

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081518\
 Data File : VL032354.D
 Acq On : 15 Aug 2018 13:56
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 8/17/2018 2:06:33 PM

Quant Time: Aug 15 14:36:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Aug 15 2018
 QLast Update : Wed Aug 15 11:44:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.82	49	2389700	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.36	114	5079240	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.31	117	5040209m	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.65	95	3724387	9.52	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.11	85	2867732	9.95	ppbv	96
3) Chlorodifluoromethane	3.05	51	2991945	12.52	ppbv	99
4) Chloromethane	3.21	50	1817080	12.56	ppbv	99
5) Vinyl Chloride	3.33	62	1730344	13.16	ppbv	98
6) Bromomethane	3.56	94	960545	13.30	ppbv	94
7) Chloroethane	3.64	64	613858	13.13	ppbv	96
8) Dichlorotetrafluoroethane	3.26	85	3362125	11.55	ppbv	99
9) Propene	3.07	41	1480938	13.78	ppbv	99
10) Heptane	8.31	43	4407089	11.69	ppbv	99
11) Trichlorofluoromethane	4.05	101	3497694	12.70	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.60	101	2358669	12.55	ppbv	100
13) Ethanol	3.69	45	289194	9.37	ppbv	99
14) Bromoethene	3.83	108	1074964	13.03	ppbv	99
15) Acetone	3.95	43	2781466	12.35	ppbv	99
16) 1,3-Butadiene	3.40	39	1387380	11.88	ppbv	92
17) tert-Butyl alcohol	4.41	59	481194	6.72	ppbv	98
18) 1,1-Dichloroethene	4.40	96	1162863	13.33	ppbv	99
19) Isopropyl Alcohol	4.07	45	1962712	13.06	ppbv	99
20) Methylene Chloride	4.46	84	1027438	11.35	ppbv	98
21) Allyl Chloride	4.53	41	2129301	13.86	ppbv	99
22) trans-1,2-Dichloroethene	5.02	96	1162112	13.82	ppbv	98
23) Vinyl Acetate	5.21	43	5271408	13.05	ppbv	99
24) 1,1-Dichloroethane	5.15	63	3599036	12.42	ppbv	100
25) Ethyl Acetate	5.83	43	6875866	13.60	ppbv	99
26) Hexane	5.84	57	3145401	13.75	ppbv	99
27) Carbon Disulfide	4.67	76	3013159	14.49	ppbv	99
28) Methyl tert-Butyl Ether	5.17	73	3991118	12.90	ppbv	100
29) Chloroform	5.91	83	4320731	12.99	ppbv	99
30) Cyclohexane	7.31	84	2621823	14.69	ppbv	97
31) cis-1,2-Dichloroethene	5.70	61	3253919	15.35	ppbv	99
32) 1,1,1-Trichloroethane	6.68	97	4279855	14.54	ppbv	99
34) 2-Butanone	5.38	43	4921846	14.97	ppbv	99
35) Carbon Tetrachloride	7.20	117	4090508	14.18	ppbv	98
36) Benzene	7.07	78	5971956	13.34	ppbv	98
37) 1,2-Dichloroethane	6.48	62	3565527	13.78	ppbv	100
38) Trichloroethene	8.03	130	2011172	11.62	ppbv	94
39) 1,2-Dichloropropane	7.80	63	2512067	11.15	ppbv	98
40) 1,4-Dioxane	8.02	88	690778	10.44	ppbv	76
41) Tetrahydrofuran	6.21	42	2946868	15.85	ppbv	99
42) Bromodichloromethane	7.99	83	4708097	11.24	ppbv	99
43) Methyl Methacrylate	8.21	69	2715418	12.63	ppbv	98

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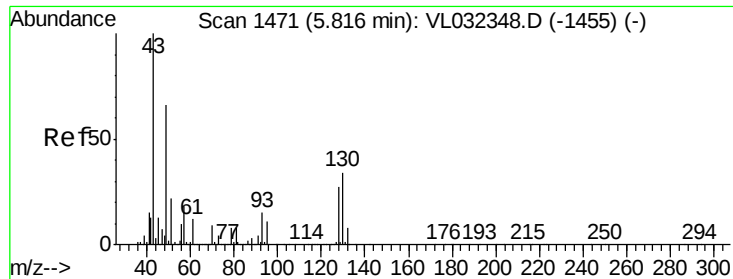
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Quant Time: Aug 15 14:36:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
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 QLast Update : Wed Aug 15 11:44:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.06	57	10522771	10.84	ppbv	99
45) t-1,3-Dichloropropene	9.49	75	3748033	15.05	ppbv	98
46) cis-1,3-Dichloropropene	8.90	75	4325203	14.18	ppbv	99
47) 1,1,2-Trichloroethane	9.68	97	2685088	12.26	ppbv	98
48) Dibromochloromethane	10.52	129	3838960	11.89	ppbv	100
49) Bromoform	13.28	173	3093607	11.64	ppbv	99
50) 4-Methyl-2-Pentanone	8.94	43	7318182	12.62	ppbv	99
51) 2-Hexanone	10.34	43	5560133	12.58	ppbv #	99
52) Tetrachloroethene	11.45	164	1773663	11.76	ppbv	98
53) Toluene	10.02	91	7323573	13.68	ppbv	99
54) 1,2-Dibromoethane	10.83	107	3646165	11.72	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.36	131	2649784	12.75	ppbv	97
57) Chlorobenzene	12.38	112	4795967	12.24	ppbv	97
58) Ethyl Benzene	12.94	91	8850739	14.01	ppbv	100
59) m/p-Xylene	13.22	91	14081127m	26.17	ppbv	
60) o-Xylene	13.93	91	6868751	13.02	ppbv	100
61) Styrene	13.76	104	5582018	14.38	ppbv	100
62) Isopropylbenzene	14.90	105	9828666	13.12	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.91	83	5188675	12.09	ppbv	100
64) n-propylbenzene	15.79	120	2648757	13.58	ppbv	95
65) tert-Butylbenzene	16.98	119	7988174	12.62	ppbv	100
66) Benzyl Chloride	17.23	91	5711627	15.14	ppbv	99
67) sec-Butylbenzene	17.53	105	11947691	12.60	ppbv	99
69) p-Isopropyltoluene	17.89	119	9609857	13.08	ppbv	99
70) n-Butylbenzene	18.79	91	10601506	12.50	ppbv	100
71) 2-Chlorotoluene	15.69	91	7918936	13.47	ppbv	99
72) 4-Ethyltoluene	16.08	105	8343661	14.11	ppbv	99
73) 1,3,5-Trimethylbenzene	16.23	105	7842943	13.48	ppbv	97
74) 1,2,4-Trimethylbenzene	17.00	105	7527785	12.27	ppbv	98
75) 1,3-Dichlorobenzene	17.24	146	4331508	12.19	ppbv	100
76) 1,4-Dichlorobenzene	17.38	146	4495466	13.19	ppbv	99
77) 1,2-Dichlorobenzene	18.07	146	4380750	12.55	ppbv	99
78) Hexachloro-1,3-Butadiene	23.61	225	1376111	11.21	ppbv	100
79) Naphthalene	22.49	128	8017867	15.06	ppbv	99
80) Naphthalene, 2-methyl-	25.17	142	3574200	16.97	ppbv	99
81) 1,2,4-Trichlorobenzene	22.22	180	3723932	14.00	ppbv	100

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.82 min Scan# 1472

Delta R.T. -0.02 min

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VSTDIC015

Tot Ion: 49 Resp: 2389700

Ion Ratio Lower Upper

49 100

128 40.1 20.2 60.6

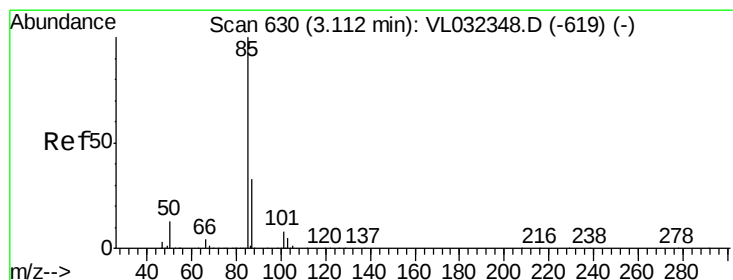
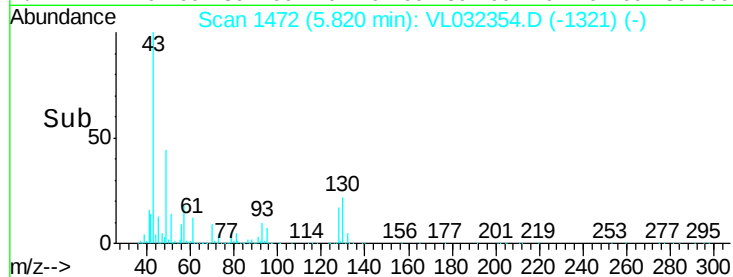
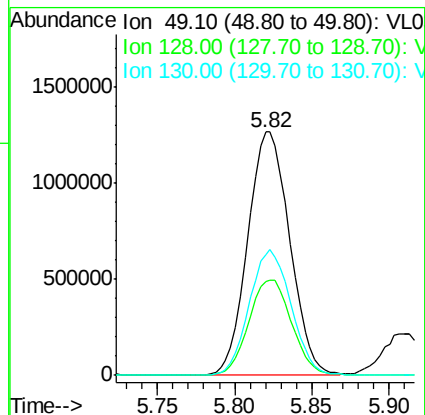
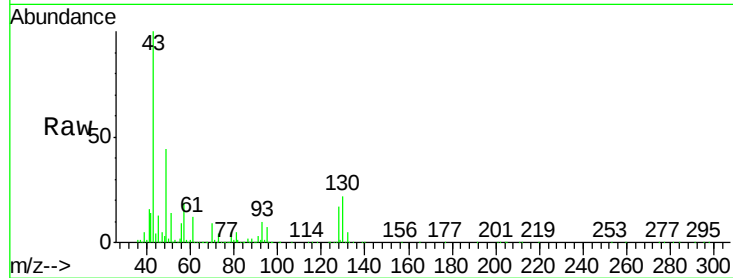
130 51.5 25.8 77.3

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#2

Dichlorodifluoromethane

Concen: 9.95 ppbv

RT: 3.11 min Scan# 630

Delta R.T. -0.01 min

Lab File: VL032354.D

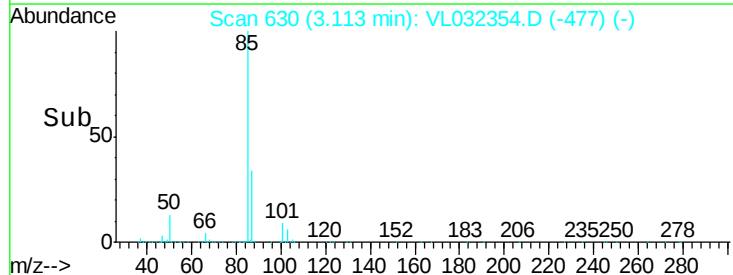
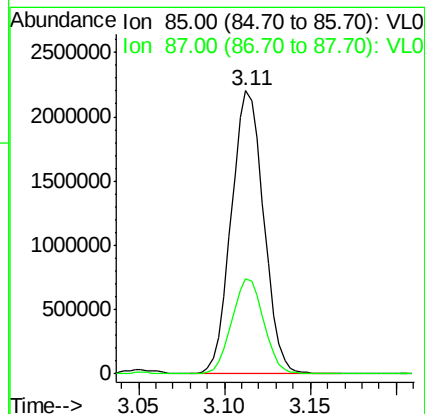
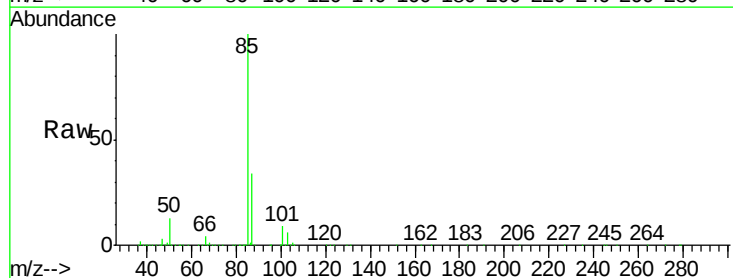
Acq: 15 Aug 2018 13:56

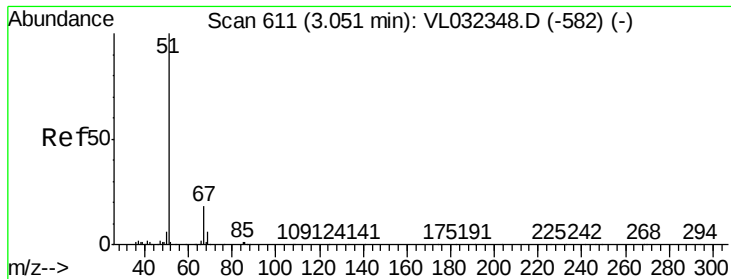
Tgt Ion: 85 Resp: 2867732

Ion Ratio Lower Upper

85 100

87 33.5 25.2 37.8





#3

Chlorodifluoromethane

Concen: 12.52 ppbv

RT: 3.05 min Scan# 611

Delta R.T. -0.01 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 51 Resp: 2991945

Ion Ratio Lower Upper

51 100

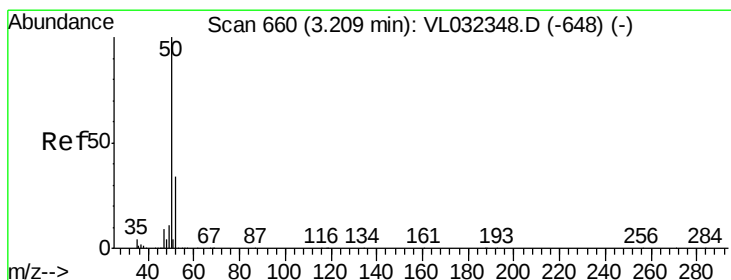
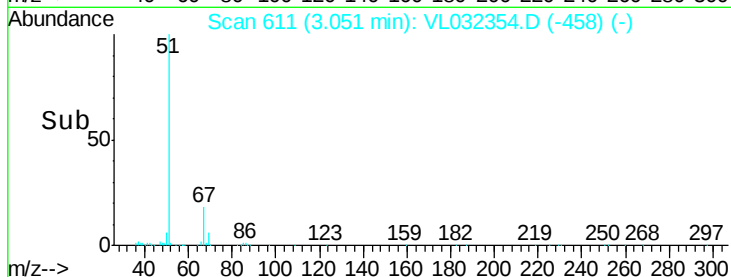
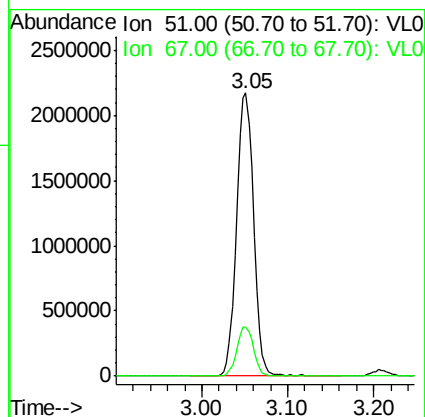
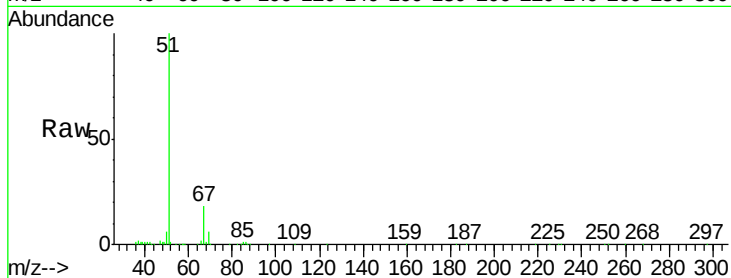
67 17.2 13.5 20.3

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#4

Chloromethane

Concen: 12.56 ppbv

RT: 3.21 min Scan# 660

Delta R.T. -0.01 min

Lab File: VL032354.D

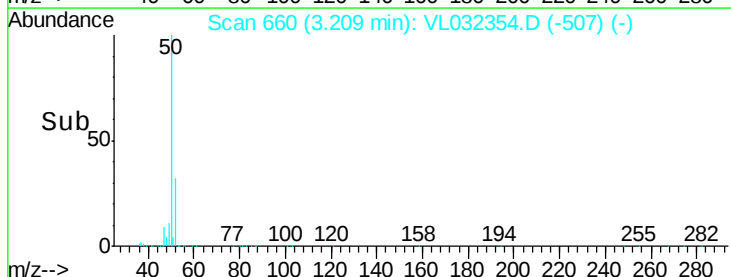
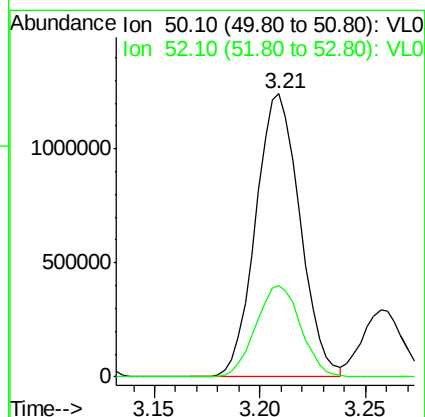
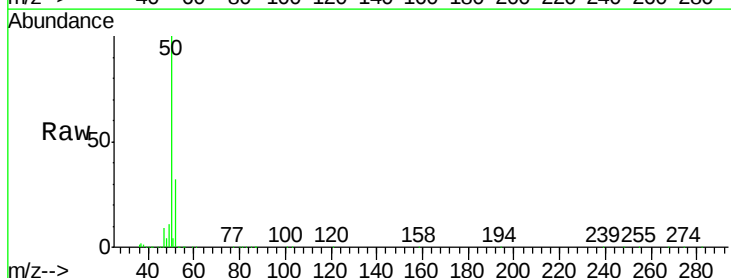
Acq: 15 Aug 2018 13:56

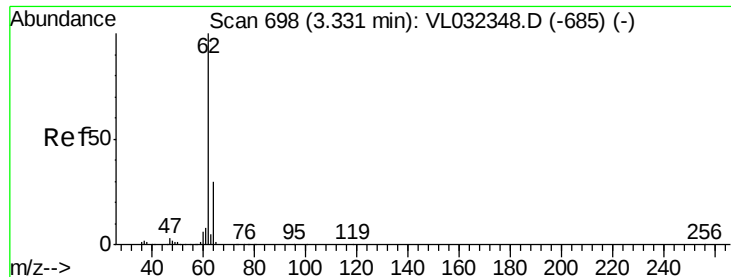
Tgt Ion: 50 Resp: 1817080

Ion Ratio Lower Upper

50 100

52 32.4 26.2 39.4





#5

Vinyl Chloride

Concen: 13.16 ppbv

RT: 3.33 min Scan# 698

Delta R.T. -0.01 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 1730344

Ion Ratio Lower Upper

62 100

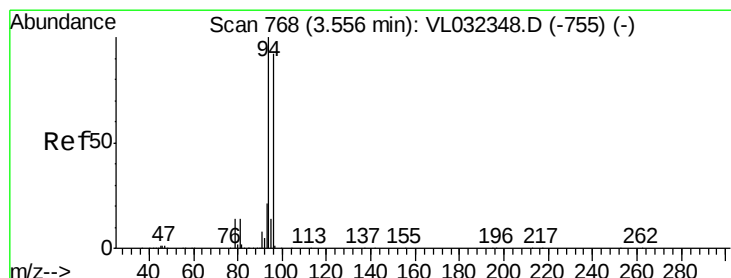
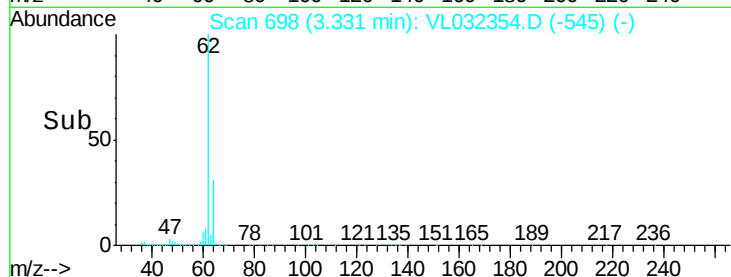
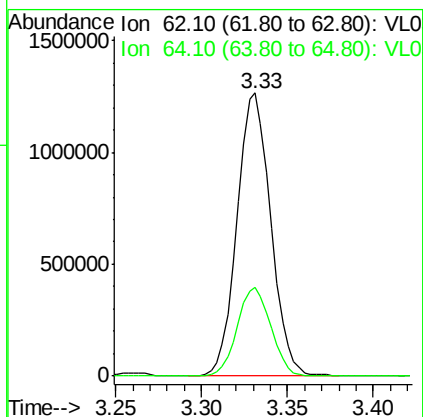
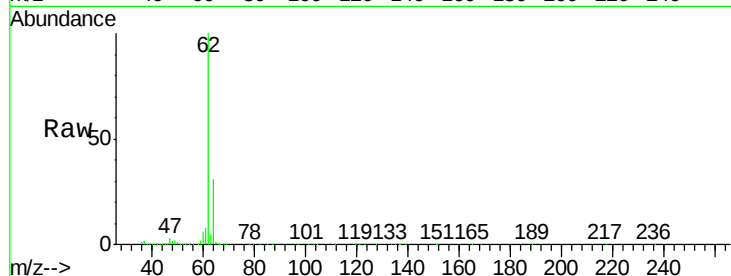
64 31.4 24.1 36.1

Manual Integrations

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#6

Bromomethane

Concen: 13.30 ppbv

RT: 3.56 min Scan# 768

Delta R.T. -0.01 min

Lab File: VL032354.D

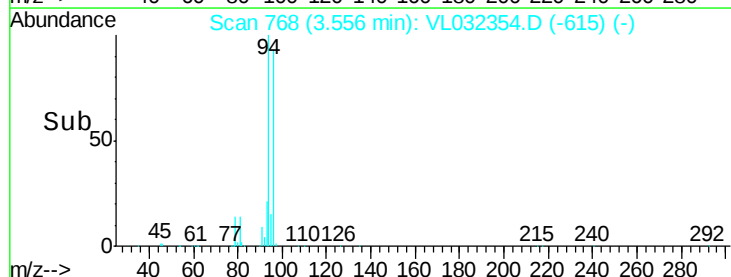
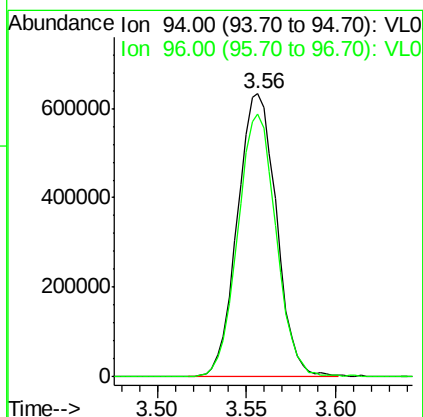
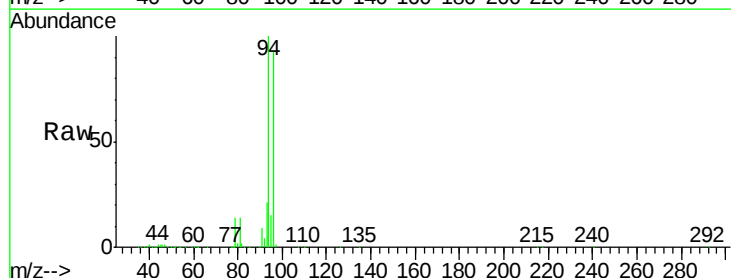
Acq: 15 Aug 2018 13:56

