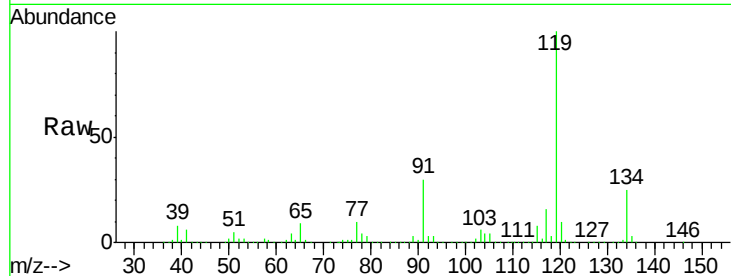
#69
 p-Isopropyltoluene
 Concen: 9.91 ppbv
 RT: 17.96 min Scan# 5248
 Delta R.T. -0.00 min
 Lab File: VL031960.D
 Acq: 3 May 2018 11:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.8	20.0	30.0
91	29.7	24.9	37.3

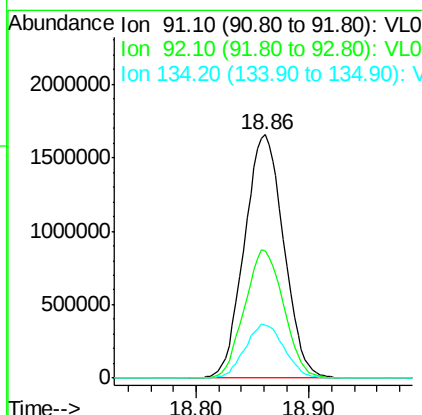
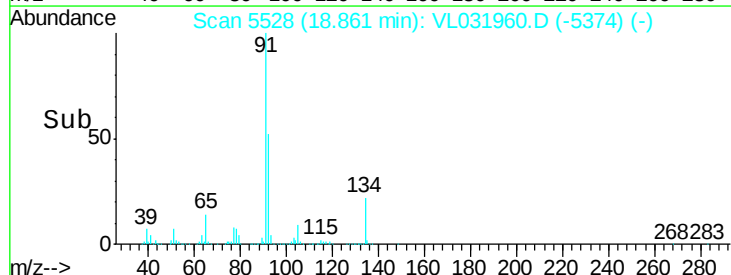
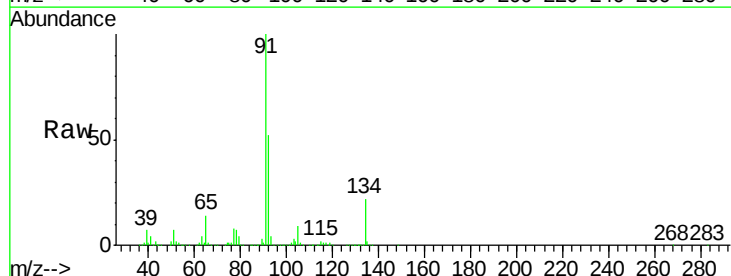
Manual Integrations
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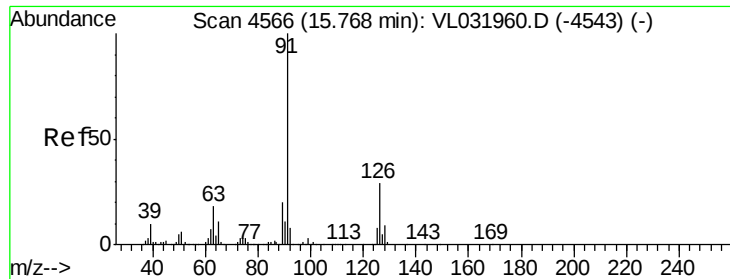
MMDadoda
 5/4/2018 5:00:54 PM



#70
 n-Butylbenzene
 Concen: 9.72 ppbv
 RT: 18.86 min Scan# 5528
 Delta R.T. -0.00 min
 Lab File: VL031960.D
 Acq: 3 May 2018 11:24

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.3	42.2	63.4
134	22.0	17.4	26.0





#71

2-Chlorotoluene

Concen: 9.75 ppbv

RT: 15.77 min Scan# 4566

Delta R.T. -0.00 min

Lab File: VL031960.D

Acq: 3 May 2018 11:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion: 91 Resp: 2901540