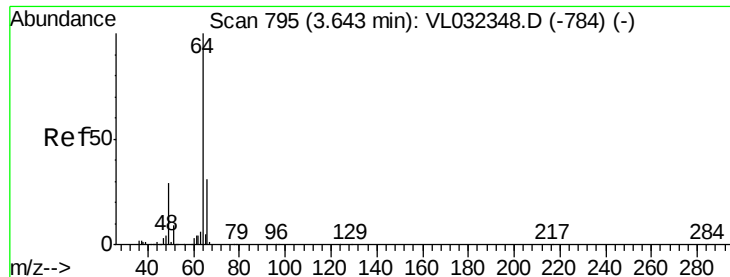
Tgt Ion: 94 Resp: 960545

Ion Ratio Lower Upper

94 100

96 93.0 70.2 105.4





#7

Chloroethane

Concen: 13.13 ppbv

RT: 3.64 min Scan# 795

Delta R.T. -0.01 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 613858

Ion Ratio Lower Upper

64 100

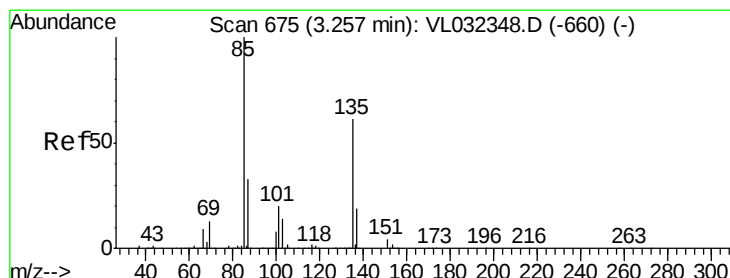
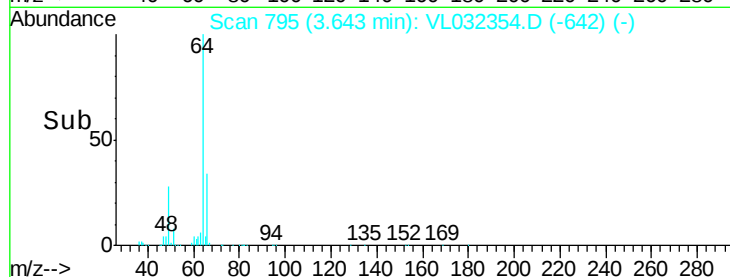
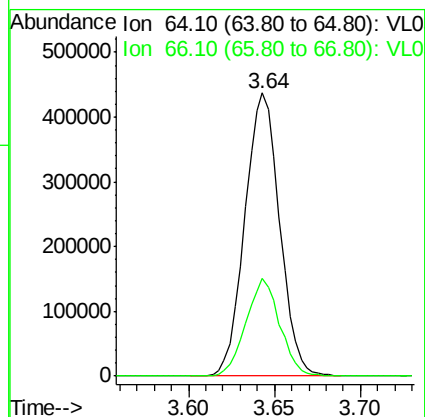
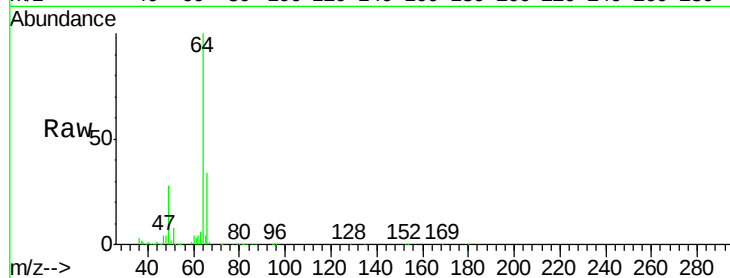
66 34.5 25.7 38.5

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 11.55 ppbv

RT: 3.26 min Scan# 675

Delta R.T. -0.01 min

Lab File: VL032354.D

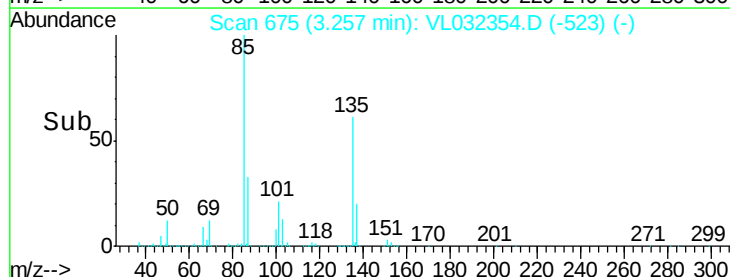
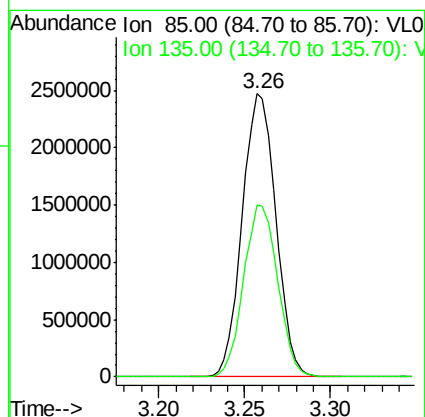
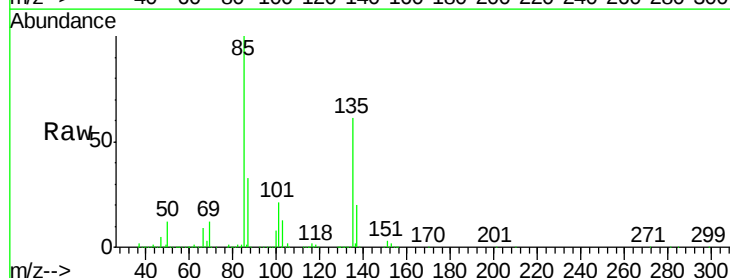
Acq: 15 Aug 2018 13:56

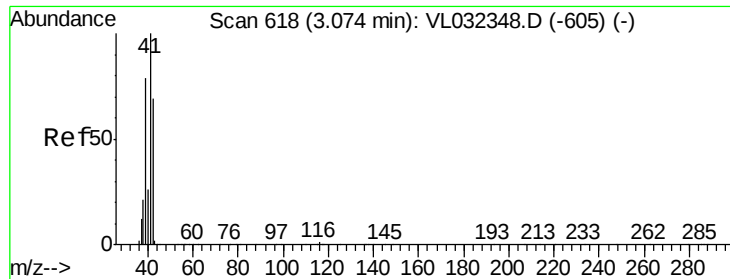
Tgt Ion: 85 Resp: 3362125

Ion Ratio Lower Upper

85 100

135 61.5 48.7 73.1





#9

Propene

Concen: 13.78 ppbv

RT: 3.07 min Scan# 617

Delta R.T. -0.01 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

Instrument :

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ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 1480938

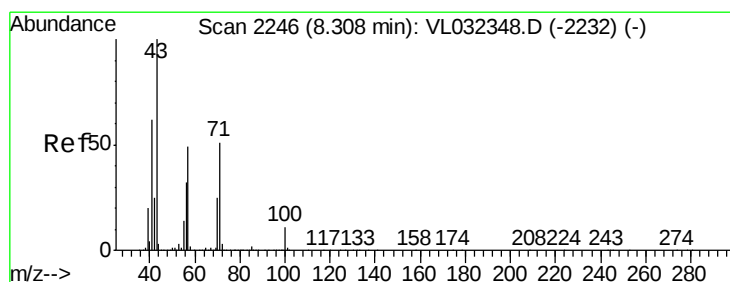
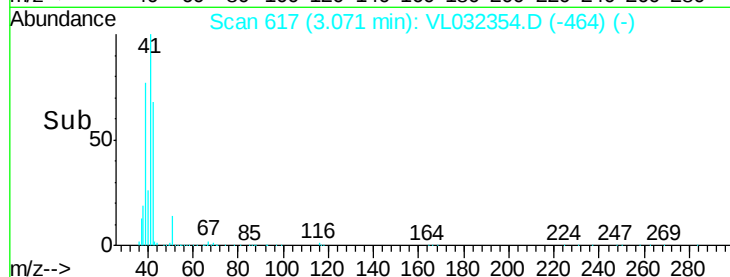
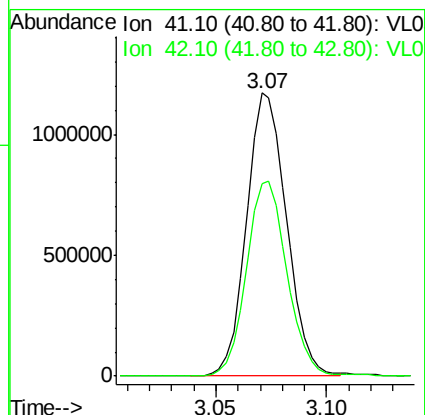
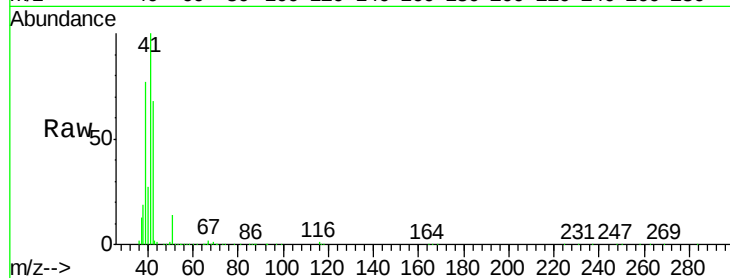
Ion Ratio Lower Upper

41 100

42 70.3 56.8 85.2

Manual Integrations
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#10

Heptane

Concen: 11.69 ppbv

RT: 8.31 min Scan# 2248

Delta R.T. -0.01 min

Lab File: VL032354.D

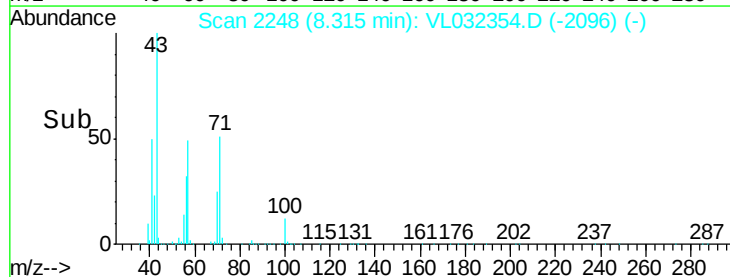
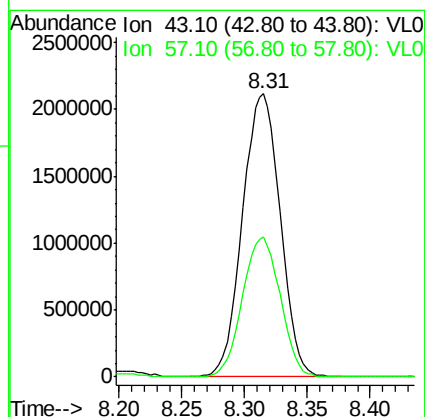
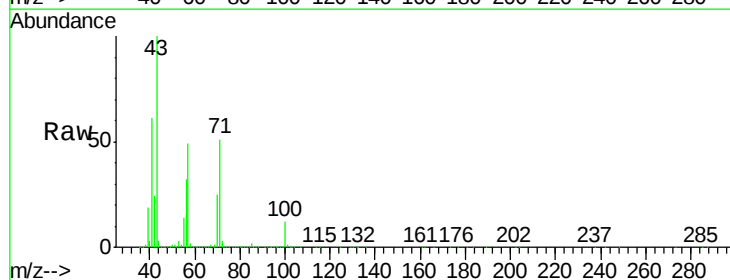
Acq: 15 Aug 2018 13:56

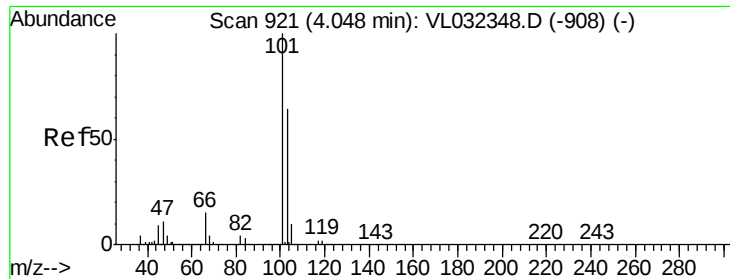
Tgt Ion: 43 Resp: 4407089

Ion Ratio Lower Upper

43 100

57 49.6 39.0 58.4





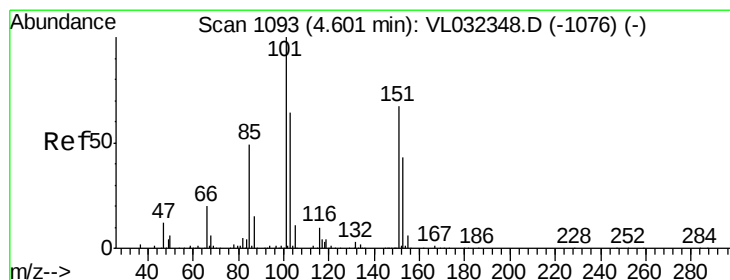
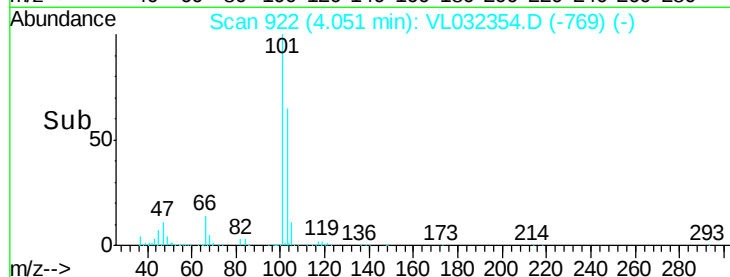
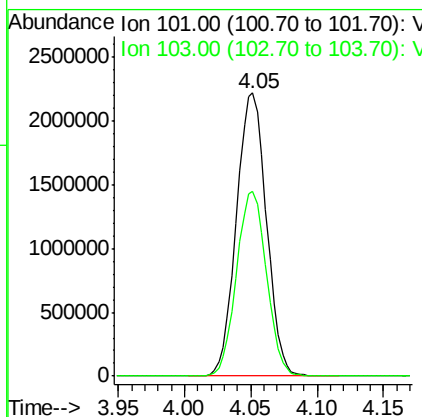
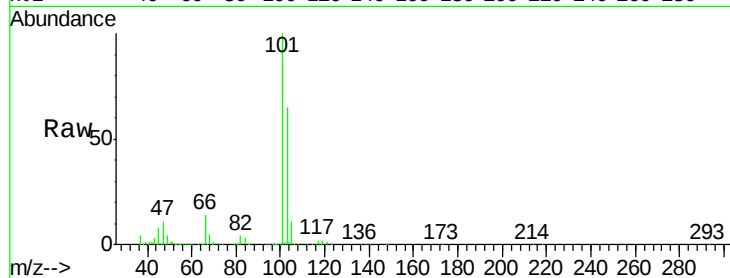
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 Trichlorofluoromethane
 Concen: 12.70 ppbv
 RT: 4.05 min Scan# 922
 Delta R.T. -0.01 min
 Lab File: VL032354.D
 Acq: 15 Aug 2018 13:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:101 Resp: 3497694
 Ion Ratio Lower Upper
 101 100
 103 65.4 52.6 78.8

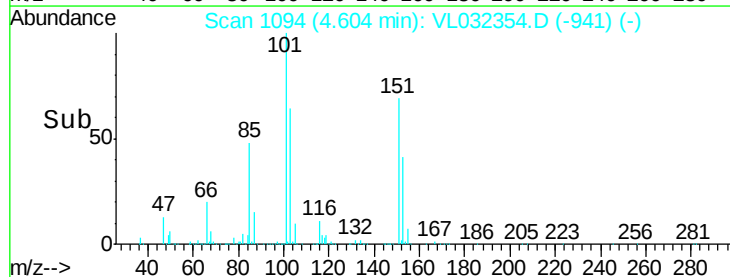
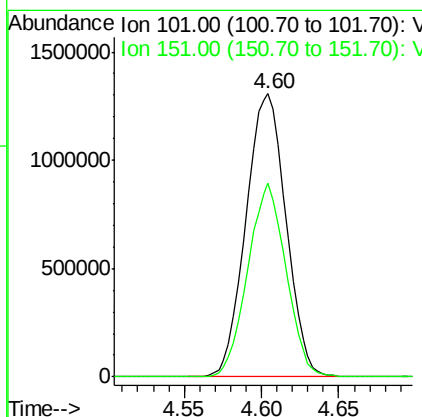
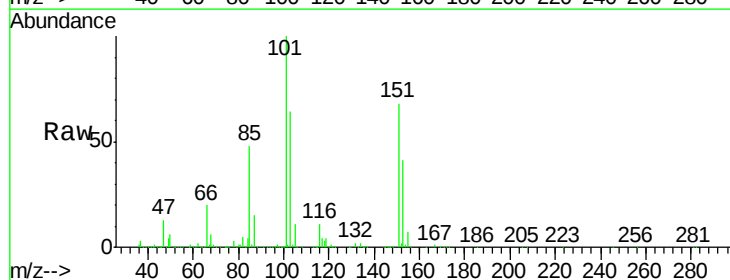
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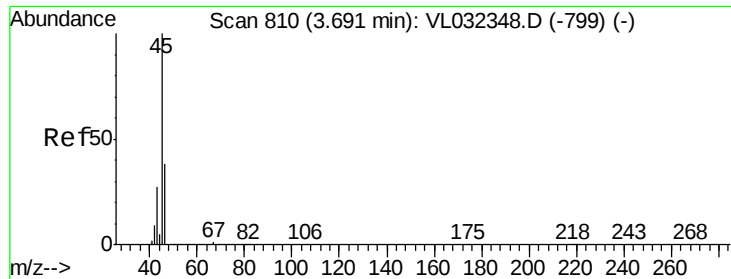
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 12.55 ppbv
 RT: 4.60 min Scan# 1094
 Delta R.T. -0.01 min
 Lab File: VL032354.D
 Acq: 15 Aug 2018 13:56

Tgt Ion:101 Resp: 2358669
 Ion Ratio Lower Upper
 101 100
 151 65.4 52.4 78.6





#13

Ethanol

Concen: 9.37 ppbv

RT: 3.69 min Scan# 810

Delta R.T. -0.01 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 45 Resp: 289194

Ion Ratio Lower Upper

45 100

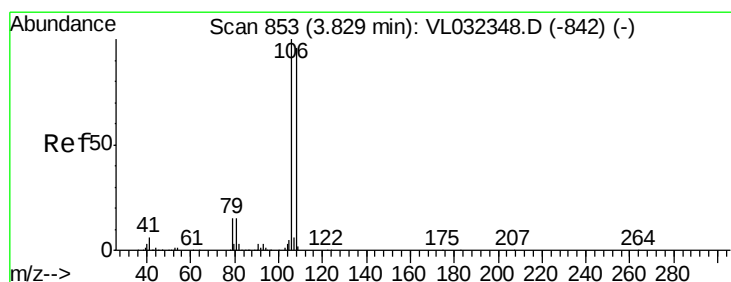
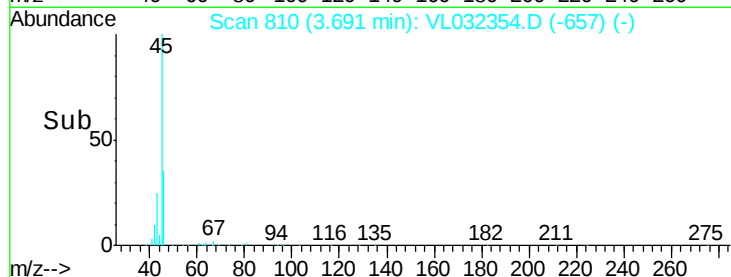
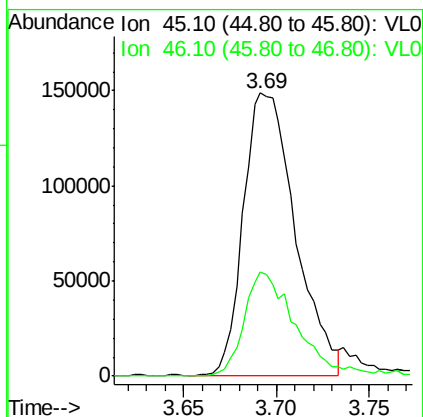
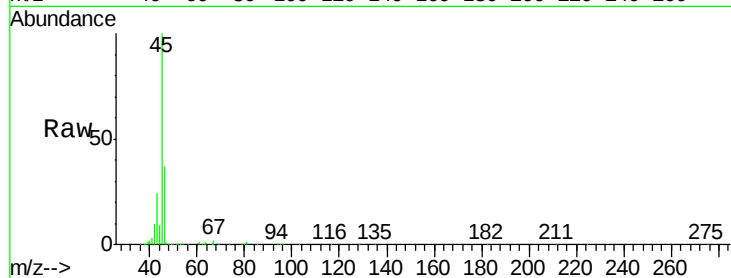
46 37.5 15.2 60.6

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#14

Bromoethene

Concen: 13.03 ppbv

RT: 3.83 min Scan# 854

Delta R.T. -0.01 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

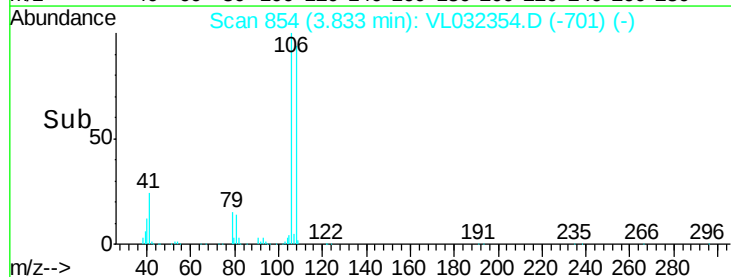
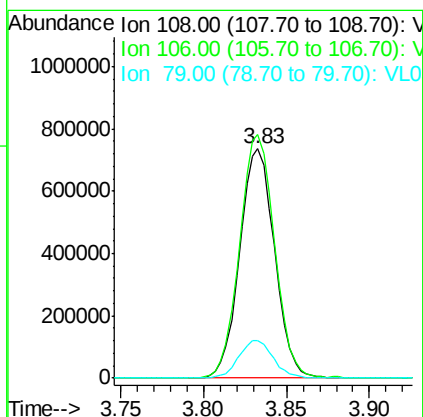
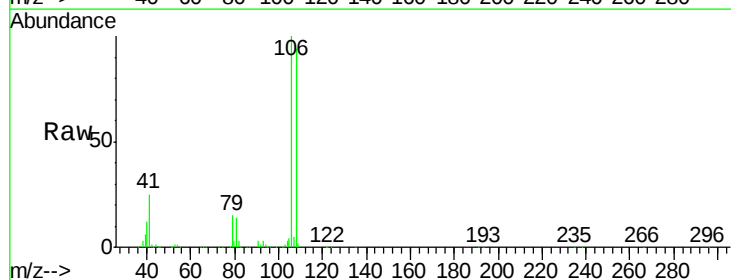
Tgt Ion: 108 Resp: 1074964

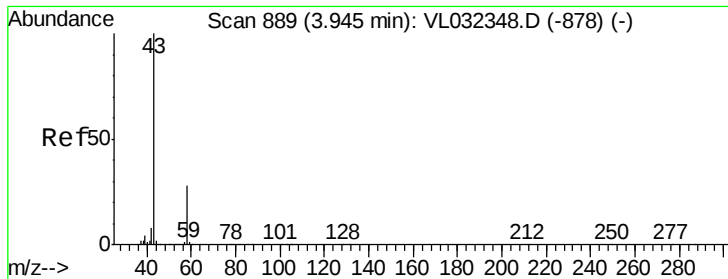
Ion Ratio Lower Upper

108 100

106 107.1 86.0 129.0

79 16.5 12.8 19.2





#15

Acetone

Concen: 12.35 ppbv

RT: 3.95 min Scan# 889

Delta R.T. -0.01 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 2781466

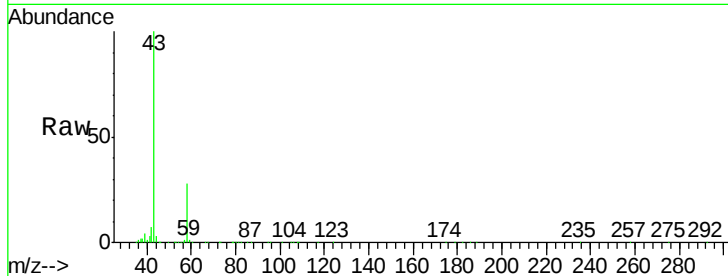
Ion Ratio Lower Upper

43 100

58 28.4 22.5 33.7

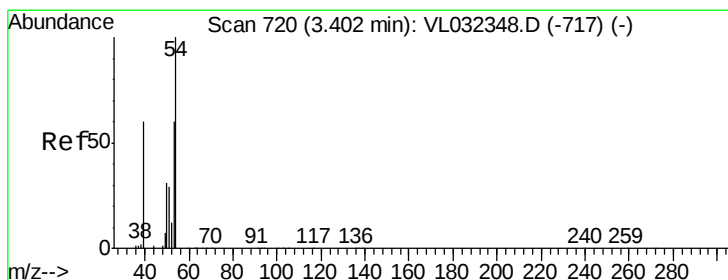
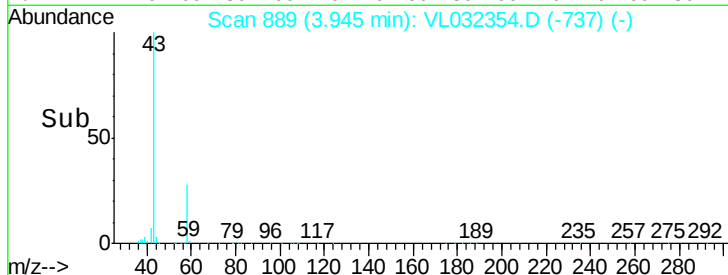
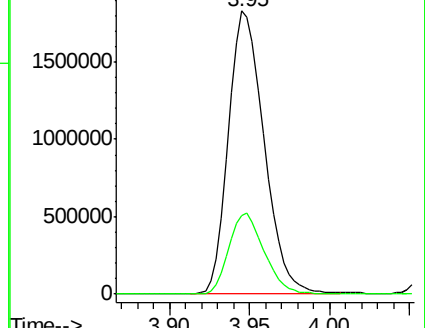
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 11.88 ppbv