Ion Ratio Lower Upper

91 100

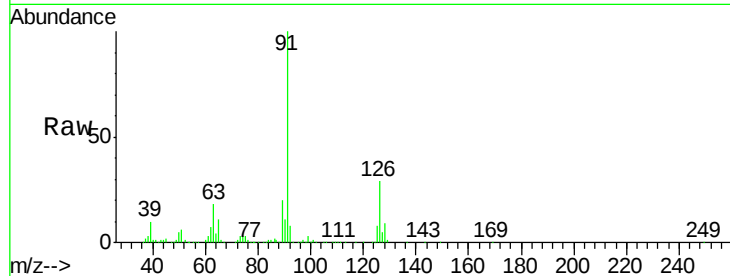
126 29.5 11.6 46.2

Manual Integrations

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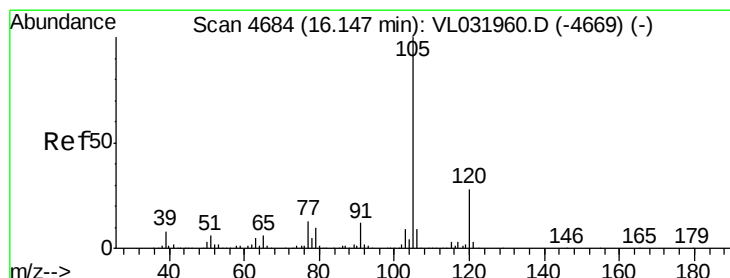
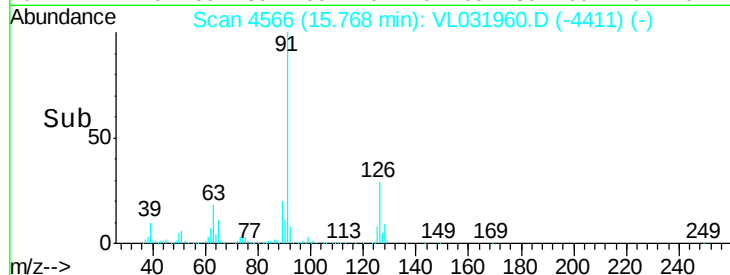
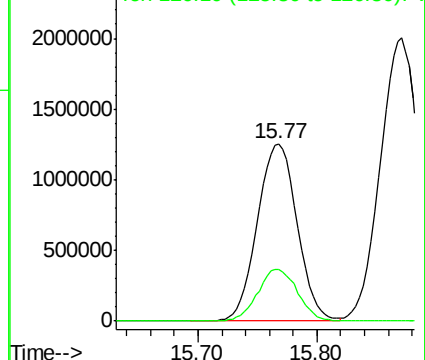
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 9.81 ppbv

RT: 16.15 min Scan# 4684

Delta R.T. -0.00 min

Lab File: VL031960.D

Acq: 3 May 2018 11:24

Tgt Ion:105 Resp: 3214010

Ion Ratio Lower Upper

105 100

120 28.2 22.7 34.1

91 13.1 10.6 16.0

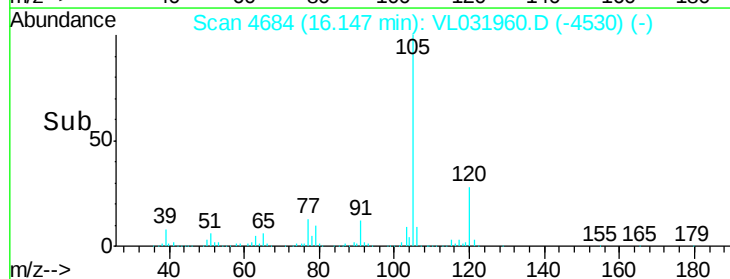
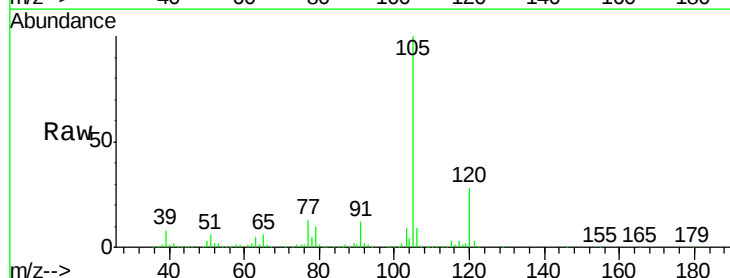
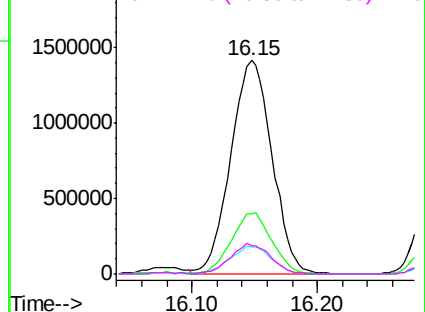
77 13.9 11.4 17.0