RT: 3.40 min Scan# 720

Delta R.T. -0.01 min

Lab File: VL032354.D

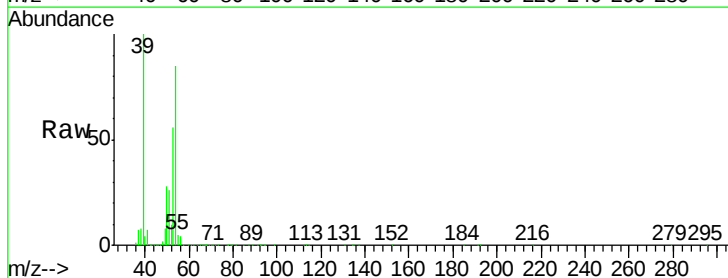
Acq: 15 Aug 2018 13:56

Tgt Ion: 39 Resp: 1387380

Ion Ratio Lower Upper

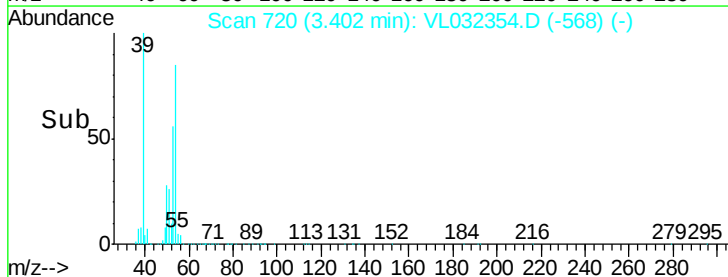
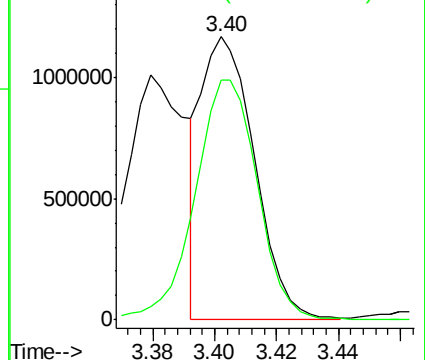
39 100

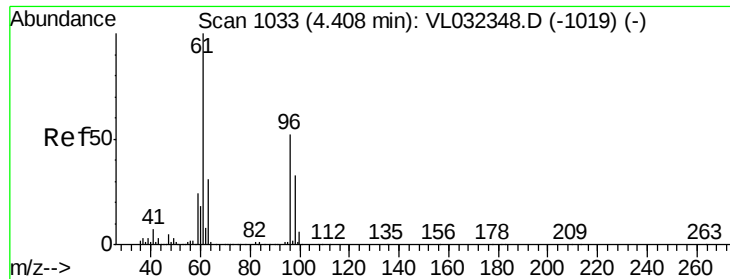
54 100.9 74.3 111.5



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





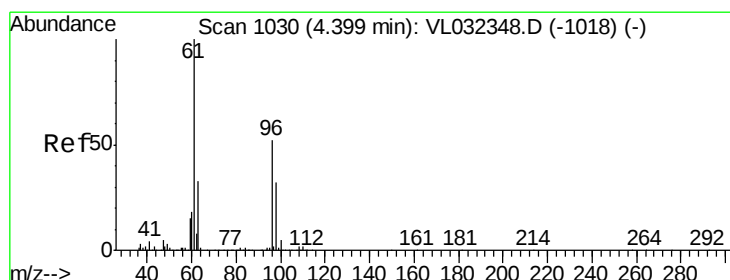
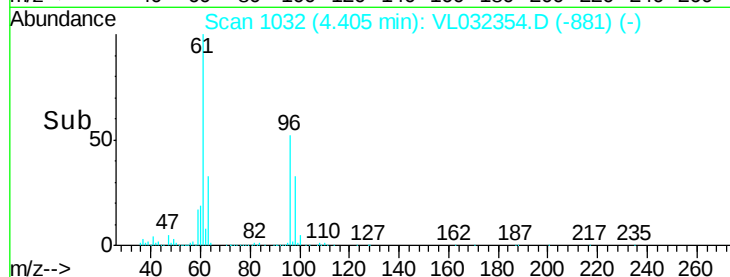
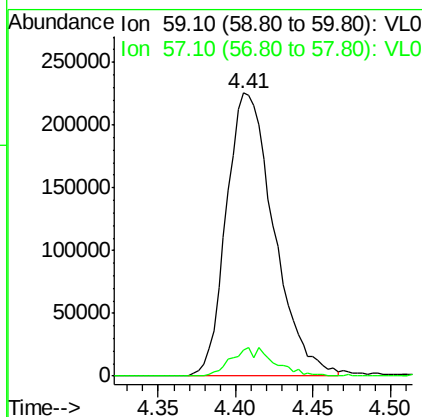
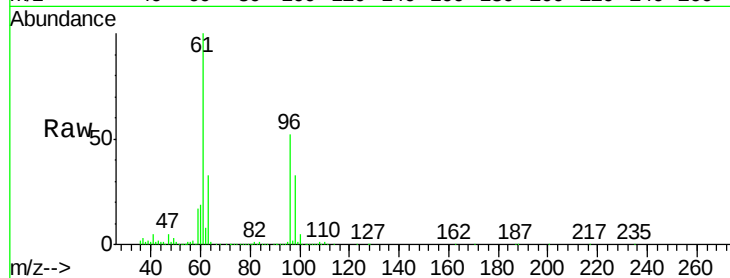
#17
 tert-Butyl alcohol
 Concen: 6.72 ppbv
 RT: 4.41 min Scan# 1032
 Delta R.T. -0.02 min
 Lab File: VL032354.D
 Acq: 15 Aug 2018 13:56

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC015

Tot Ion: 59 Resp: 481194
 Ion Ratio Lower Upper
 59 100
 57 9.3 8.0 12.0

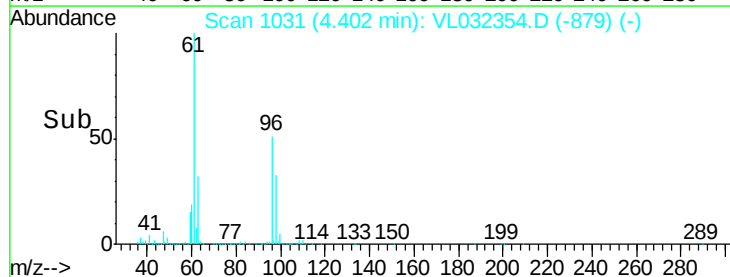
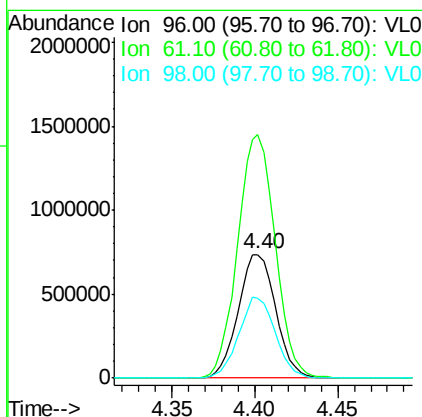
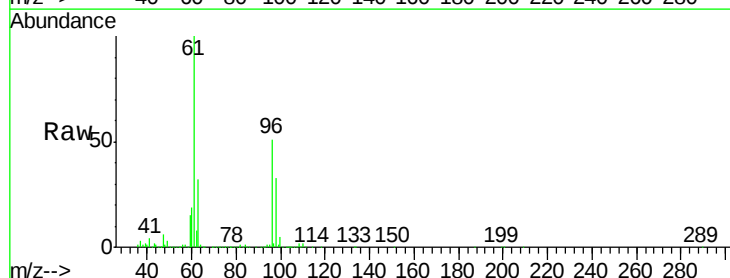
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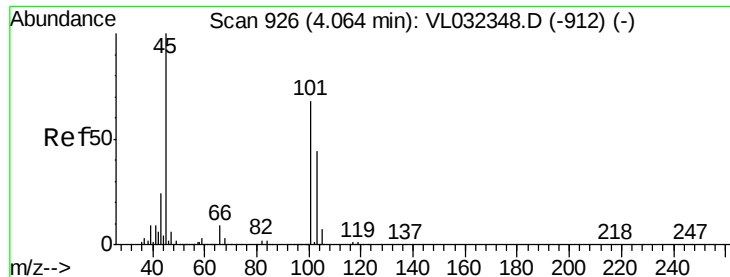
MMDadoda
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#18
 1,1-Dichloroethene
 Concen: 13.33 ppbv
 RT: 4.40 min Scan# 1031
 Delta R.T. -0.01 min
 Lab File: VL032354.D
 Acq: 15 Aug 2018 13:56

Tgt Ion: 96 Resp: 1162863
 Ion Ratio Lower Upper
 96 100
 61 196.5 159.0 238.4
 98 64.3 51.1 76.7





#19

Isopropyl Alcohol

Concen: 13.06 ppbv

RT: 4.07 min Scan# 928

Delta R.T. -0.01 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

Tot Ion: 45 Resp: 1962712

Ion Ratio Lower Upper

45 100

58 1.6 1.5 2.3

Instrument :

MSVOA_L

ClientSampleId :

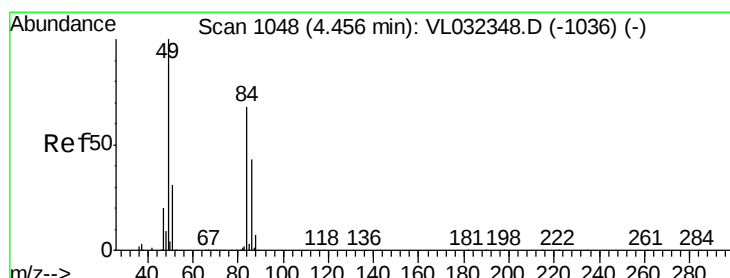
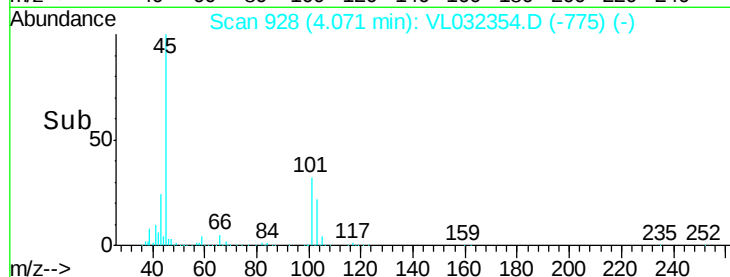
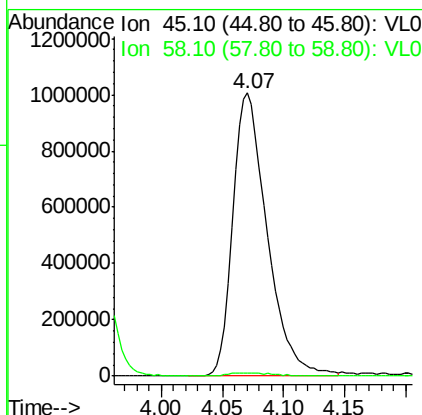
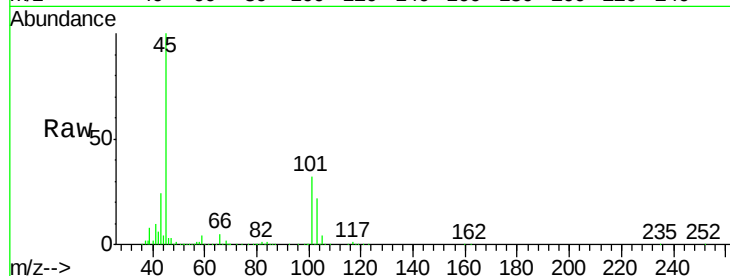
VSTDIC015

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#20

Methylene Chloride

Concen: 11.35 ppbv

RT: 4.46 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

Tgt Ion: 84 Resp: 1027438

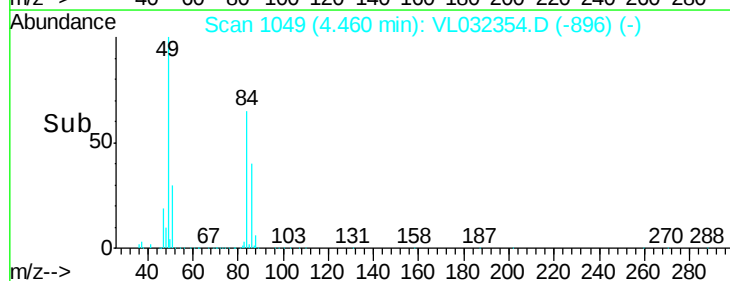
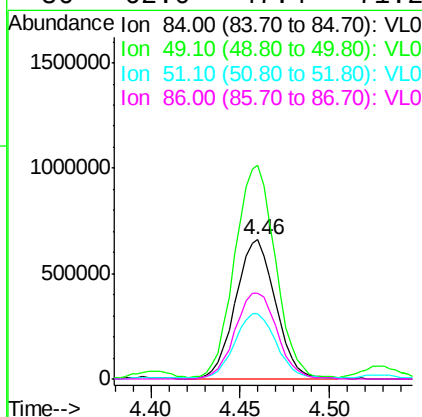
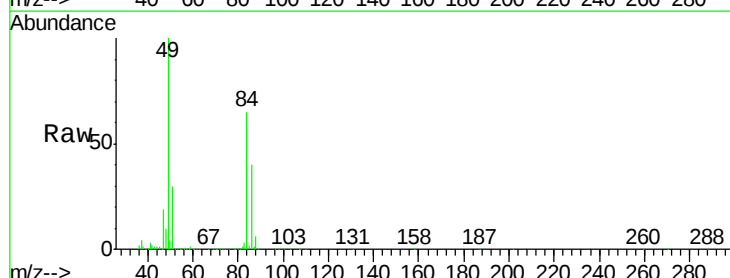
Ion Ratio Lower Upper

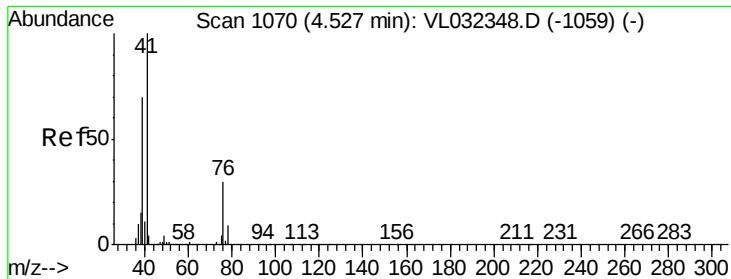
84 100

49 152.9 123.4 185.0

51 46.2 38.2 57.2

86 62.0 47.4 71.2





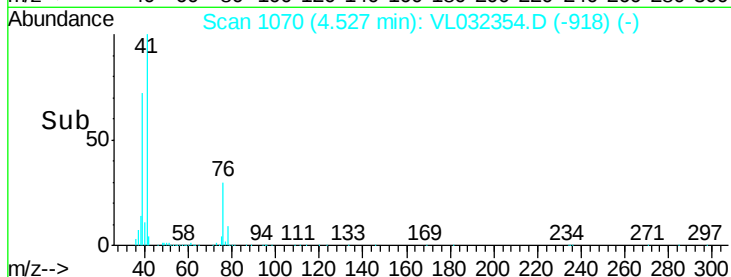
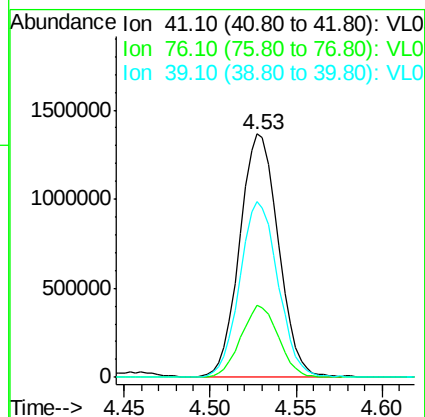
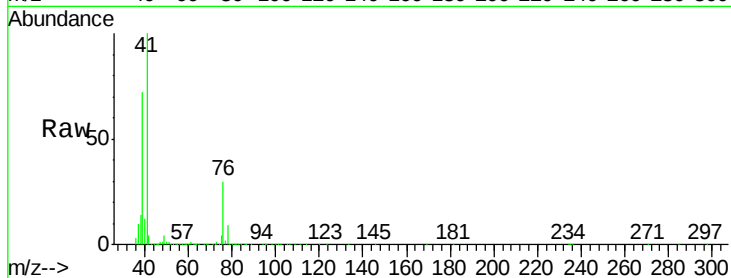
#21
Allvl Chloride
Concen: 13.86 ppbv
RT: 4.53 min Scan# 1070
Delta R.T. -0.01 min
Lab File: VL032354.D
Acq: 15 Aug 2018 13:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.8	23.1	34.7
39	71.5	58.2	87.2

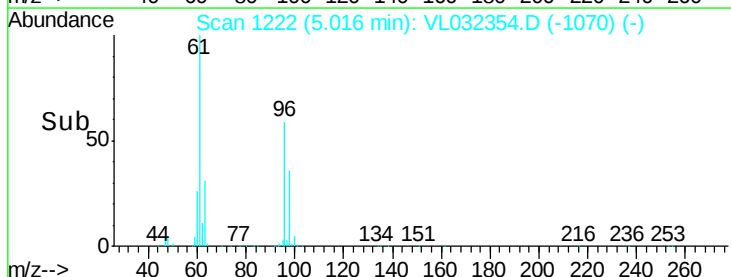
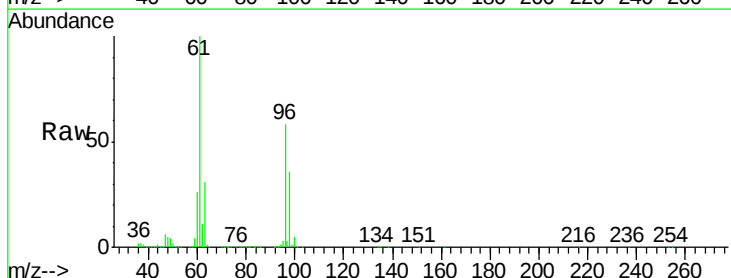
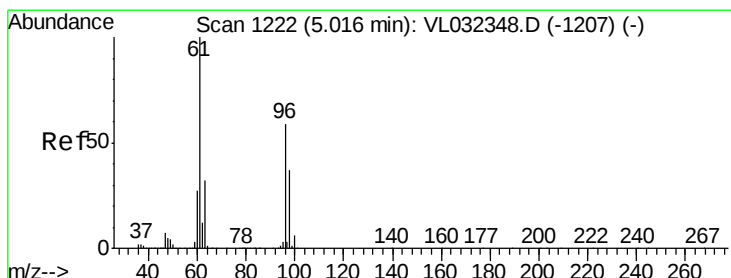
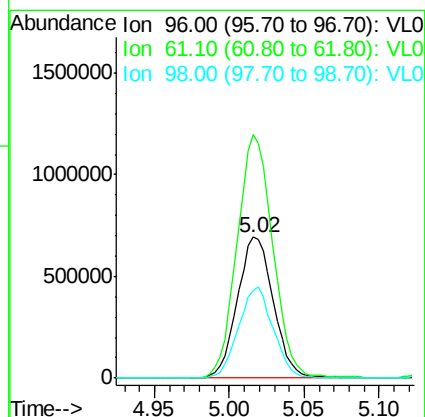
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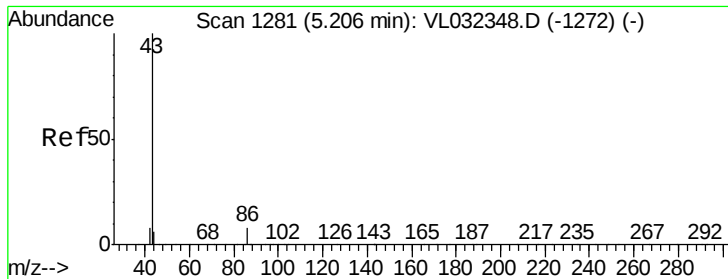
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 13.82 ppbv
RT: 5.02 min Scan# 1222
Delta R.T. -0.01 min
Lab File: VL032354.D
Acq: 15 Aug 2018 13:56

Tgt Ion	Ratio	Lower	Upper
96	100		
61	172.7	136.5	204.7
98	62.3	51.3	76.9





#23

Vinyl Acetate

Concen: 13.05 ppbv

RT: 5.21 min Scan# 1283

Delta R.T. -0.01 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 5271408

Ion Ratio Lower Upper

43 100

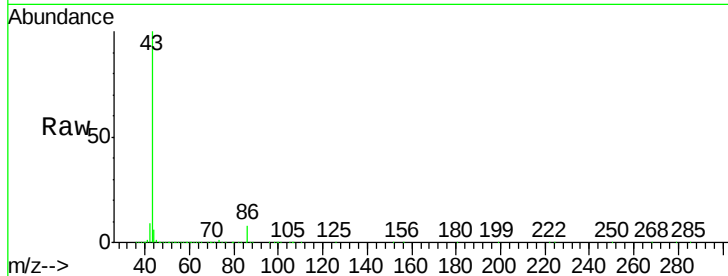
86 7.6 6.3 9.5

42 8.9 7.0 10.4

44 5.9 4.6 7.0

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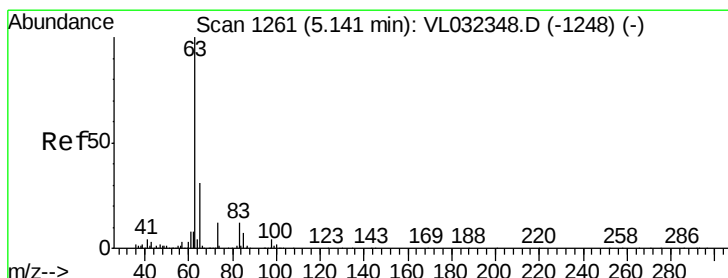
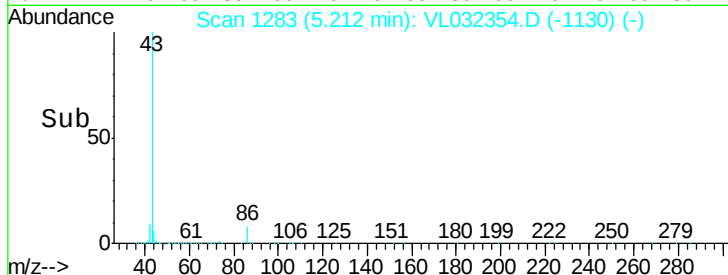
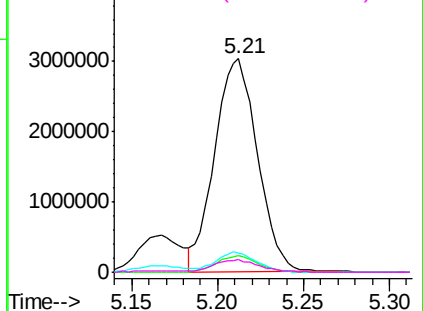


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 12.42 ppbv

RT: 5.15 min Scan# 1263

Delta R.T. -0.01 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

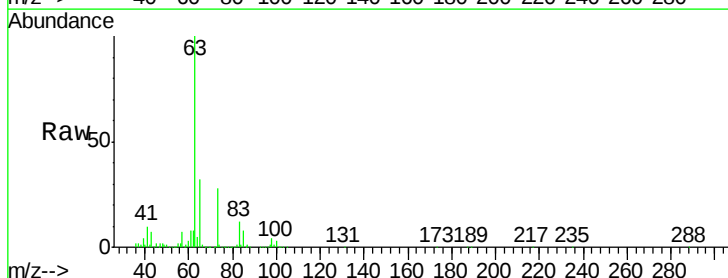
Tgt Ion: 63 Resp: 3599036

Ion Ratio Lower Upper

63 100

98 4.2 2.1 6.5

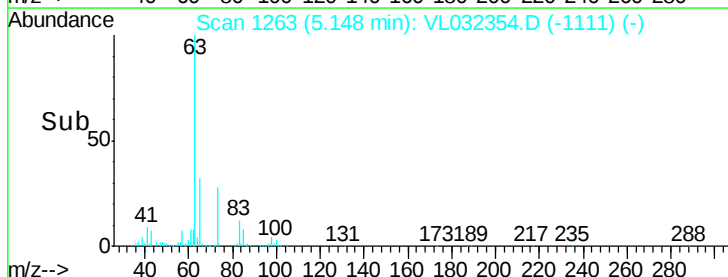
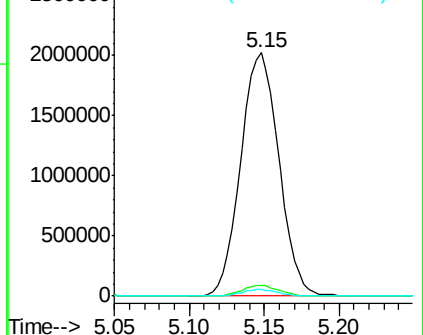
100 2.7 1.3 3.8

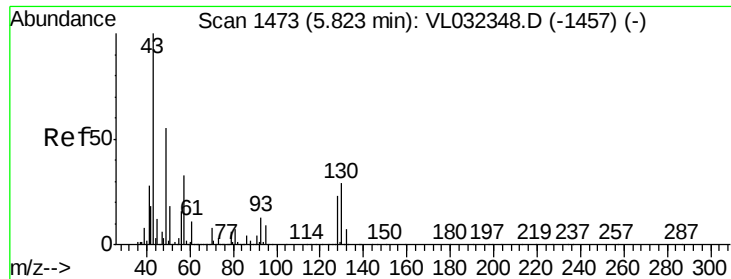


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





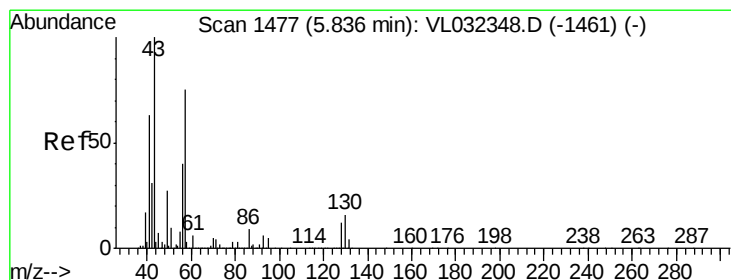
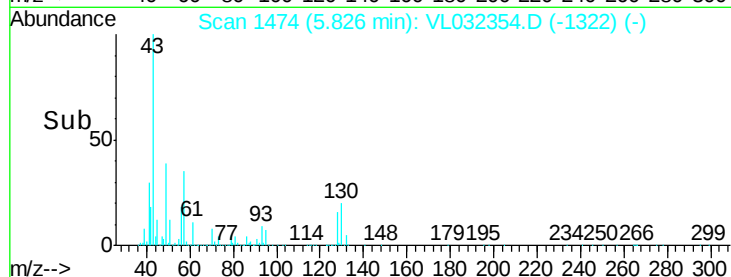
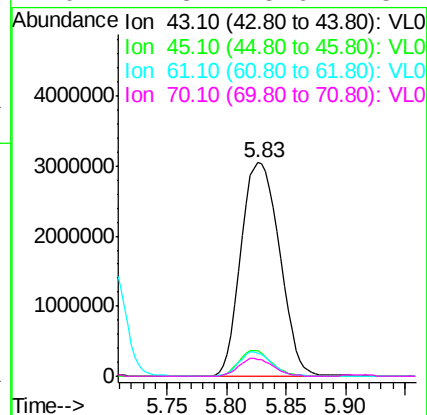
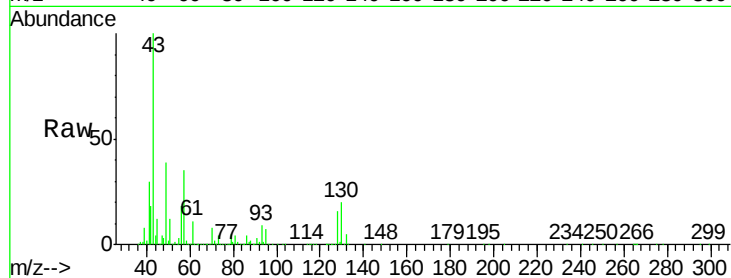
#25
Ethyl Acetate
Concen: 13.60 ppbv
RT: 5.83 min Scan# 1474
Delta R.T. -0.01 min
Lab File: VL032354.D
Acq: 15 Aug 2018 13:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
43	100		
45	10.4	8.1	12.1
61	9.8	7.4	11.0
70	7.3	5.6	8.4

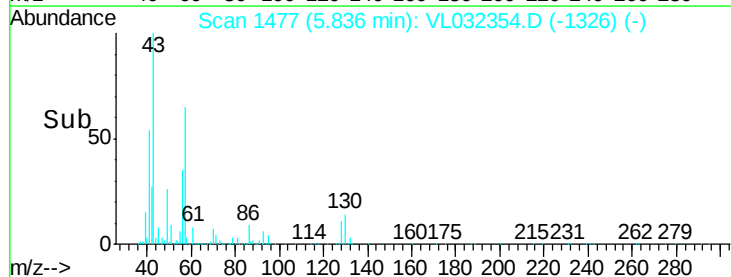
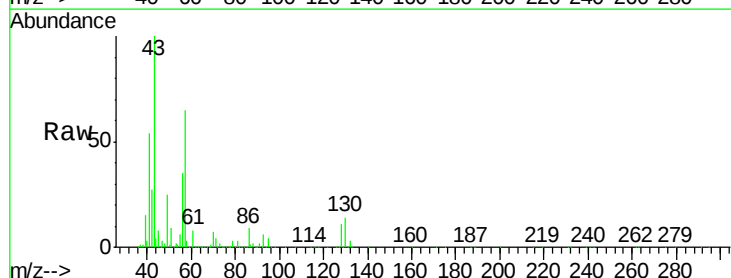
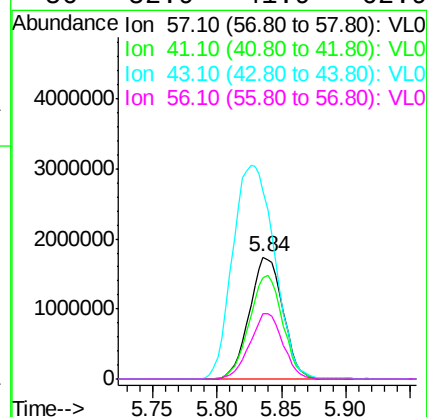
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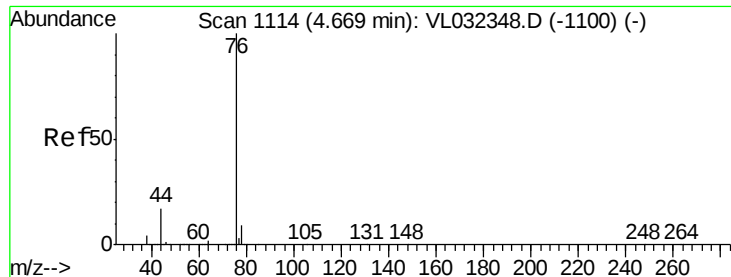
MMDadoda
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#26
Hexane
Concen: 13.75 ppbv
RT: 5.84 min Scan# 1477
Delta R.T. -0.02 min
Lab File: VL032354.D
Acq: 15 Aug 2018 13:56

Tgt Ion	Ratio	Lower	Upper
57	100		
41	85.0	68.1	102.1
43	219.4	177.4	266.2
56	52.9	41.9	62.9





#27

Carbon Disulfide

Concen: 14.49 ppbv

RT: 4.67 min Scan# 1115

Delta R.T. -0.01 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 3013159

Ion Ratio Lower Upper

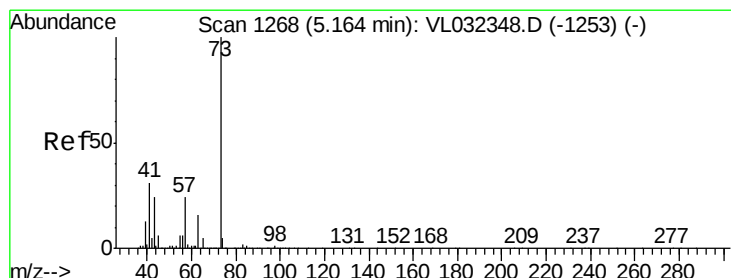
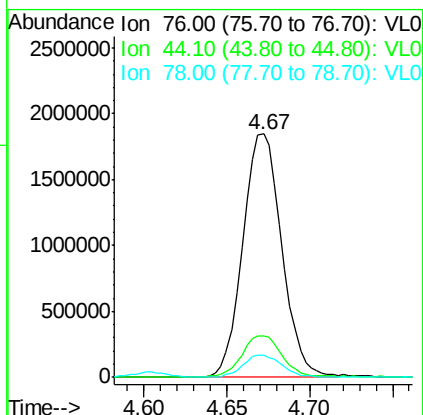
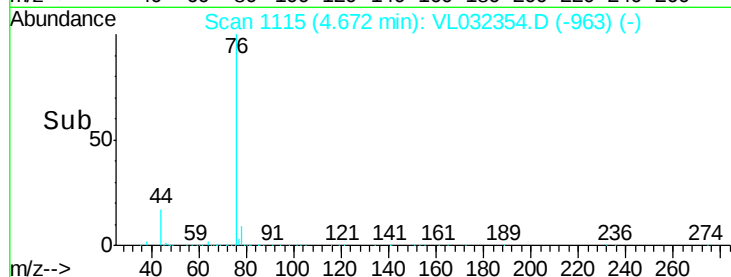
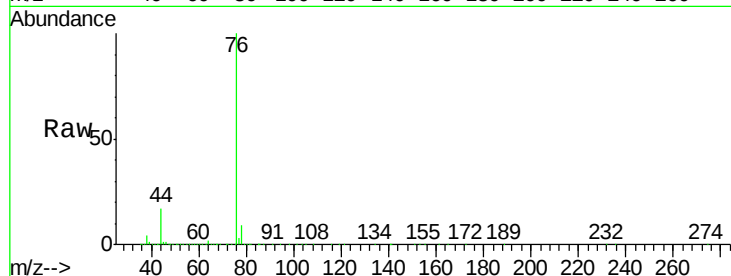
76 100

44 17.2 14.0 21.0

78 9.2 7.5 11.3

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#28

Methyl tert-Butyl Ether

Concen: 12.90 ppbv

RT: 5.17 min Scan# 1269

Delta R.T. -0.01 min

Lab File: VL032354.D

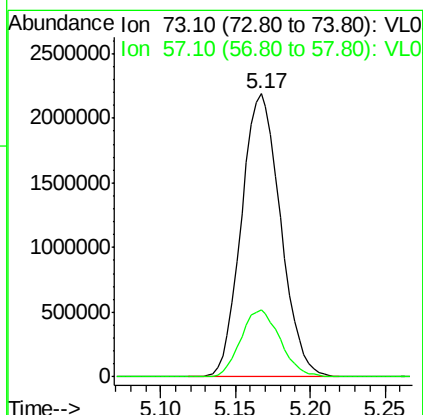
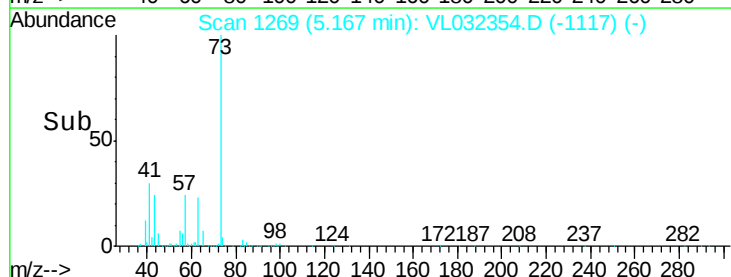
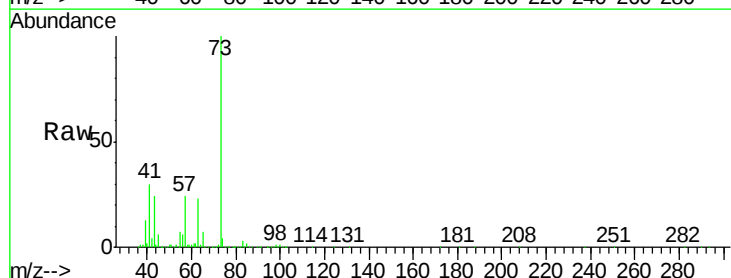
Acq: 15 Aug 2018 13:56

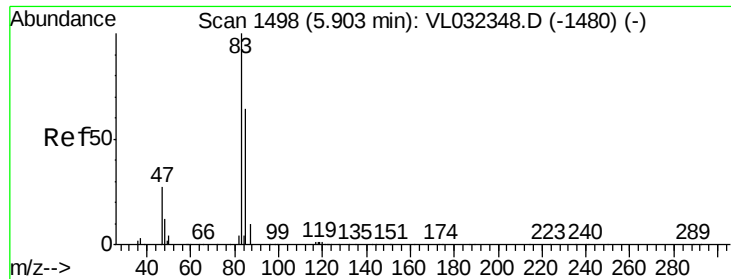
Tgt Ion: 73 Resp: 3991118

Ion Ratio Lower Upper

73 100

57 24.1 19.4 29.0





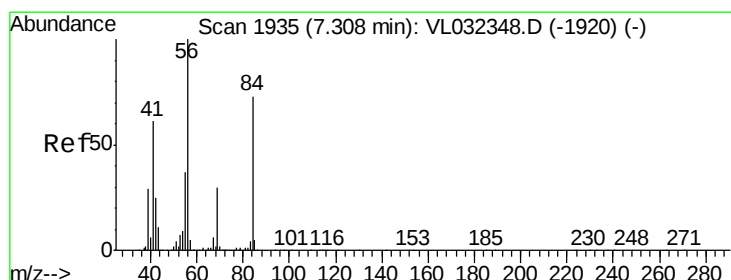
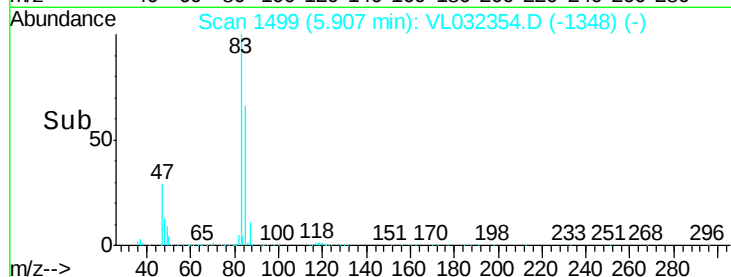
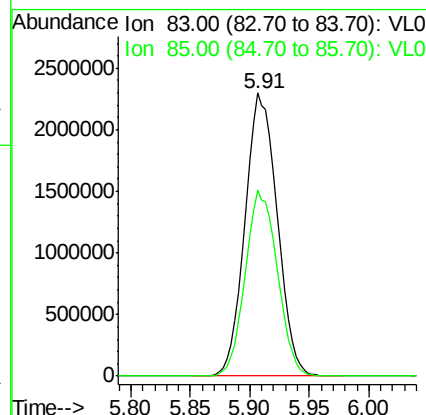
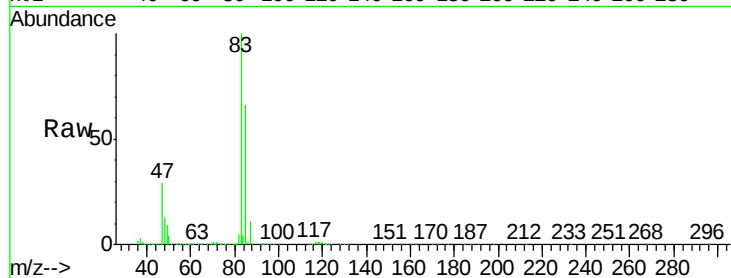
#29
Chloroform
Concen: 12.99 ppbv
RT: 5.91 min Scan# 1499
Delta R.T. -0.02 min
Lab File: VL032354.D
Acq: 15 Aug 2018 13:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 4320731
Ion Ratio Lower Upper
83 100
85 65.7 52.9 79.3

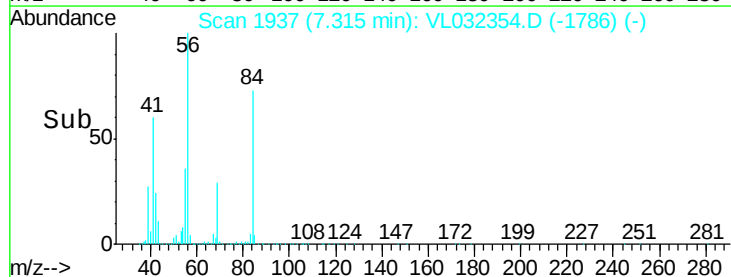
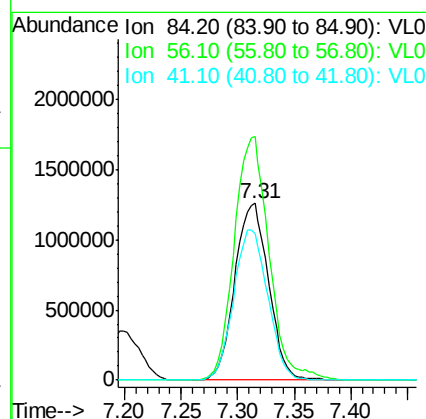
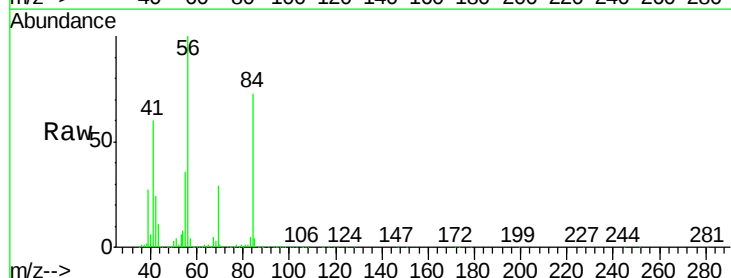
Manual Integrations
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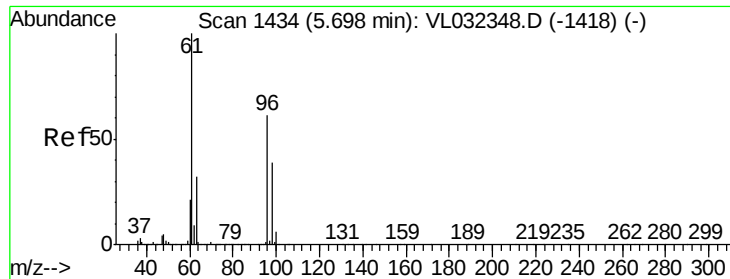
MMDadoda
8/17/2018 2:06:33 PM



#30
Cyclohexane
Concen: 14.69 ppbv
RT: 7.31 min Scan# 1937
Delta R.T. -0.02 min
Lab File: VL032354.D
Acq: 15 Aug 2018 13:56

Tgt Ion: 84 Resp: 2621823
Ion Ratio Lower Upper
84 100
56 142.0 116.8 175.2
41 86.0 70.0 105.0





#31

cis-1,2-Dichloroethene

Concen: 15.35 ppbv

RT: 5.70 min Scan# 1435

Delta R.T. -0.01 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

Instrument :

MSVOA_L

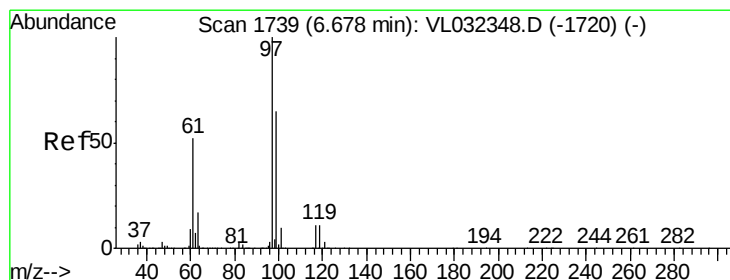
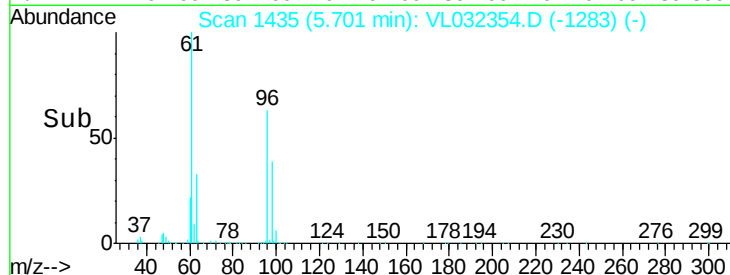
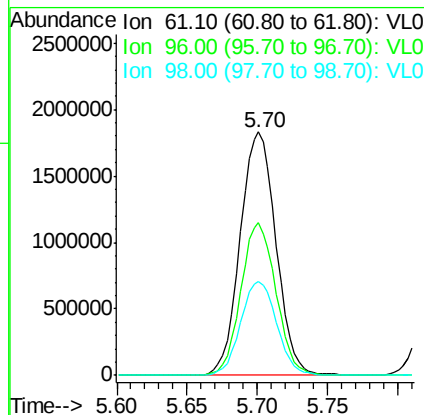
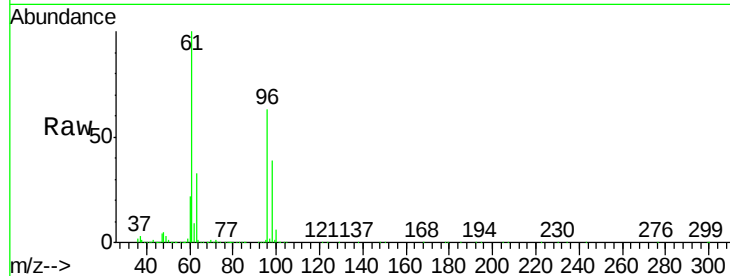
ClientSampleId :

VSTDIC015

Tot Ion:	61	Resp:	3253919
Ion	Ratio	Lower	Upper
61	100		
96	62.6	49.8	74.6
98	38.6	31.8	47.6

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#32

1,1,1-Trichloroethane

Concen: 14.54 ppbv

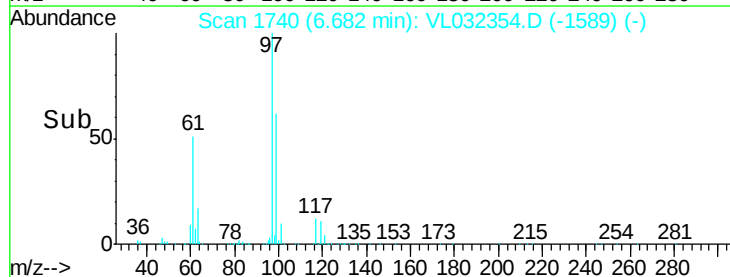
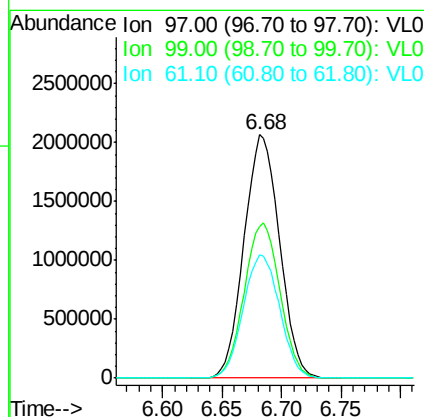
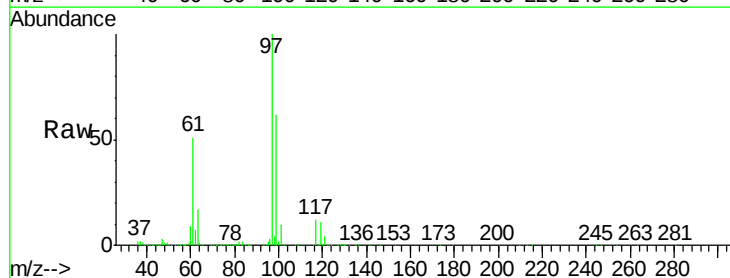
RT: 6.68 min Scan# 1740

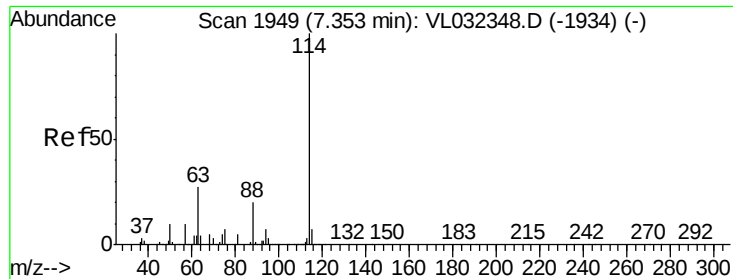
Delta R.T. -0.02 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

Tgt Ion:	97	Resp:	4279855
Ion	Ratio	Lower	Upper
97	100		
99	64.1	50.9	76.3
61	51.9	41.8	62.6