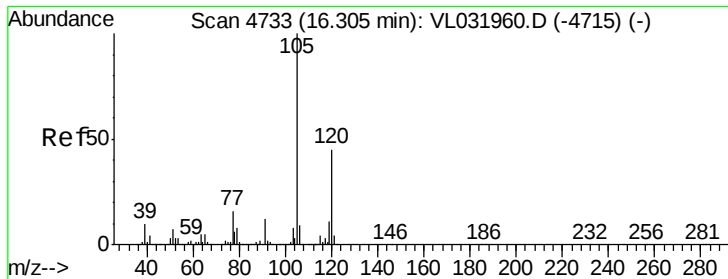
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 9.71 ppbv

RT: 16.30 min Scan# 4733

Delta R.T. -0.00 min

Lab File: VL031960.D

Acq: 3 May 2018 11:24

Instrument :

MSVOA_L

ClientSampleId :

VSTDICCC010

Tot Ion:105 Resp: 2913285

Ion Ratio Lower Upper

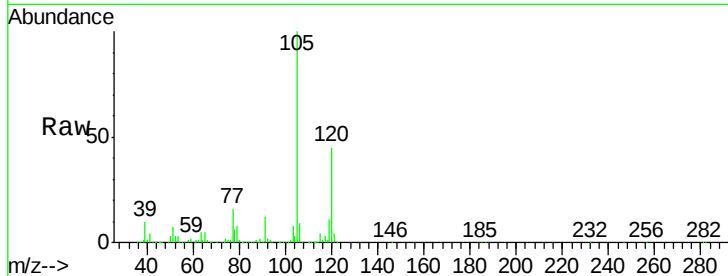
105 100

120 45.0 35.3 52.9

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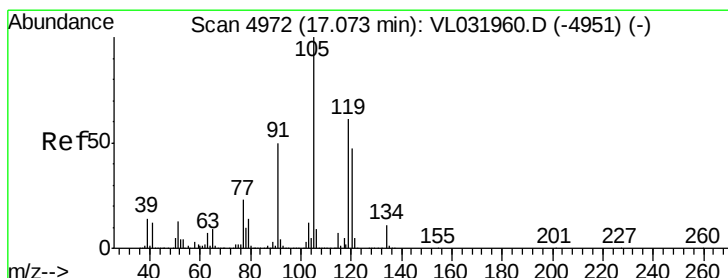
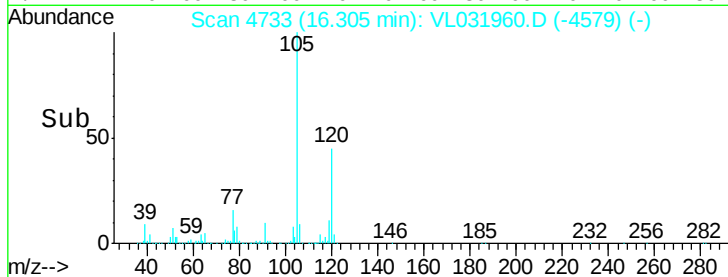
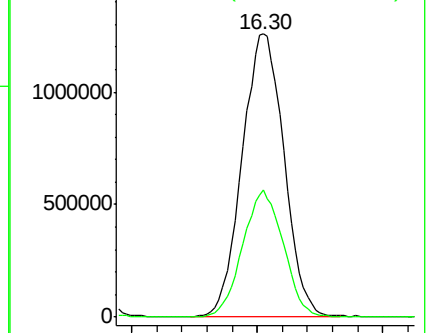
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 9.05 ppbv

RT: 17.07 min Scan# 4972

Delta R.T. -0.00 min

Lab File: VL031960.D

Acq: 3 May 2018 11:24

Tgt Ion:105 Resp: 3030769

Ion Ratio Lower Upper

105 100

120 47.2 37.0 55.4

91 50.6 43.0 64.4

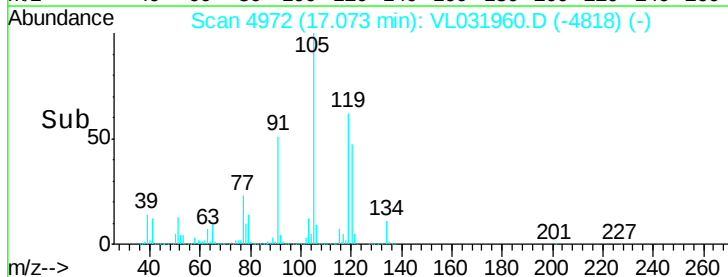
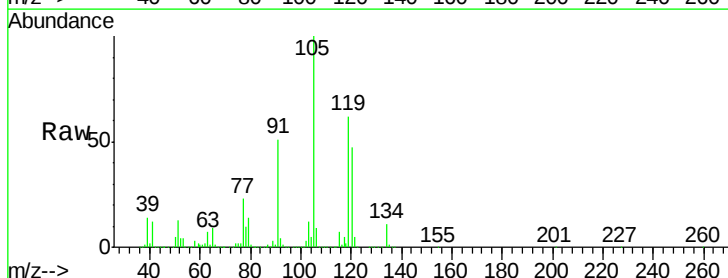
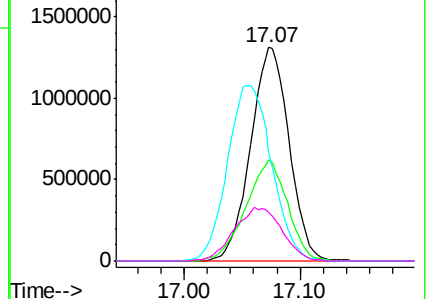
77 22.7 18.7 28.1

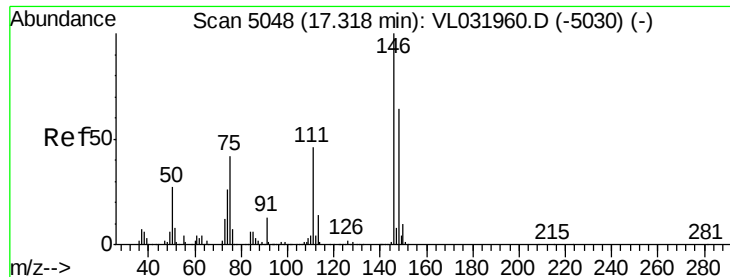
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





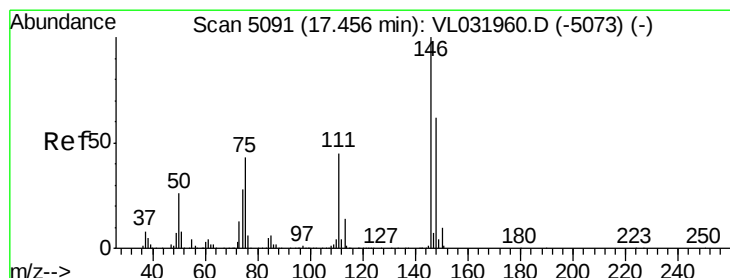
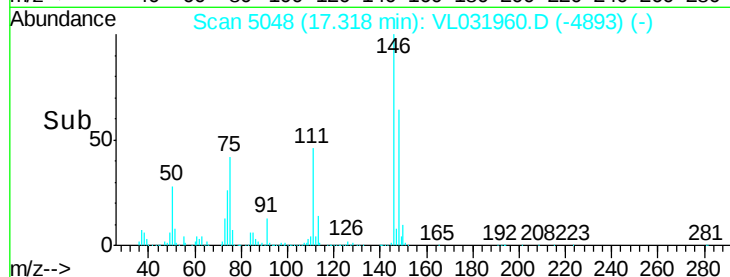
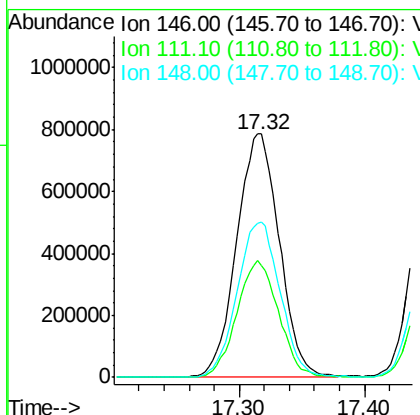
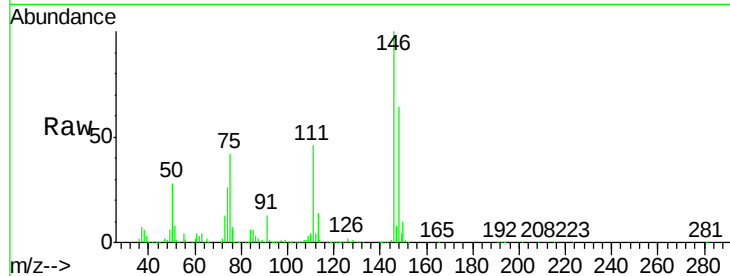
#75
 1,3-Dichlorobenzene
 Concen: 9.03 ppbv
 RT: 17.32 min Scan# 5048
 Delta R.T. -0.00 min
 Lab File: VL031960.D
 Acq: 3 May 2018 11:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.0	23.8	71.4
148	64.5	32.0	96.2