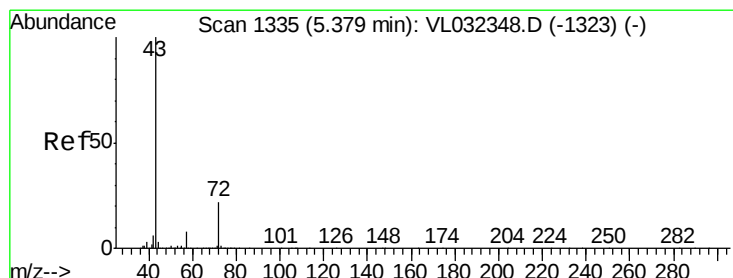
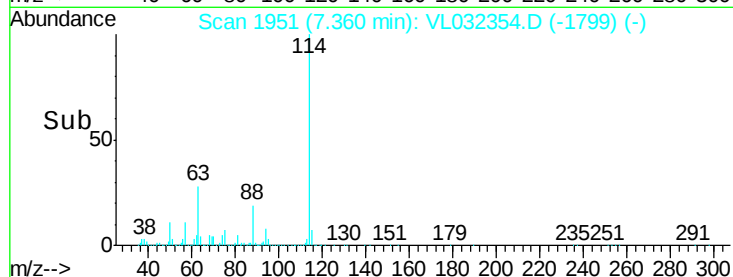
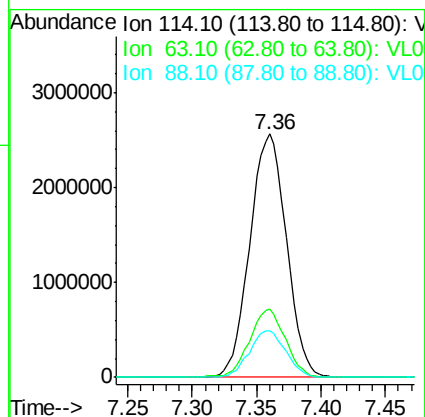
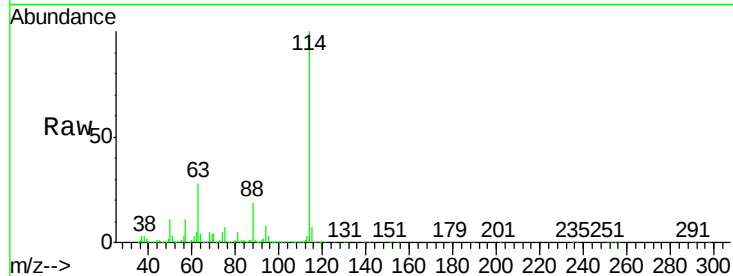
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.36 min Scan# 1951
 Delta R.T. -0.01 min
 Lab File: VL032354.D
 Acq: 15 Aug 2018 13:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.6	22.4	33.6
88	18.9	15.3	22.9

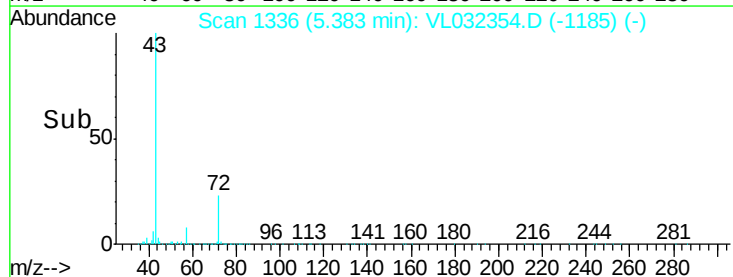
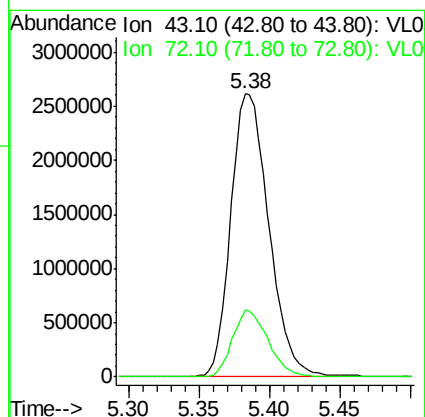
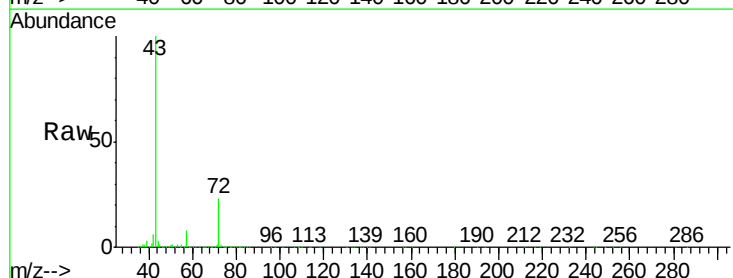
Manual Integrations
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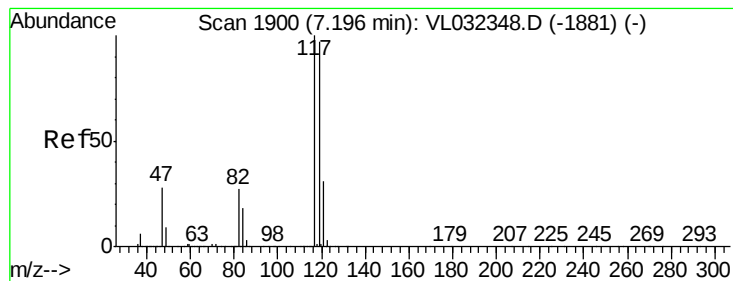
MMDadoda
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#34
 2-Butanone
 Concen: 14.97 ppbv
 RT: 5.38 min Scan# 1336
 Delta R.T. -0.02 min
 Lab File: VL032354.D
 Acq: 15 Aug 2018 13:56

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.3	17.4	26.2





#35

Carbon Tetrachloride

Concen: 14.18 ppbv

RT: 7.20 min Scan# 1901

Delta R.T. -0.02 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 4090508

Ion Ratio Lower Upper

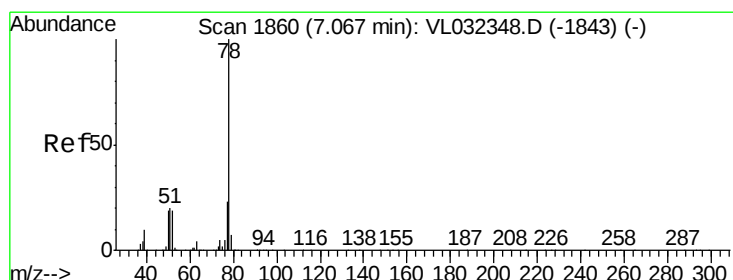
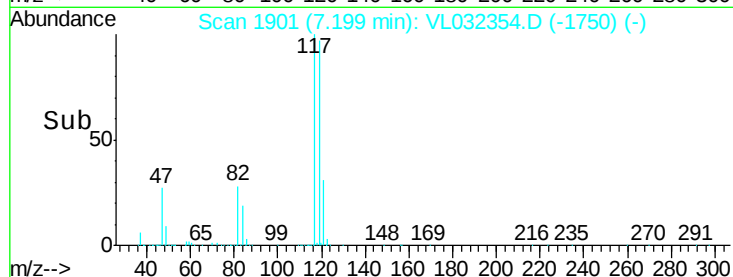
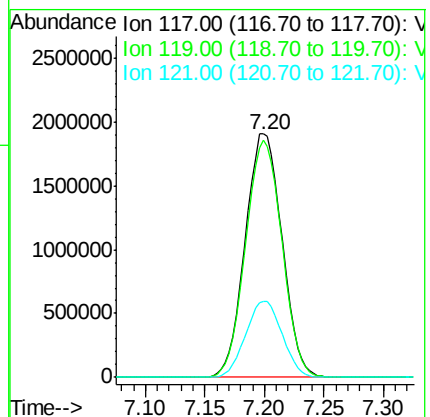
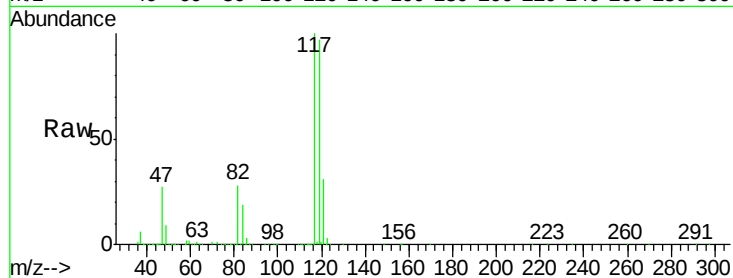
117 100

119 97.4 76.1 114.1

121 31.2 24.4 36.6

Manual Integrations
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#36

Benzene

Concen: 13.34 ppbv

RT: 7.07 min Scan# 1861

Delta R.T. -0.02 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

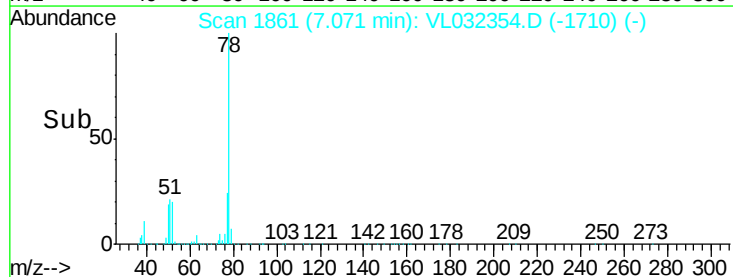
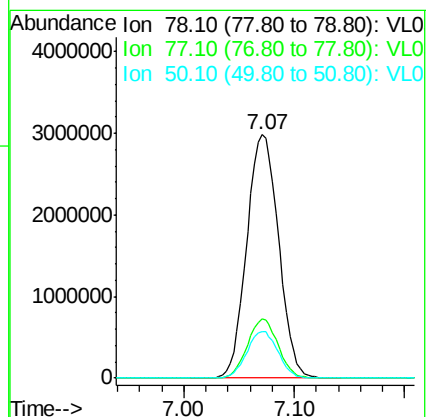
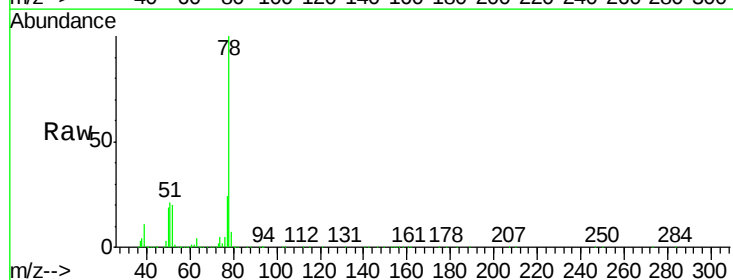
Tgt Ion: 78 Resp: 5971956

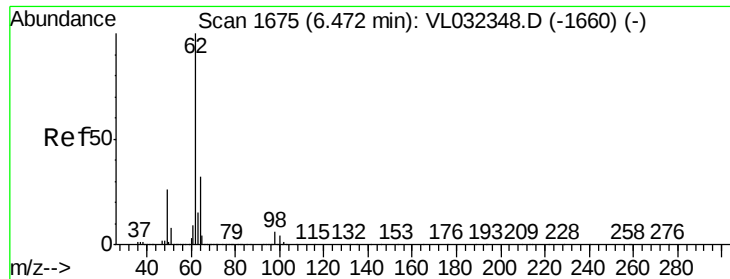
Ion Ratio Lower Upper

78 100

77 24.3 18.4 27.6

50 19.2 15.3 22.9





#37

1,2-Dichloroethane

Concen: 13.78 ppbv

RT: 6.48 min Scan# 1676

Delta R.T. -0.01 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 3565527

Ion Ratio Lower Upper

62 100

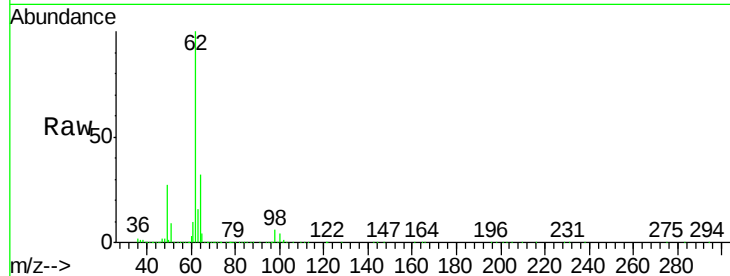
98 6.2 5.1 7.7

Manual Integrations

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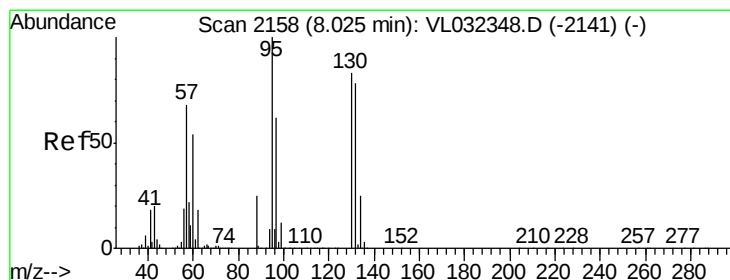
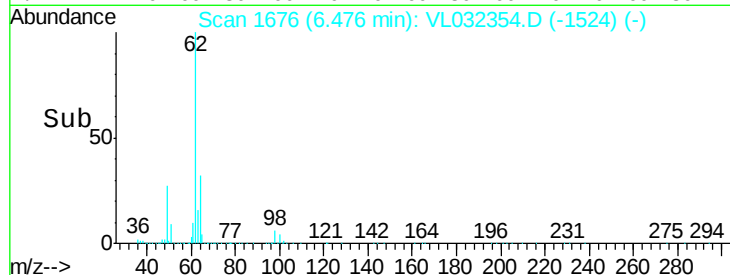
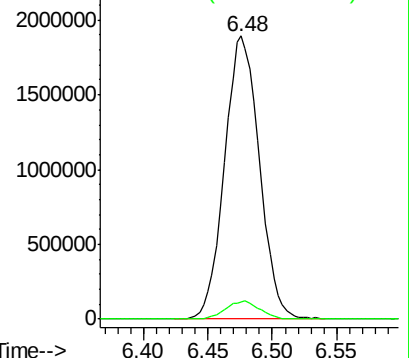
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 11.62 ppbv

RT: 8.03 min Scan# 2159

Delta R.T. -0.02 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

Tgt Ion: 130 Resp: 2011172

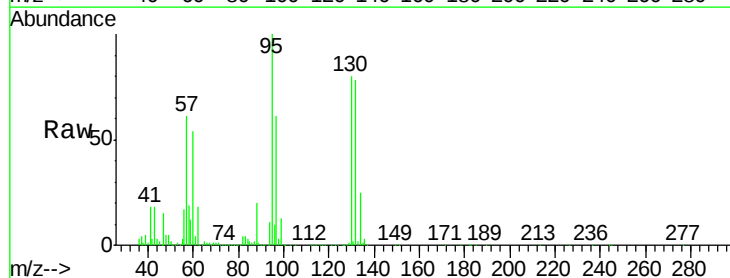
Ion Ratio Lower Upper

130 100

95 125.2 92.9 139.3

132 97.1 73.0 109.4

97 76.8 59.6 89.4

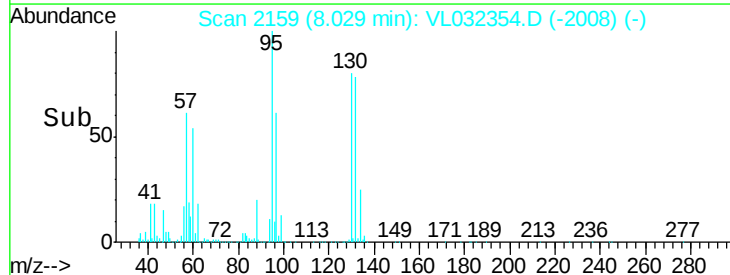
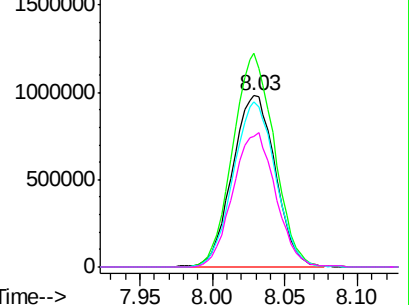


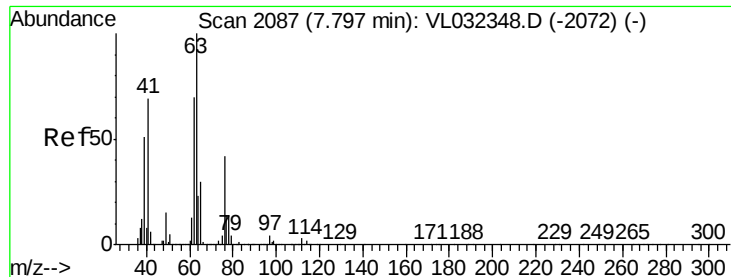
Abundance Ion 130.00 (129.70 to 130.70): V

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





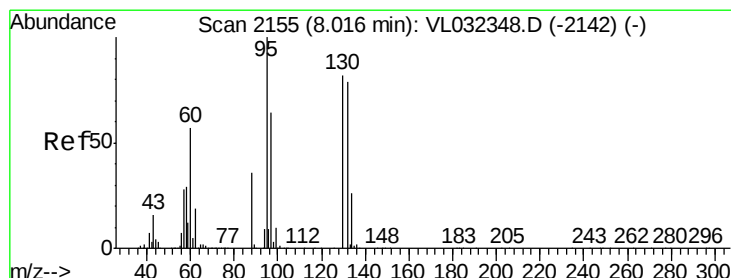
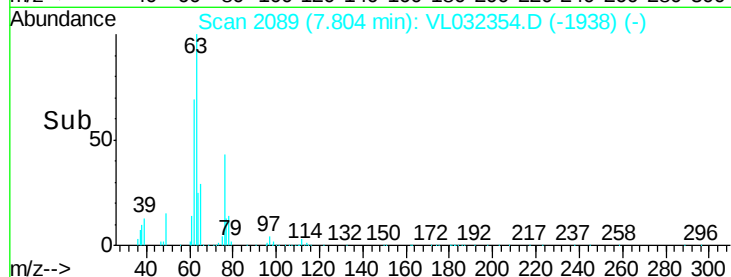
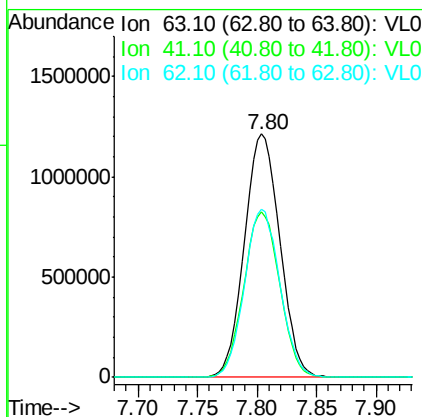
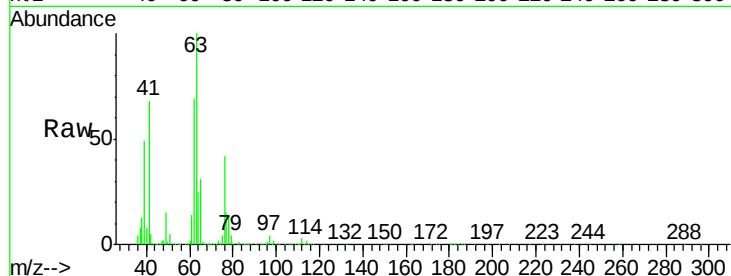
#39
 1,2-Dichloropropane
 Concen: 11.15 ppbv
 RT: 7.80 min Scan# 2089
 Delta R.T. -0.02 min
 Lab File: VL032354.D
 Acq: 15 Aug 2018 13:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
63	100		
41	68.0	52.5	78.7
62	68.9	54.6	81.8

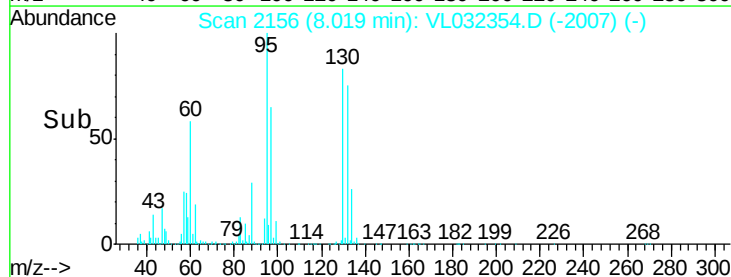
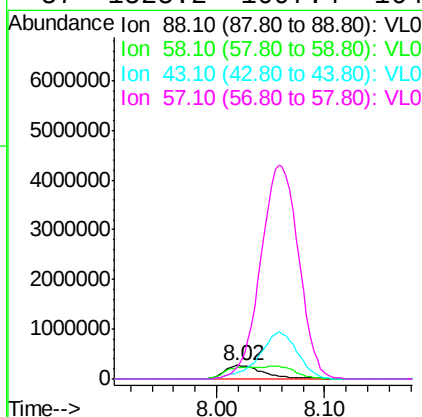
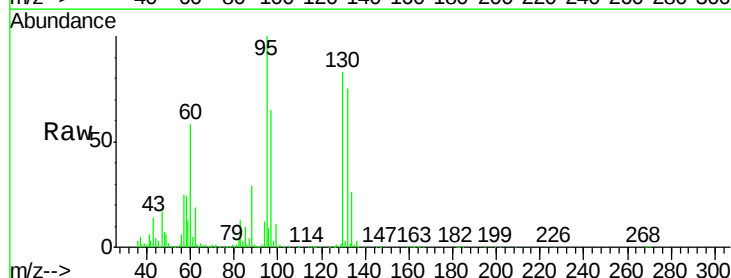
Manual Integrations
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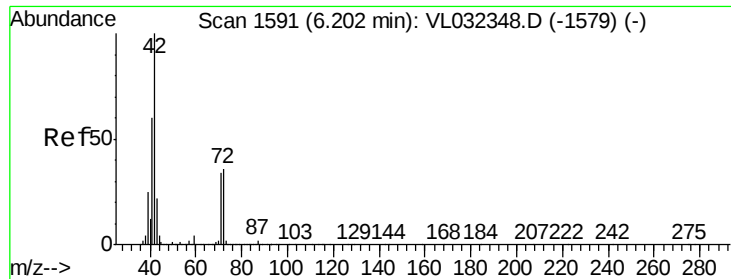
MMDadoda
 8/17/2018 2:06:33 PM



#40
 1,4-Dioxane
 Concen: 10.44 ppbv
 RT: 8.02 min Scan# 2156
 Delta R.T. -0.02 min
 Lab File: VL032354.D
 Acq: 15 Aug 2018 13:56

Tgt Ion	Ratio	Lower	Upper
88	100		
58	154.6	120.5	180.7
43	343.1	246.2	369.2
57	1525.2	1097.4	1646.2





#41

Tetrahydrofuran

Concen: 15.85 ppbv

RT: 6.21 min Scan# 1592

Delta R.T. -0.02 min

Lab File: VL032354.D

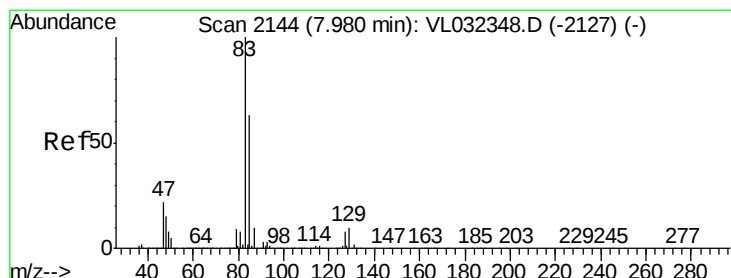
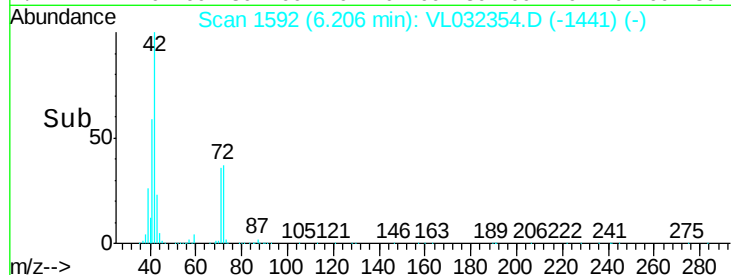
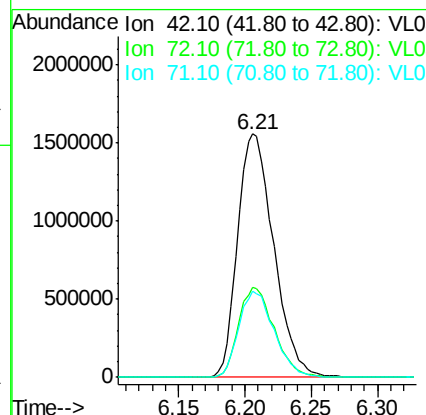
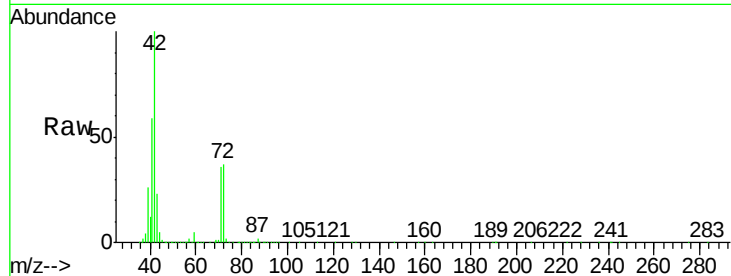
Acq: 15 Aug 2018 13:56