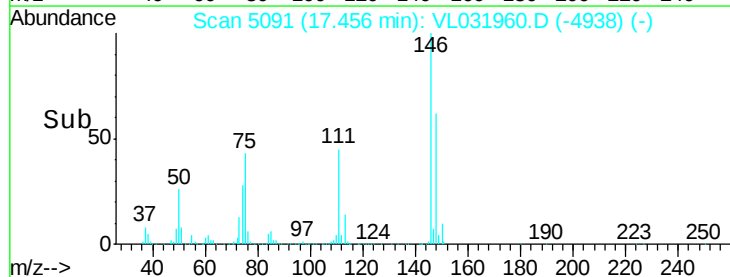
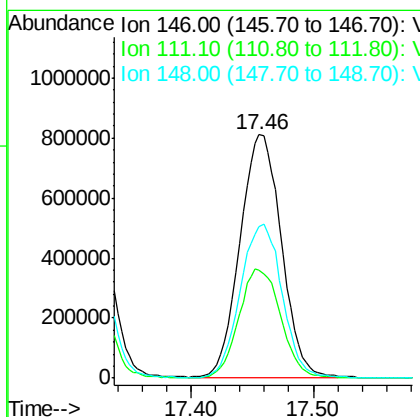
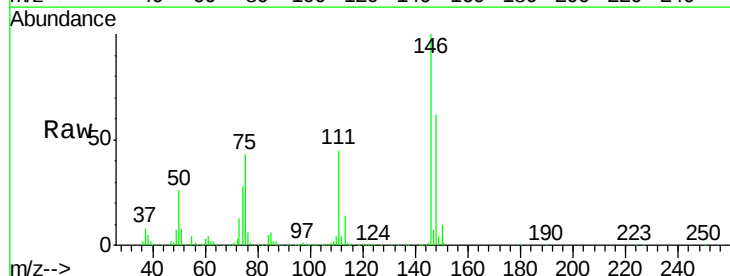
Manual Integrations
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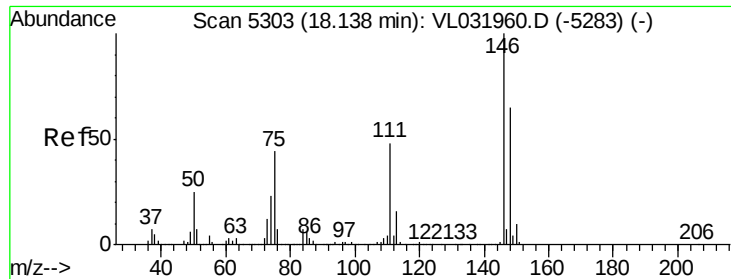
MMDadoda
 5/4/2018 5:00:54 PM



#76
 1,4-Dichlorobenzene
 Concen: 9.47 ppbv
 RT: 17.46 min Scan# 5091
 Delta R.T. -0.01 min
 Lab File: VL031960.D
 Acq: 3 May 2018 11:24

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.0	22.9	68.7
148	64.8	32.0	96.0





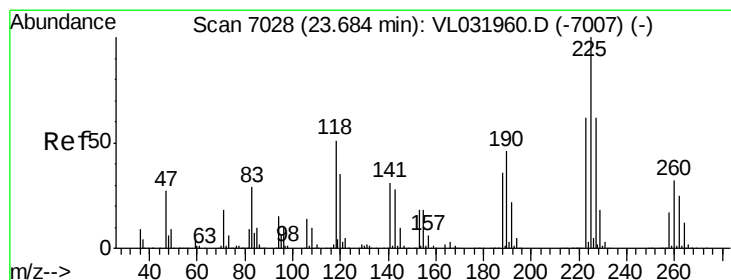
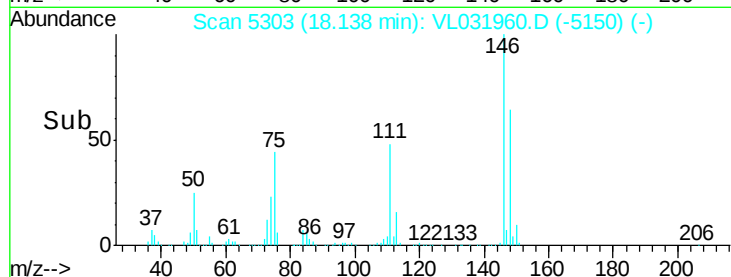
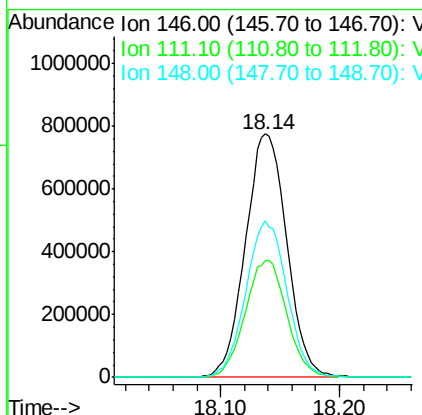
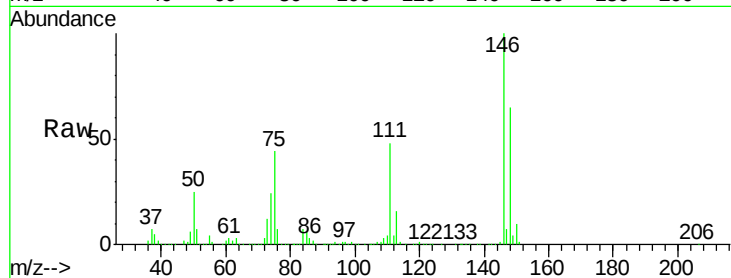
#77
 1,2-Dichlorobenzene
 Concen: 9.22 ppbv
 RT: 18.14 min Scan# 5303
 Delta R.T. -0.01 min
 Lab File: VL031960.D
 Acq: 3 May 2018 11:24

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.4	24.3	72.8
148	64.1	31.8	95.3

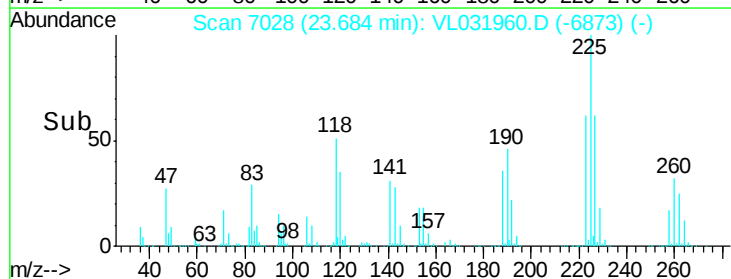
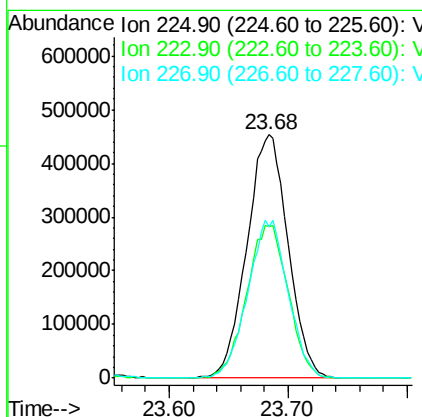
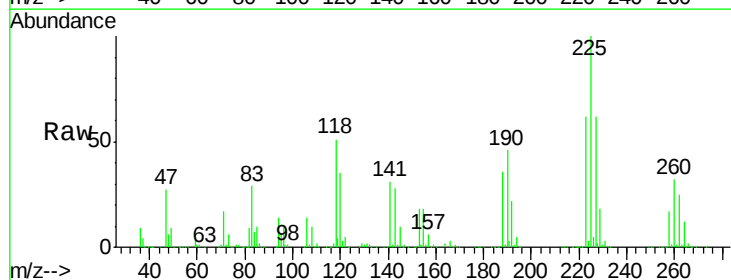
Manual Integrations
 APPROVED