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.5	28.6	42.8
71	35.0	27.8	41.6

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Manual Integrations
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#42

Bromodichloromethane

Concen: 11.24 ppbv

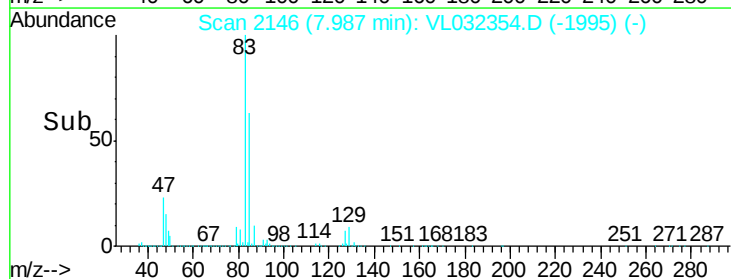
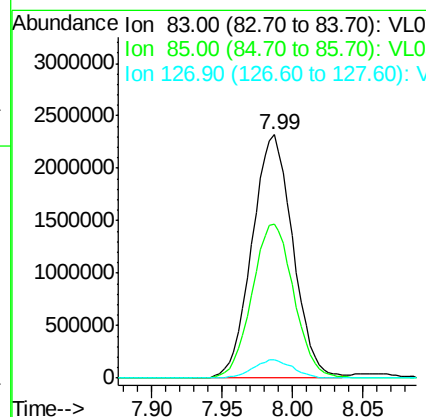
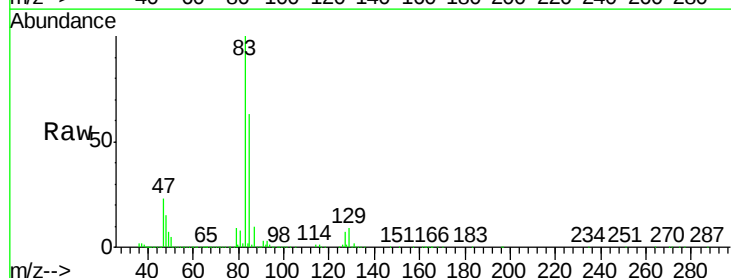
RT: 7.99 min Scan# 2146

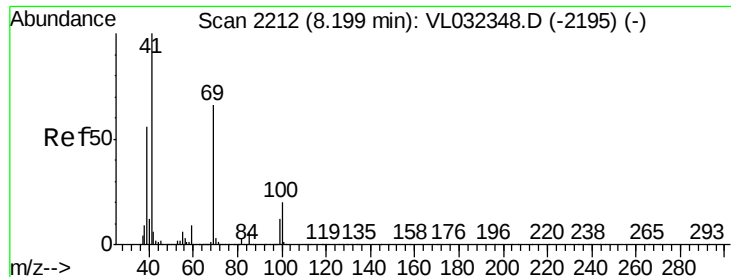
Delta R.T. -0.02 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.0	50.7	76.1
127	7.3	6.0	9.0





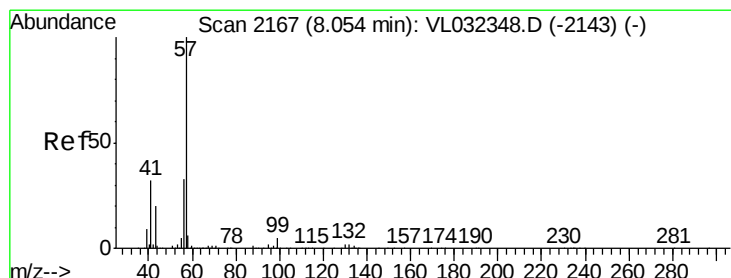
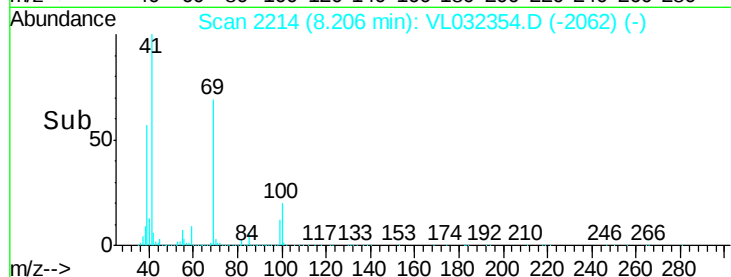
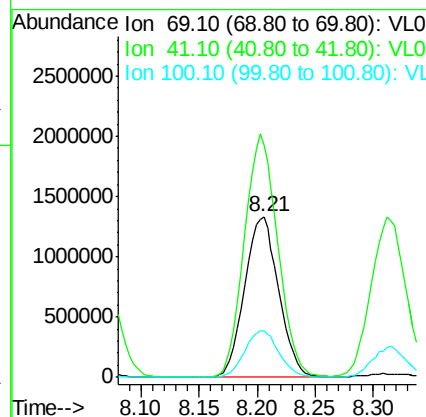
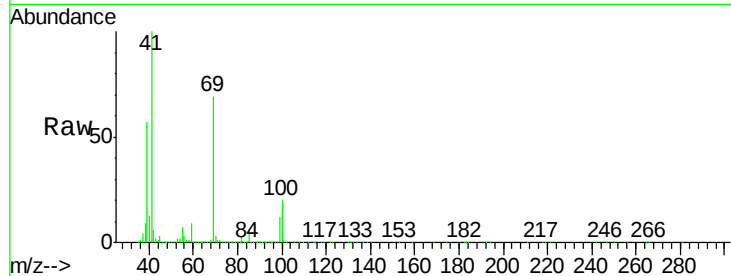
#43
Methvl Methacrplate
Concen: 12.63 ppbv
RT: 8.21 min Scan# 2214
Delta R.T. -0.01 min
Lab File: VL032354.D
Acq: 15 Aug 2018 13:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 69 Resp: 2715418
Ion Ratio Lower Upper
69 100
41 148.4 120.6 180.8
100 29.1 23.2 34.8

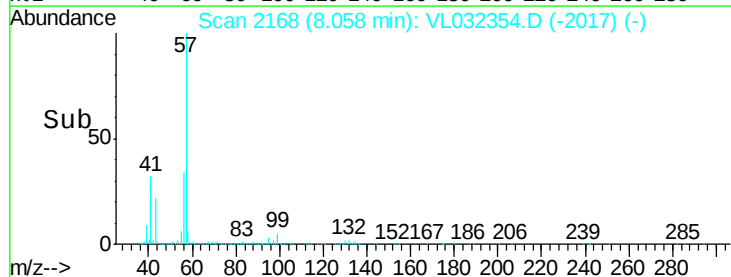
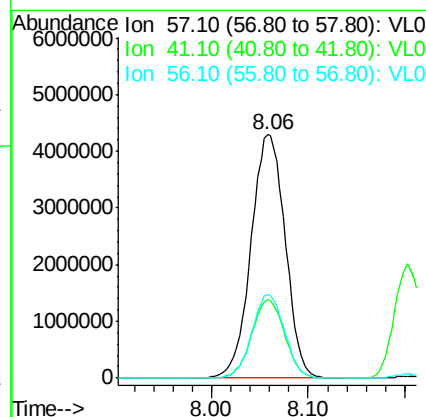
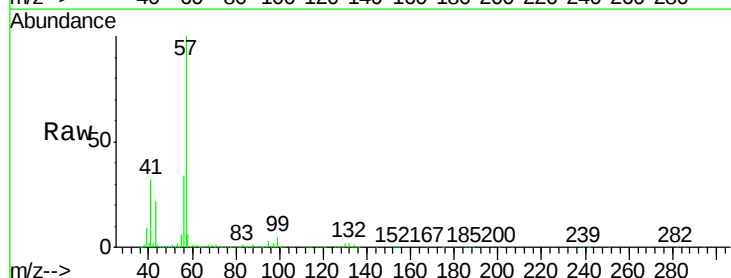
Manual Integrations
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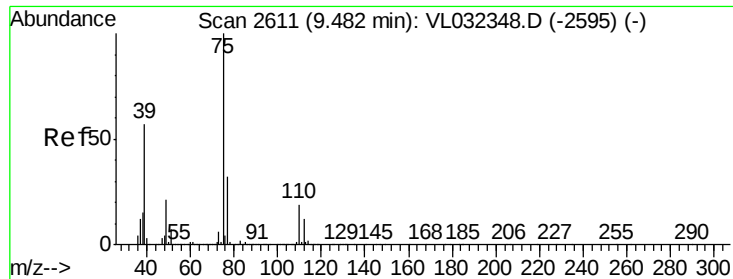
MMDadoda
8/17/2018 2:06:33 PM



#44
2,2,4-Trimethylpentane
Concen: 10.84 ppbv
RT: 8.06 min Scan# 2168
Delta R.T. -0.02 min
Lab File: VL032354.D
Acq: 15 Aug 2018 13:56

Tgt Ion: 57 Resp: 10522771
Ion Ratio Lower Upper
57 100
41 31.0 24.3 36.5
56 32.7 25.4 38.2





#45

t-1,3-Dichloropropene

Concen: 15.05 ppbv

RT: 9.49 min Scan# 2612

Delta R.T. -0.02 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

Tot Ion: 75 Resp: 3748033

Ion Ratio Lower Upper

75 100

77 31.6 26.2 39.4

Instrument :

MSVOA_L

ClientSampleId :

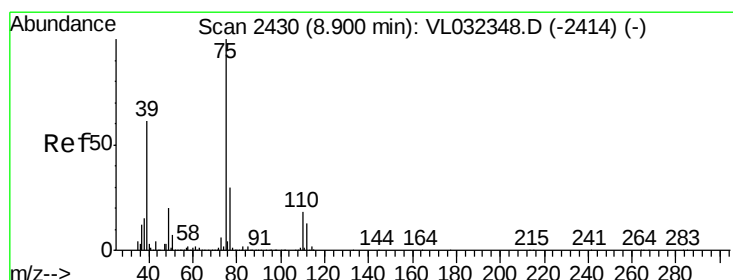
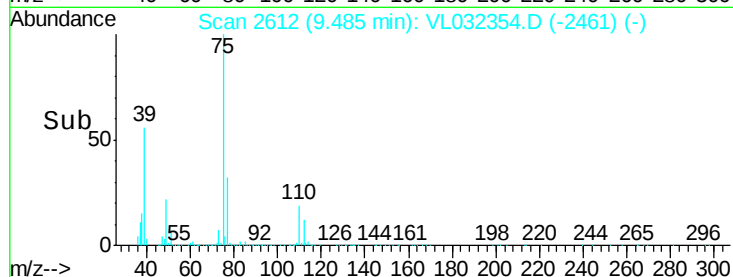
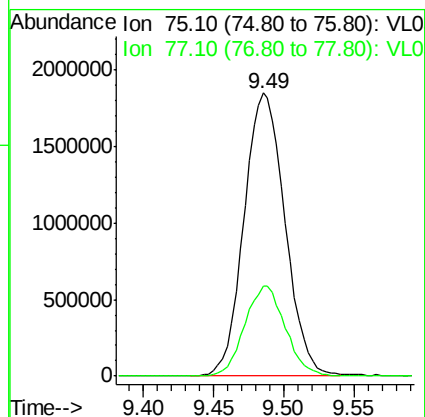
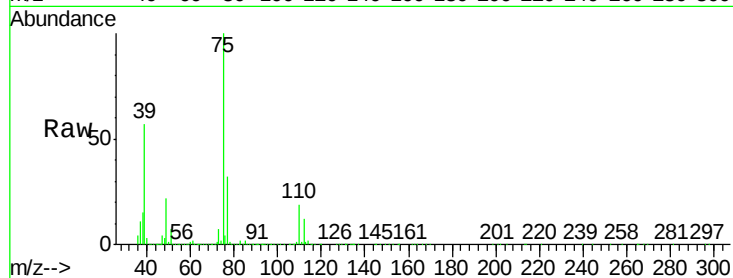
VSTDIC015

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#46

cis-1,3-Dichloropropene

Concen: 14.18 ppbv

RT: 8.90 min Scan# 2431

Delta R.T. -0.02 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

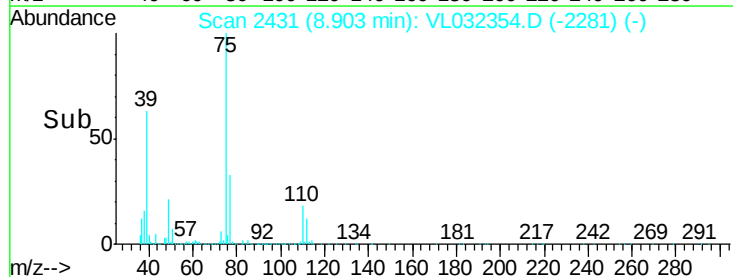
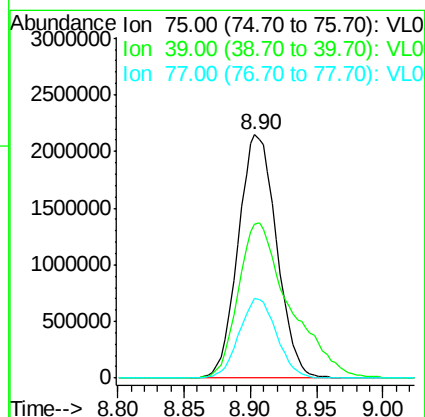
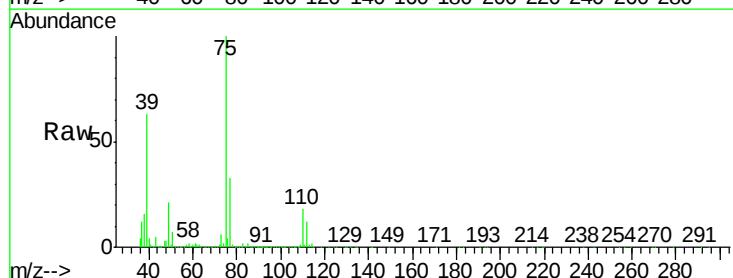
Tgt Ion: 75 Resp: 4325203

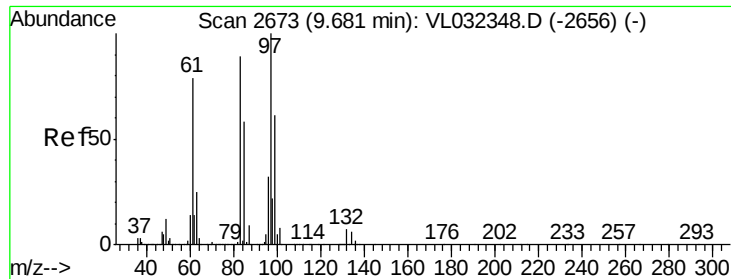
Ion Ratio Lower Upper

75 100

39 63.2 50.9 76.3

77 32.9 25.7 38.5





#47

1,1,2-Trichloroethane

Concen: 12.26 ppbv

RT: 9.68 min Scan# 2674

Delta R.T. -0.02 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 97 Resp: 2685088

Ion Ratio Lower Upper

97 100

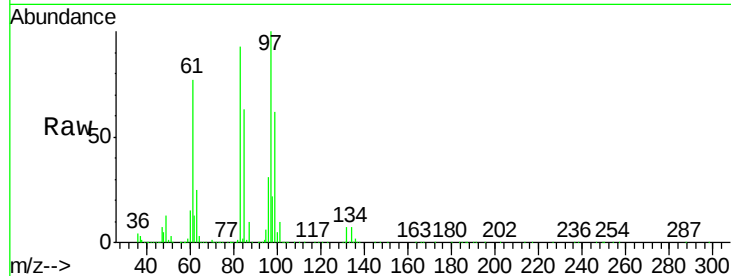
83 92.6 73.0 109.6

85 62.2 48.1 72.1

99 61.8 48.5 72.7

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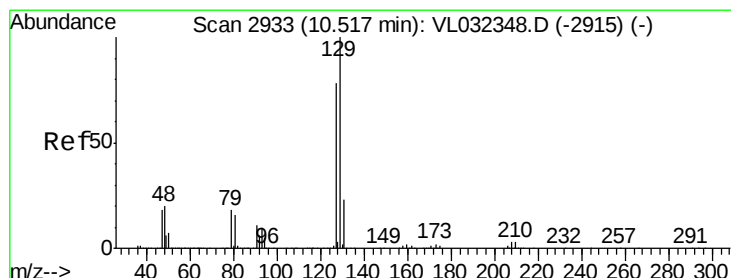
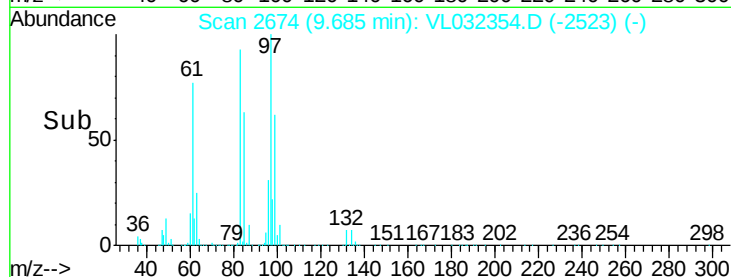
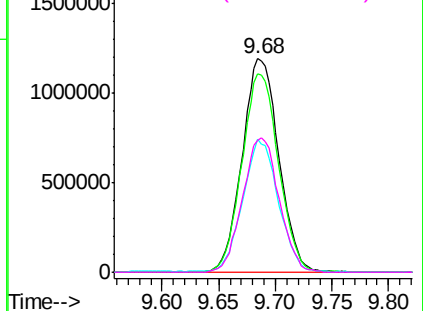


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 11.89 ppbv

RT: 10.52 min Scan# 2935

Delta R.T. -0.02 min

Lab File: VL032354.D

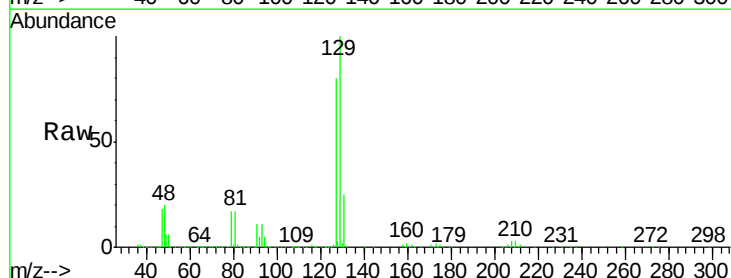
Acq: 15 Aug 2018 13:56

Tgt Ion: 129 Resp: 3838960

Ion Ratio Lower Upper

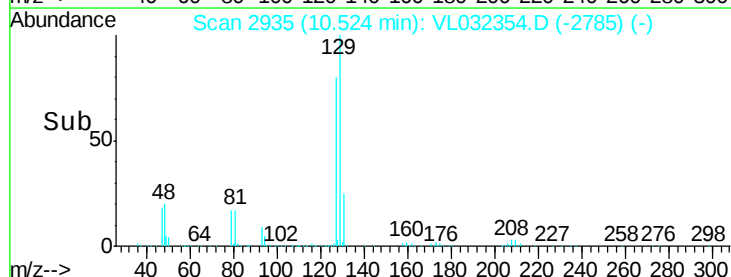
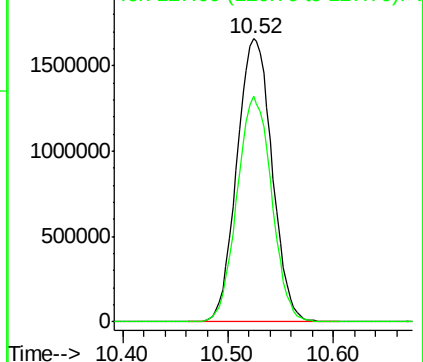
129 100

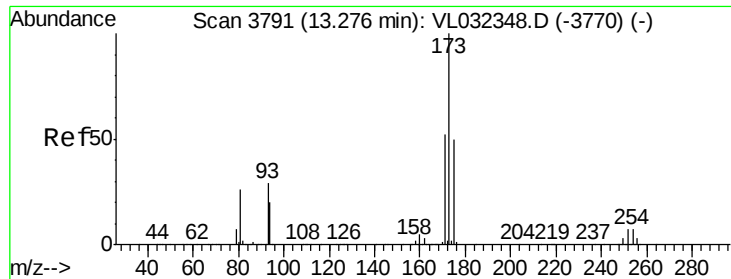
127 78.5 39.5 118.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





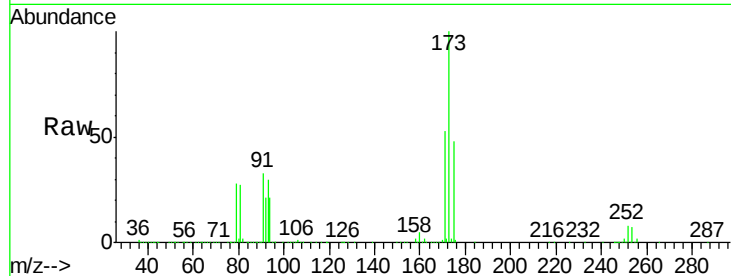
#49
Bromoform
Concen: 11.64 ppbv
RT: 13.28 min Scan# 3791
Delta R.T. -0.02 min
Lab File: VL032354.D
Acq: 15 Aug 2018 13:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

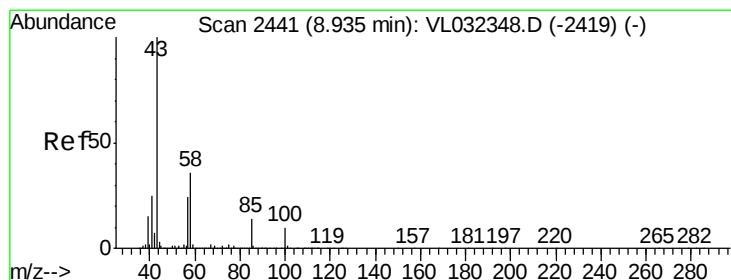
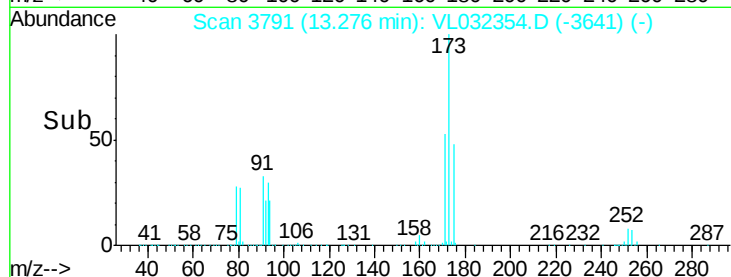
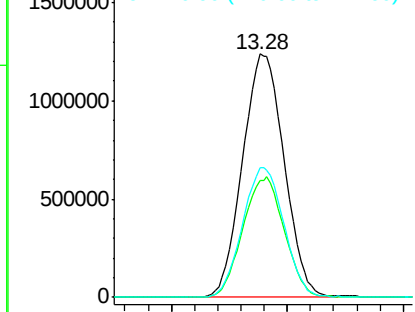
Tot Ion:173 Resp: 3093607
Ion Ratio Lower Upper
173 100
175 49.3 38.9 58.3
171 53.3 42.2 63.2

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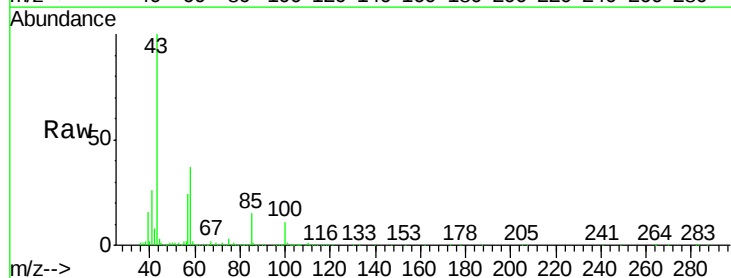