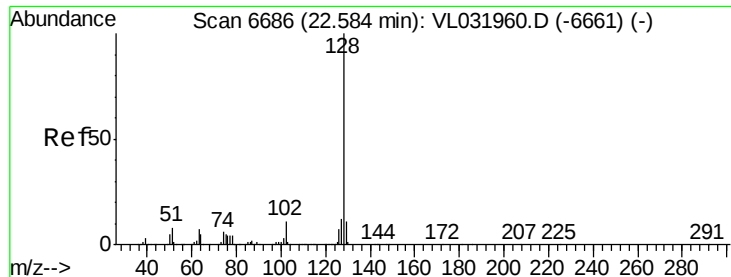
MMDadoda
 5/4/2018 5:00:54 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 13.98 ppbv
 RT: 23.68 min Scan# 7028
 Delta R.T. -0.00 min
 Lab File: VL031960.D
 Acq: 3 May 2018 11:24

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.5	50.6	76.0
227	63.6	52.2	78.4





#79

Naphthalene

Concen: 12.46 ppbv

RT: 22.58 min Scan# 6686

Delta R.T. -0.01 min

Lab File: VL031960.D

Acq: 3 May 2018 11:24

Instrument :

MSVOA_L

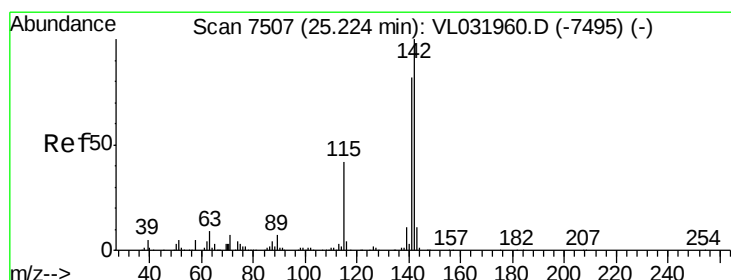
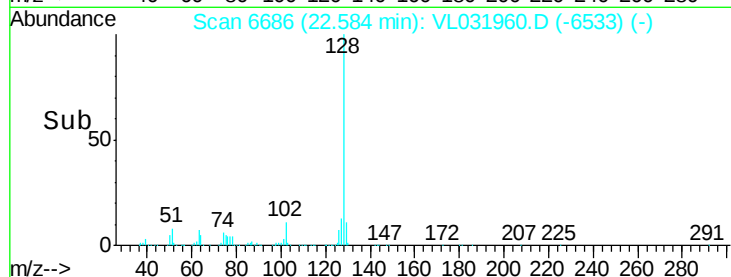
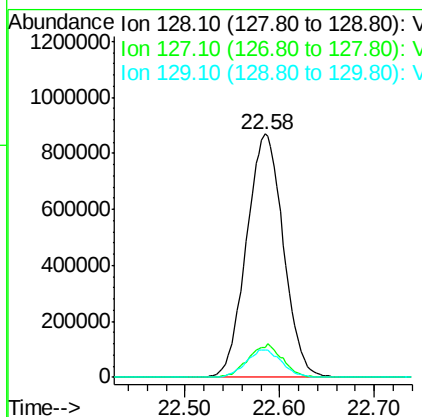
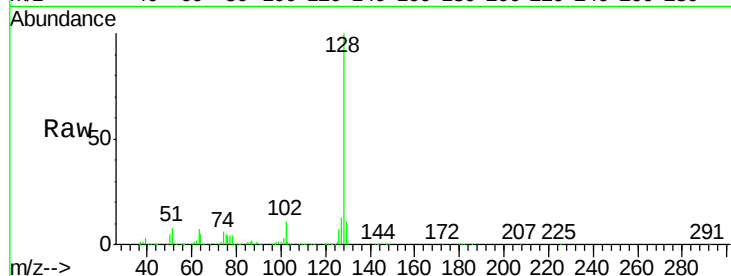
ClientSampleId :