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V

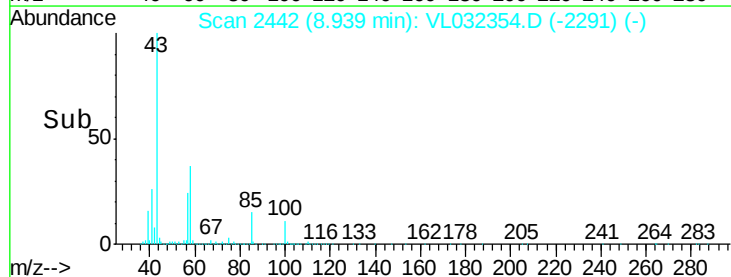
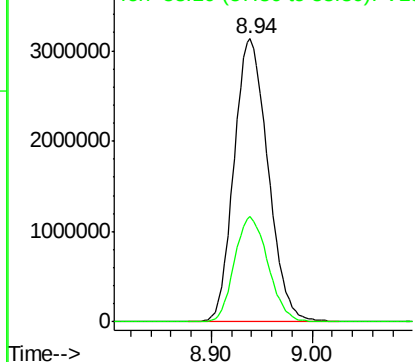


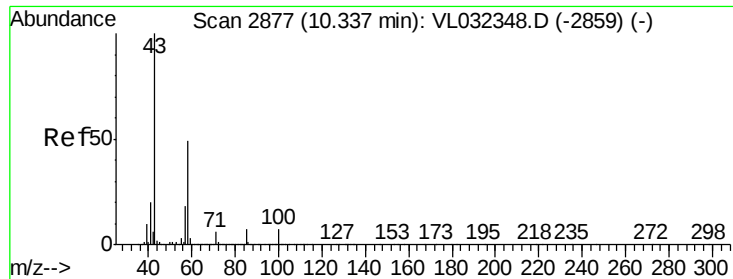
#50
4-Methyl-2-Pentanone
Concen: 12.62 ppbv
RT: 8.94 min Scan# 2442
Delta R.T. -0.02 min
Lab File: VL032354.D
Acq: 15 Aug 2018 13:56

Tgt Ion: 43 Resp: 7318182
Ion Ratio Lower Upper
43 100
58 36.7 28.9 43.3



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0





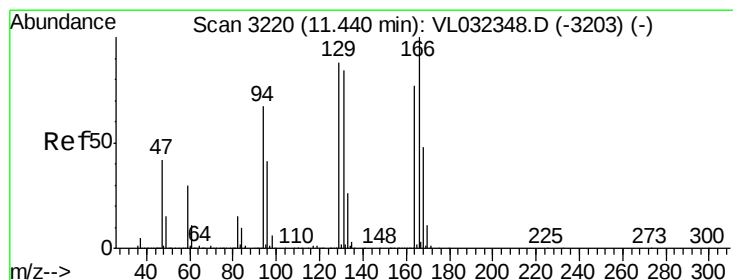
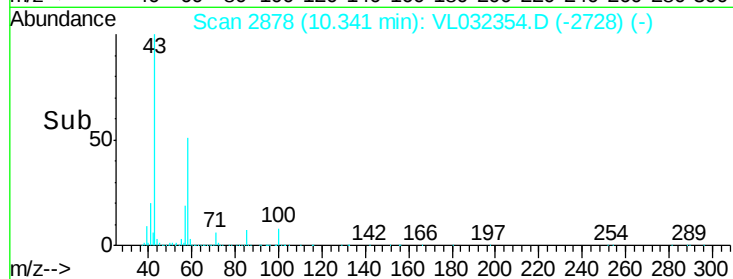
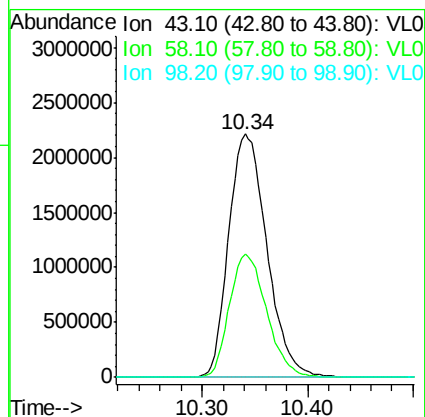
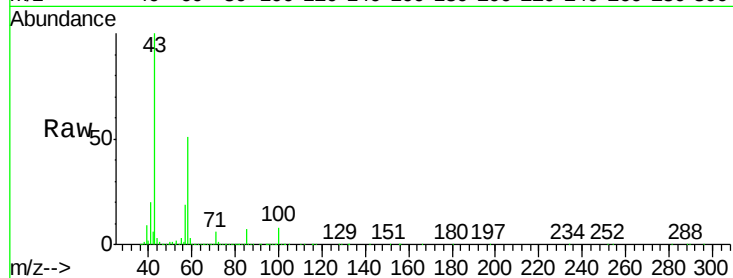
#51
2-Hexanone
Concen: 12.58 ppbv
RT: 10.34 min Scan# 2878
Delta R.T. -0.02 min
Lab File: VL032354.D
Acq: 15 Aug 2018 13:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 43 Resp: 5560133
Ion Ratio Lower Upper
43 100
58 49.5 39.1 58.7
98 0.2 0.3 0.5#

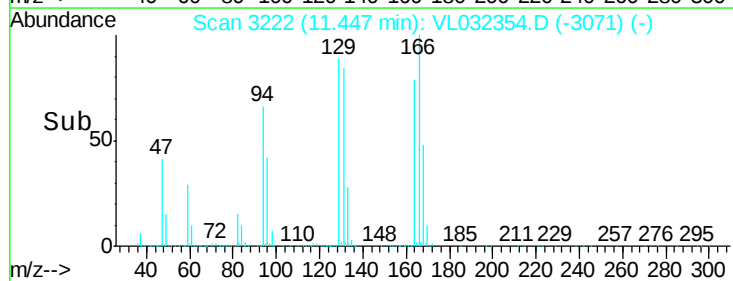
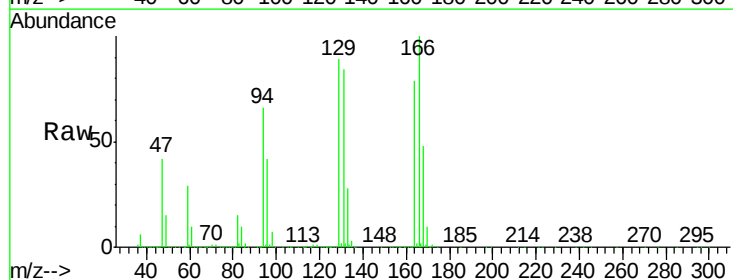
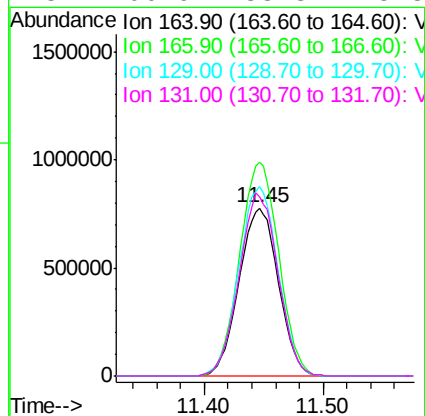
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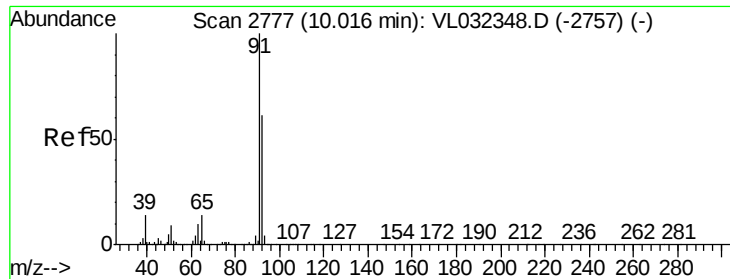
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#52
Tetrachloroethene
Concen: 11.76 ppbv
RT: 11.45 min Scan# 3222
Delta R.T. -0.02 min
Lab File: VL032354.D
Acq: 15 Aug 2018 13:56

Tgt Ion: 164 Resp: 1773663
Ion Ratio Lower Upper
164 100
166 127.0 100.0 150.0
129 112.8 87.9 131.9
131 106.9 83.8 125.8





#53

Toluene

Concen: 13.68 ppbv

RT: 10.02 min Scan# 2778

Delta R.T. -0.01 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 7323573

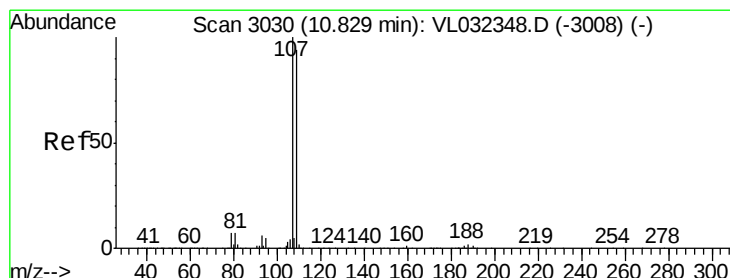
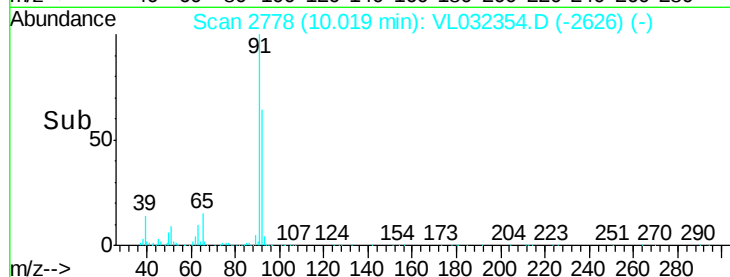
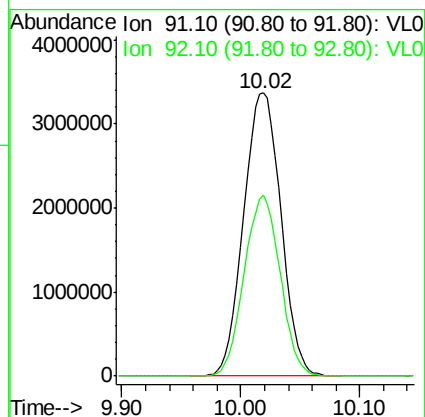
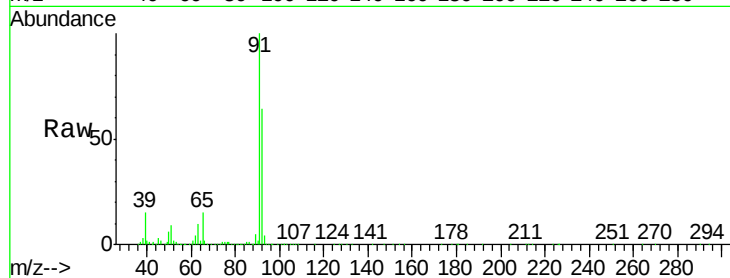
Ion Ratio Lower Upper

91 100

92 61.6 48.6 72.8

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#54

1,2-Dibromoethane

Concen: 11.72 ppbv

RT: 10.83 min Scan# 3031

Delta R.T. -0.02 min

Lab File: VL032354.D

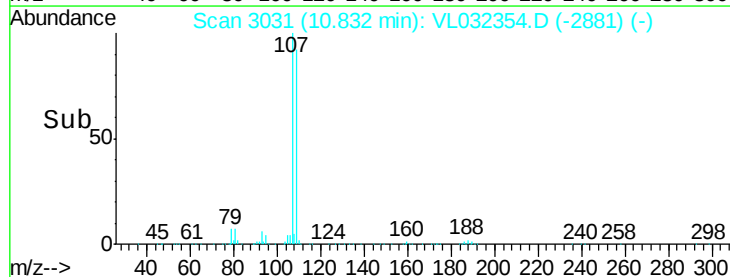
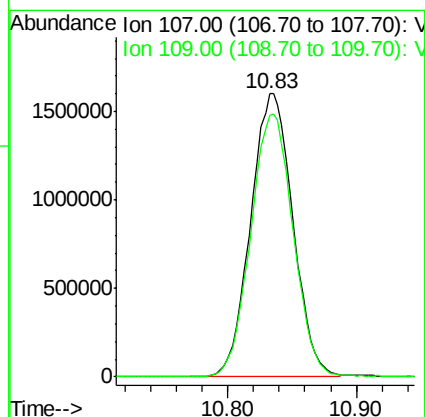
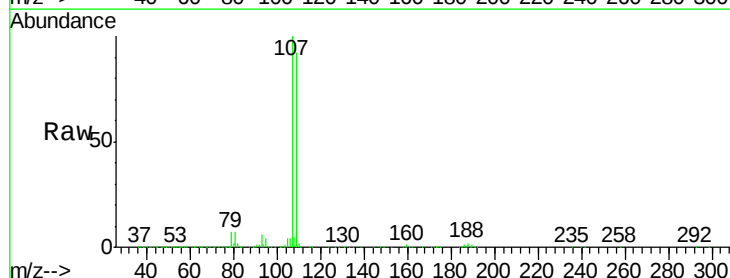
Acq: 15 Aug 2018 13:56

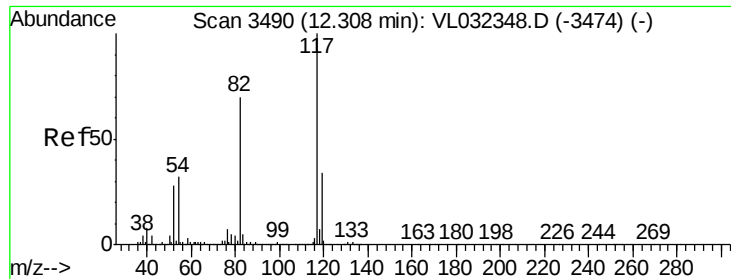
Tgt Ion: 107 Resp: 3646165

Ion Ratio Lower Upper

107 100

109 92.2 74.1 111.1





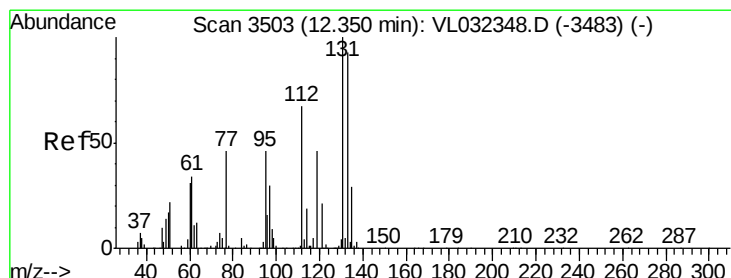
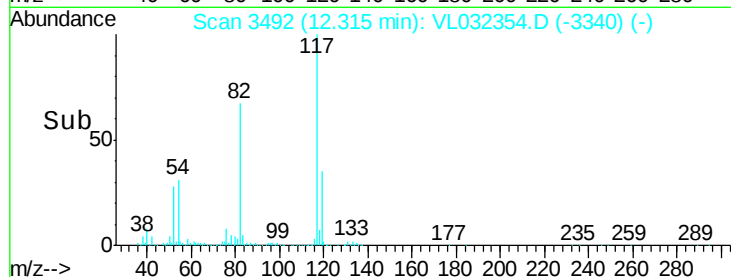
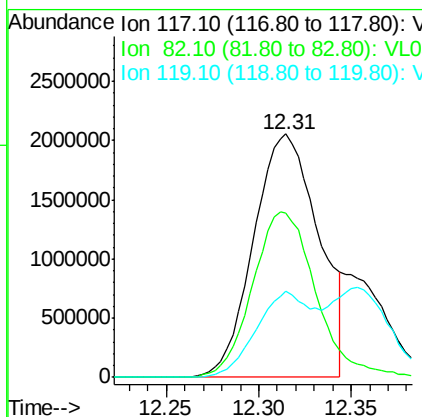
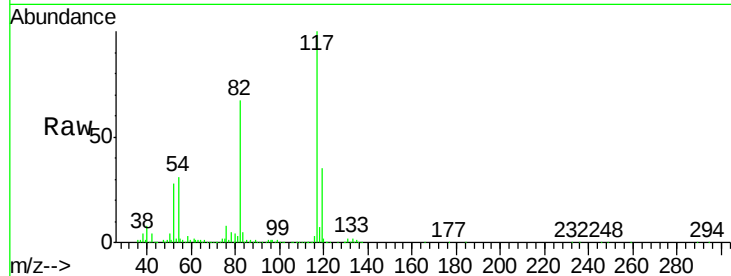
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.31 min Scan# 3492
Delta R.T. -0.01 min
Lab File: VL032354.D
Acq: 15 Aug 2018 13:56

Instrument :
MSVOA_L
ClientSampled :
VSTDIC015

Tot Ion:117 Resp: 5040209
Ion Ratio Lower Upper
117 100
82 66.4 52.6 78.8
119 27.1 25.7 38.5

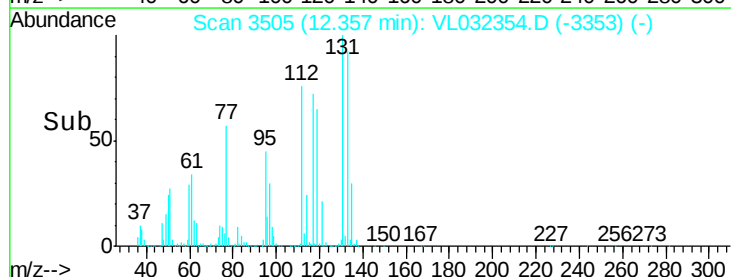
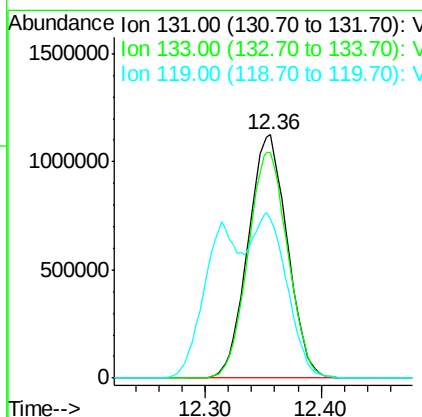
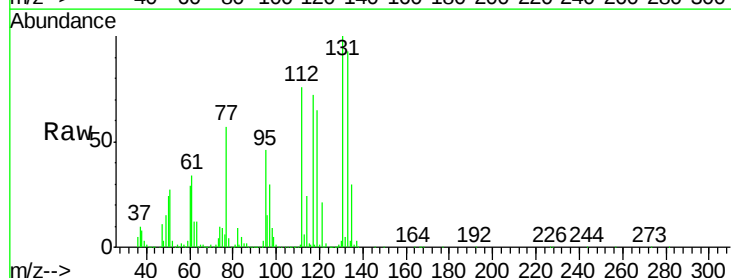
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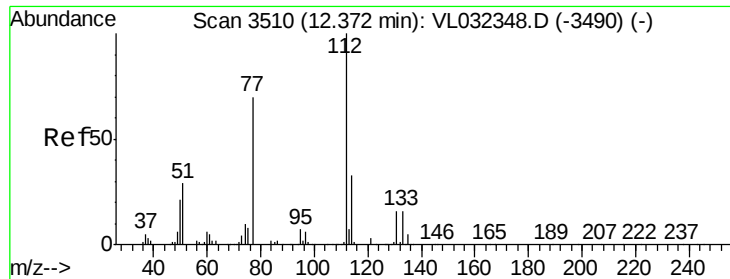
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#56
1,1,1,2-Tetrachloroethane
Concen: 12.75 ppbv
RT: 12.36 min Scan# 3505
Delta R.T. -0.01 min
Lab File: VL032354.D
Acq: 15 Aug 2018 13:56

Tgt Ion:131 Resp: 2649784
Ion Ratio Lower Upper
131 100
133 94.4 75.8 113.6
119 66.1 48.1 72.1





#57

Chlorobenzene

Concen: 12.24 ppbv

RT: 12.38 min Scan# 3512

Delta R.T. -0.02 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:112 Resp: 4795967

Ion Ratio Lower Upper

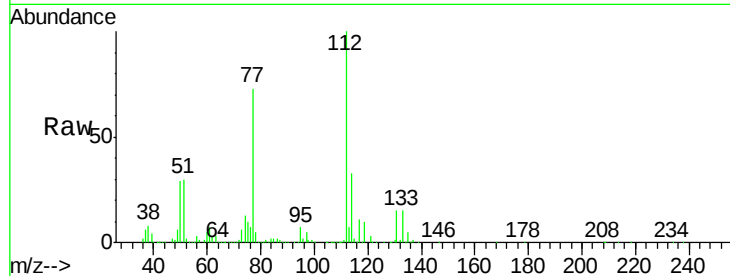
112 100

77 72.9 56.5 84.7

114 33.2 28.4 34.7

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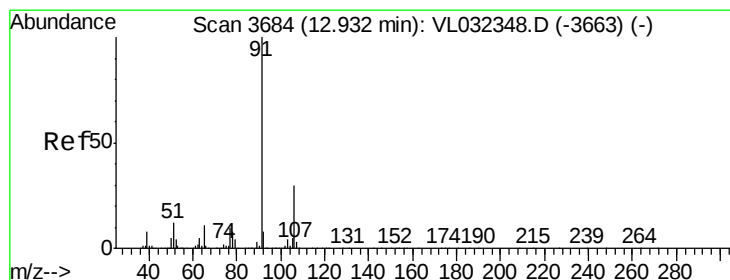
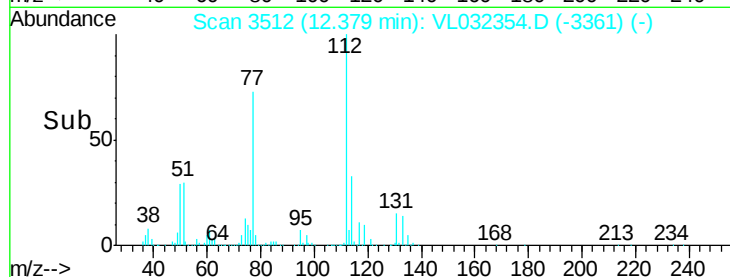
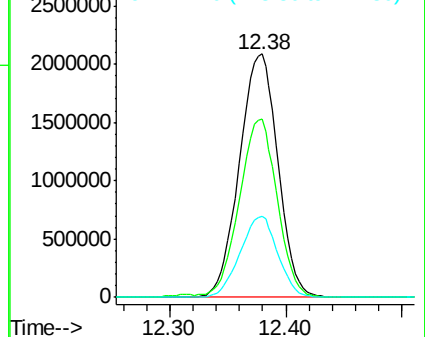
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 14.01 ppbv

RT: 12.94 min Scan# 3685

Delta R.T. -0.02 min

Lab File: VL032354.D

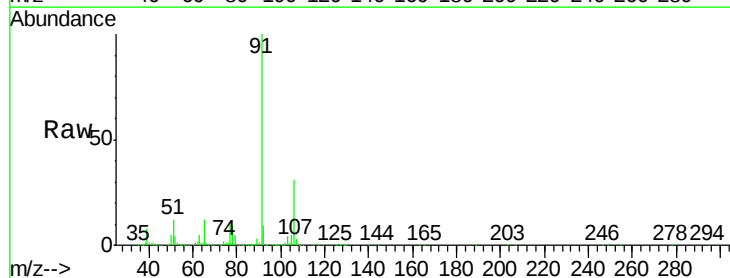
Acq: 15 Aug 2018 13:56

Tgt Ion: 91 Resp: 8850739

Ion Ratio Lower Upper

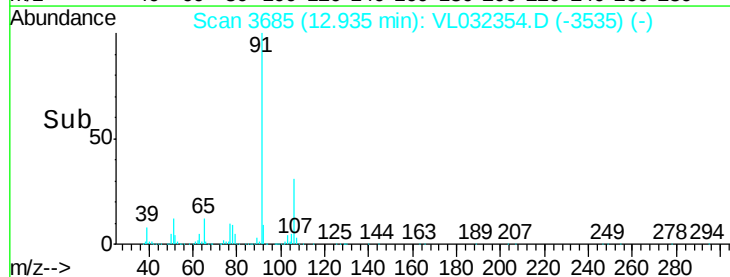
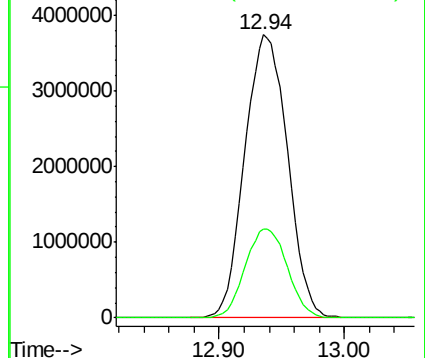
91 100