VSTDICCC010

Tot Ion:	128	Resp:	2347093
Ion	Ratio	Lower	Upper
128	100		
127	12.5	10.2	15.4
129	11.2	9.4	14.2

Manual Integrations
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5/4/2018 5:00:54 PM



#80

Naphthalene, 2-methyl-

Concen: 23.27 ppbv

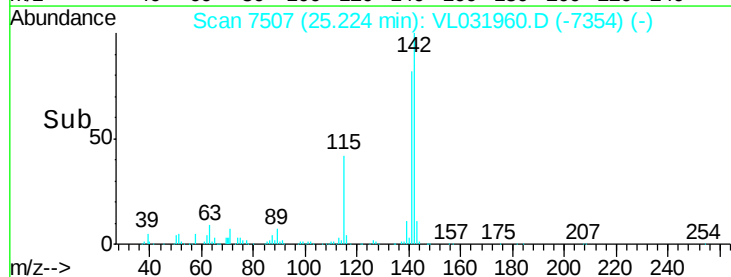
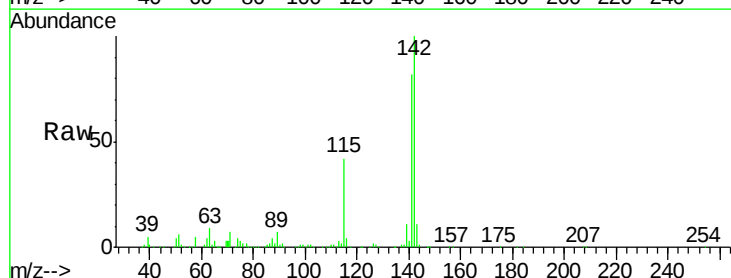
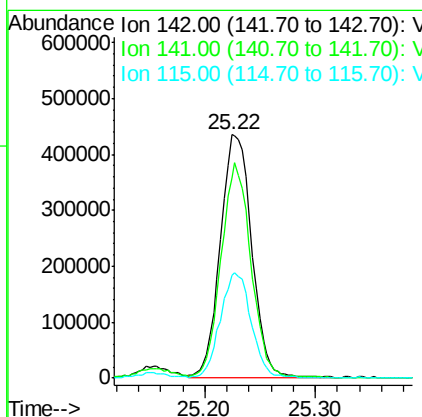
RT: 25.22 min Scan# 7507

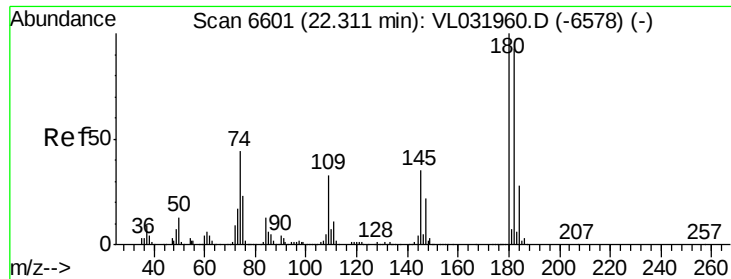
Delta R.T. -0.01 min

Lab File: VL031960.D

Acq: 3 May 2018 11:24

Tgt Ion:	142	Resp:	856165
Ion	Ratio	Lower	Upper
142	100		
141	84.9	67.0	100.4
115	42.3	35.3	52.9





#81
 1,2,4-Trichlorobenzene
 Concen: 11.67 ppbv
 RT: 22.31 min Scan# 6601
 Delta R.T. -0.00 min
 Lab File: VL031960.D
 Acq: 3 May 2018 11:24

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.7	76.3	114.5
184	30.0	24.2	36.2

Manual Integrations
 APPROVED

MMDadoda
 5/4/2018 5:00:54 PM