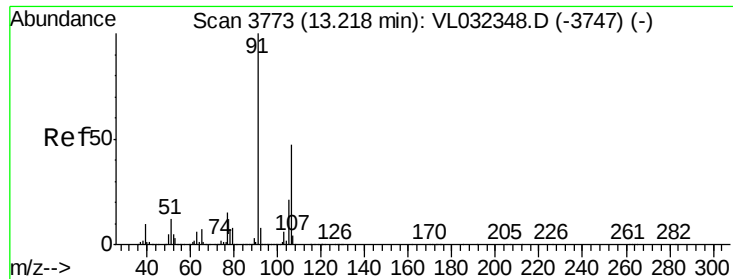
106 31.2 25.0 37.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





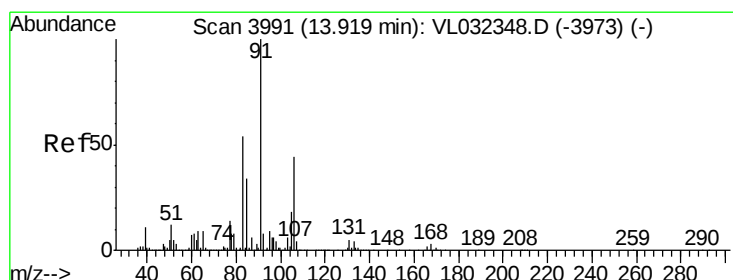
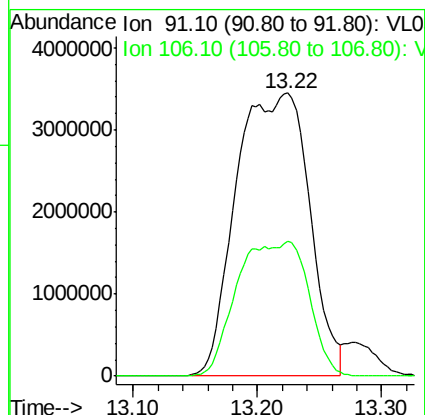
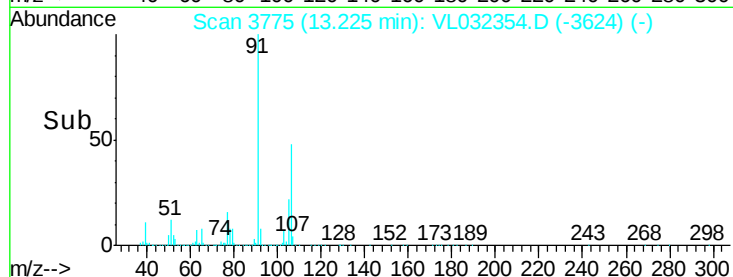
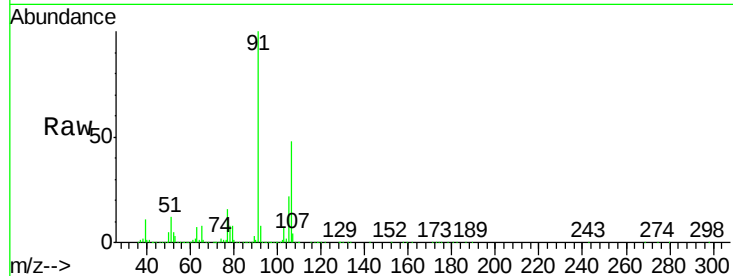
#59
m/p-Xylene
Concen: 26.17 ppbv m
RT: 13.22 min Scan# 3775
Delta R.T. -0.02 min
Lab File: VL032354.D
Acq: 15 Aug 2018 13:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 91 Resp: 14081127
Ion Ratio Lower Upper
91 100
106 46.6 36.4 54.6

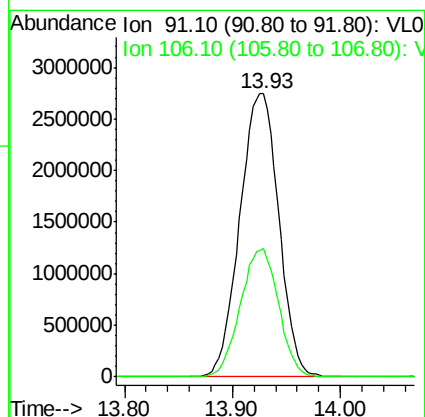
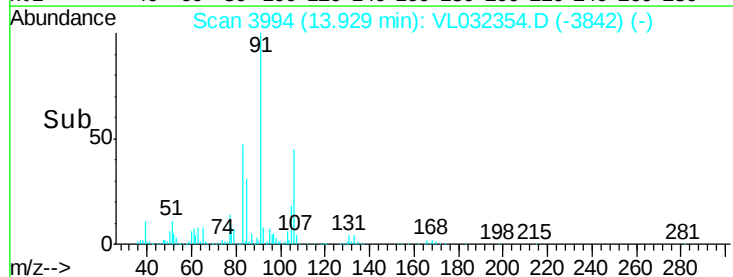
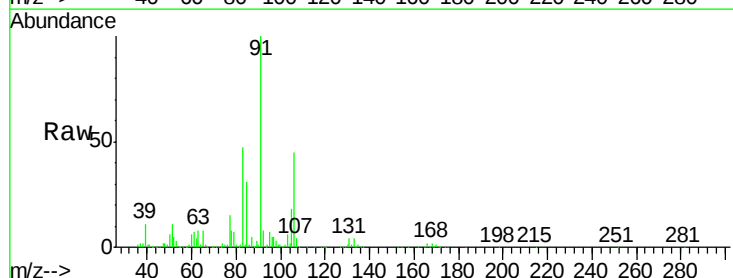
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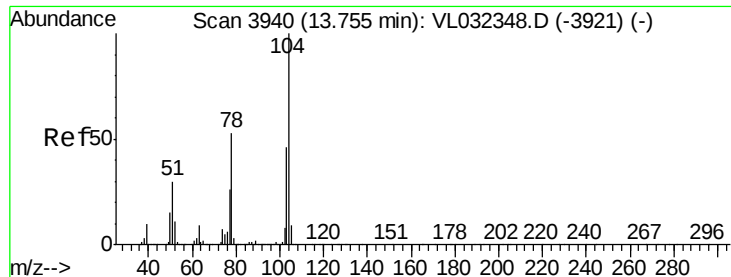
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#60
o-Xylene
Concen: 13.02 ppbv
RT: 13.93 min Scan# 3994
Delta R.T. -0.01 min
Lab File: VL032354.D
Acq: 15 Aug 2018 13:56

Tgt Ion: 91 Resp: 6868751
Ion Ratio Lower Upper
91 100
106 44.6 22.4 67.0





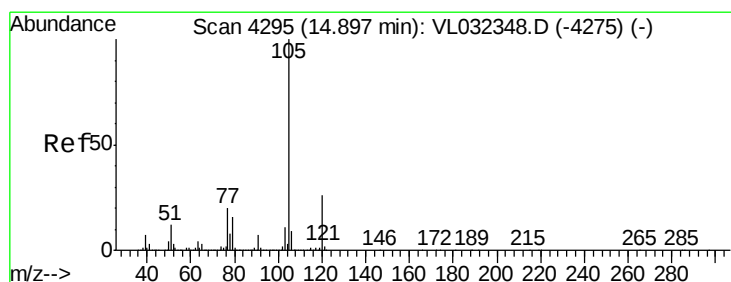
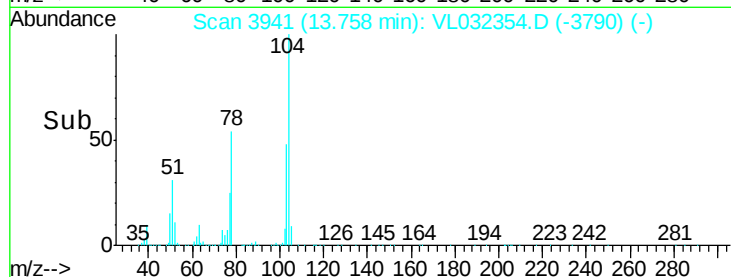
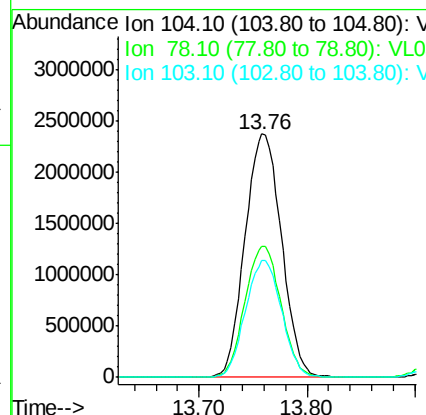
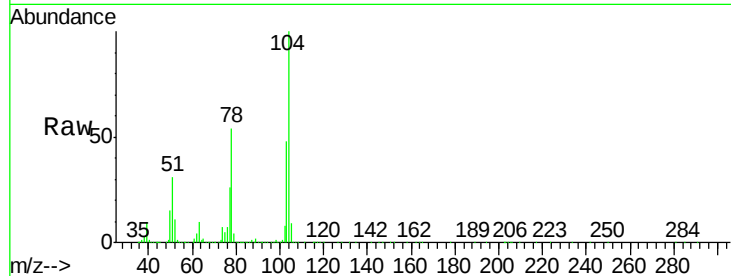
#61
Stvrene
Concen: 14.38 ppbv
RT: 13.76 min Scan# 3941
Delta R.T. -0.02 min
Lab File: VL032354.D
Acq: 15 Aug 2018 13:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
104	100		
78	53.2	42.6	63.8
103	47.7	38.0	57.0

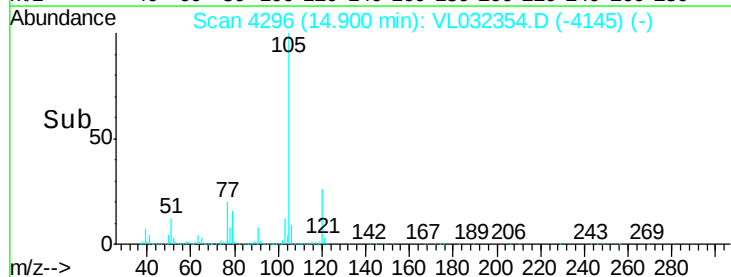
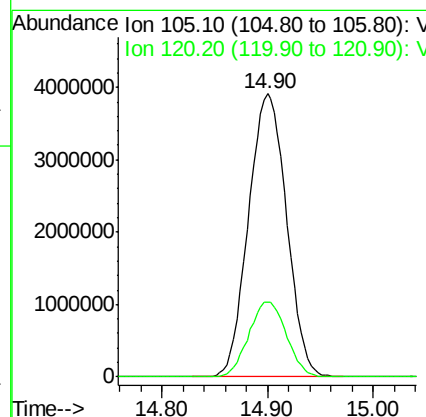
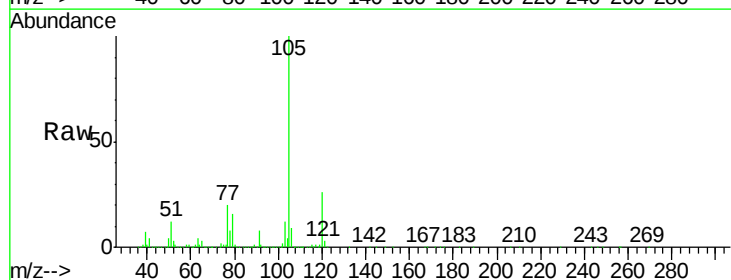
Manual Integrations
APPROVED

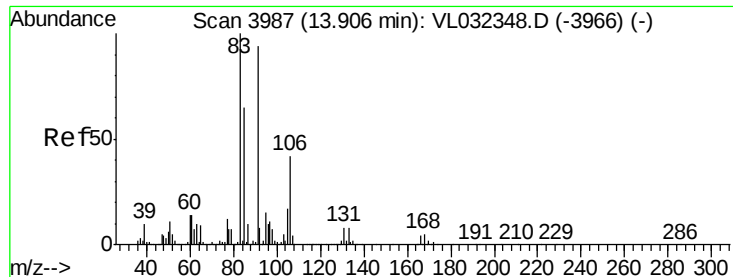
MMDadoda
8/17/2018 2:06:33 PM



#62
Isopropylbenzene
Concen: 13.12 ppbv
RT: 14.90 min Scan# 4296
Delta R.T. -0.02 min
Lab File: VL032354.D
Acq: 15 Aug 2018 13:56

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.2	20.4	30.6





#63

1,1,2,2-Tetrachloroethane

Concen: 12.09 ppbv

RT: 13.91 min Scan# 3989

Delta R.T. -0.01 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 83 Resp: 5188675

Ion Ratio Lower Upper

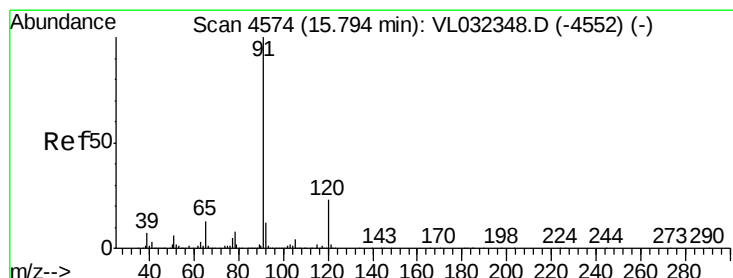
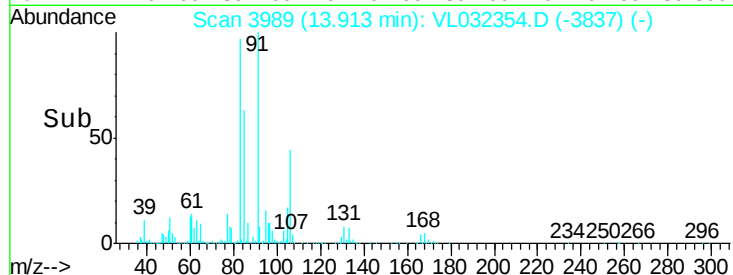
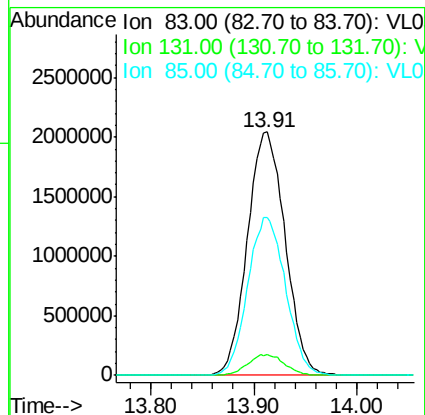
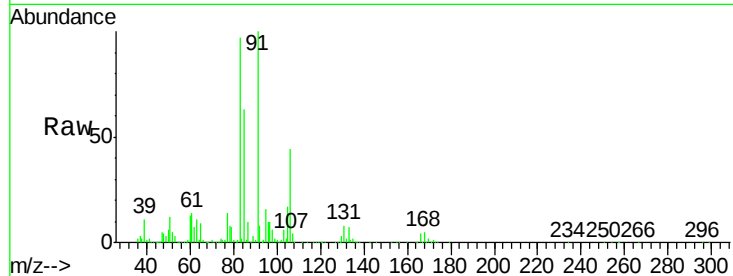
83 100

131 8.4 4.3 12.8

85 65.2 32.6 97.7

Manual Integrations
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#64

n-propylbenzene

Concen: 13.58 ppbv

RT: 15.79 min Scan# 4574

Delta R.T. -0.02 min

Lab File: VL032354.D

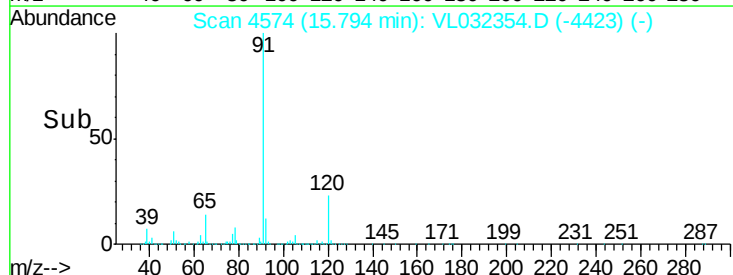
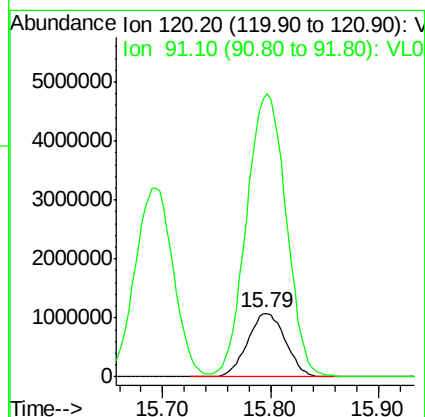
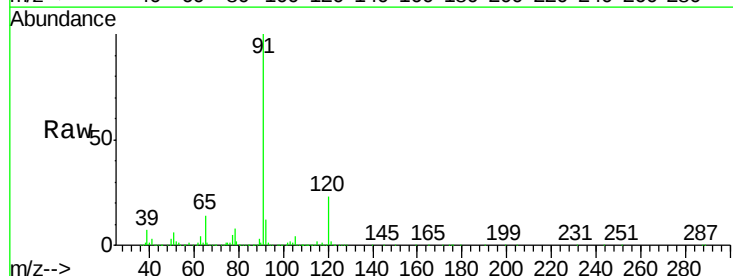
Acq: 15 Aug 2018 13:56

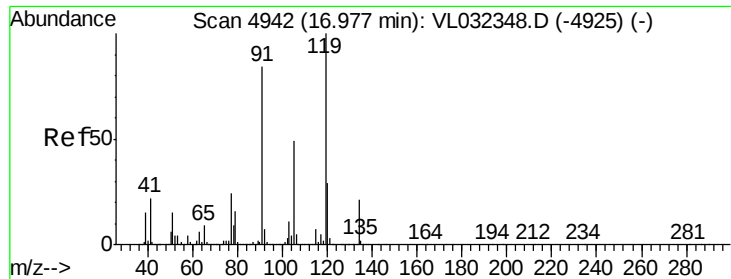
Tgt Ion: 120 Resp: 2648757

Ion Ratio Lower Upper

120 100

91 464.3 381.8 572.8





#65

tert-Butylbenzene

Concen: 12.62 ppbv

RT: 16.98 min Scan# 4943

Delta R.T. -0.02 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:119 Resp: 7988174

Ion Ratio Lower Upper

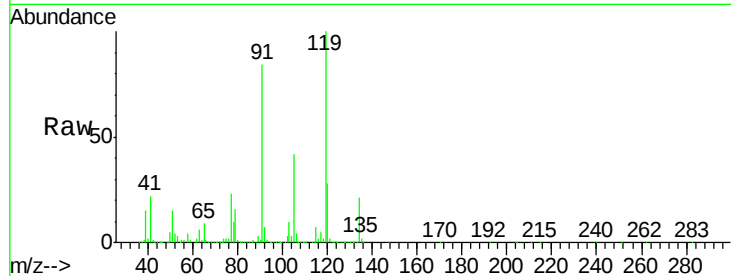
119 100

91 84.3 67.5 101.3

134 19.9 15.8 23.6

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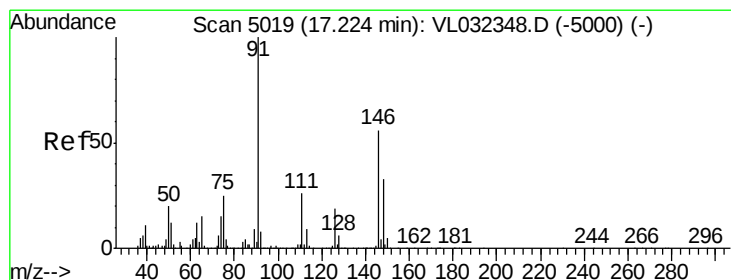
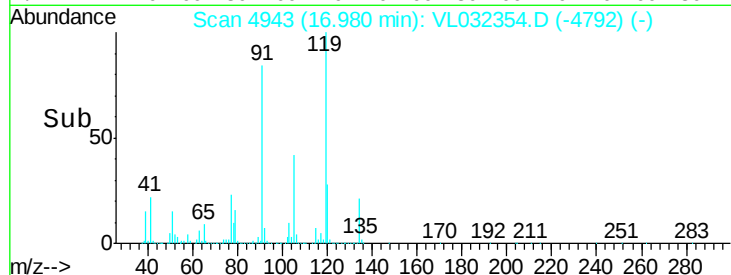
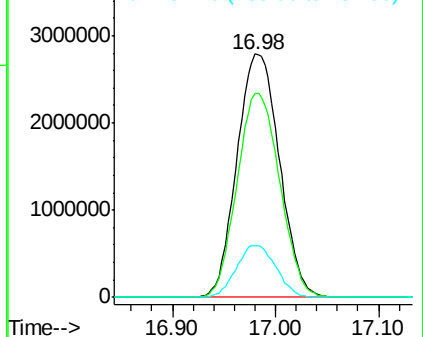
MMDadoda
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 15.14 ppbv

RT: 17.23 min Scan# 5021

Delta R.T. -0.02 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

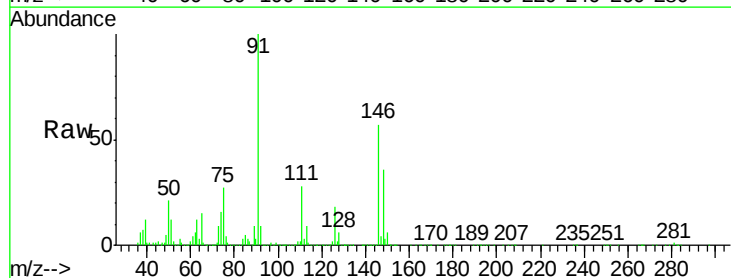
Tgt Ion: 91 Resp: 5711627

Ion Ratio Lower Upper

91 100

126 17.6 13.7 20.5

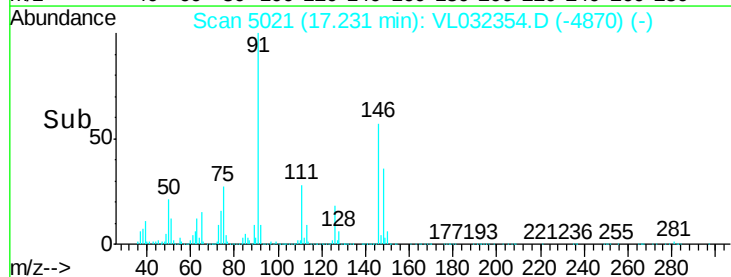
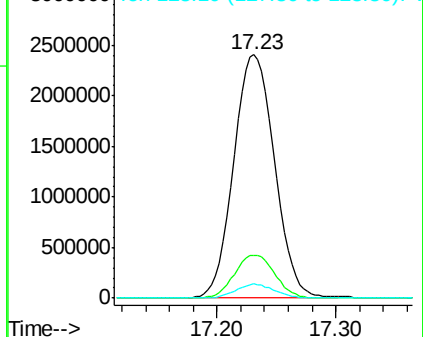
128 5.5 4.3 6.5

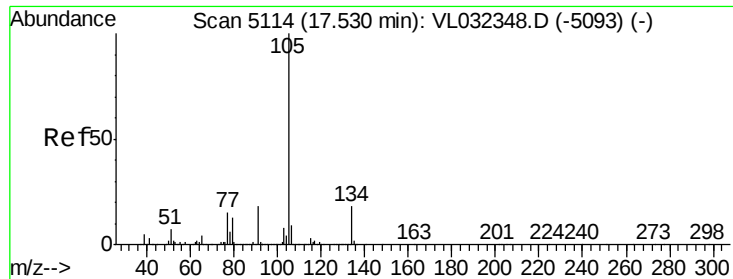


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





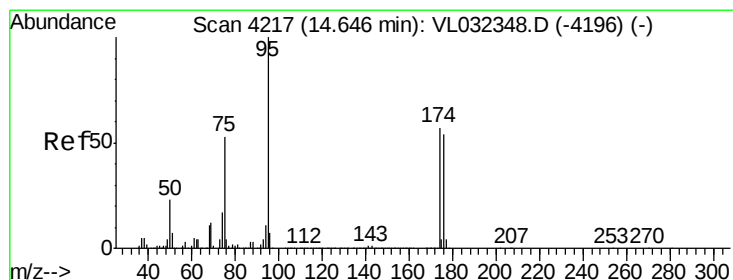
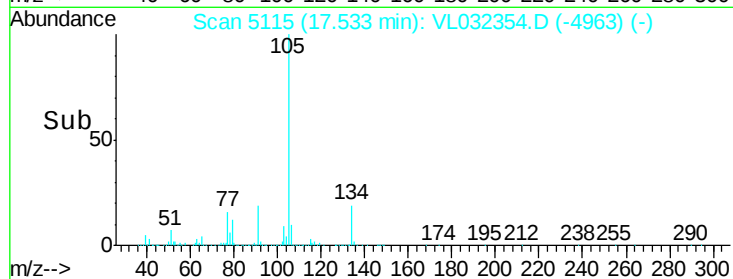
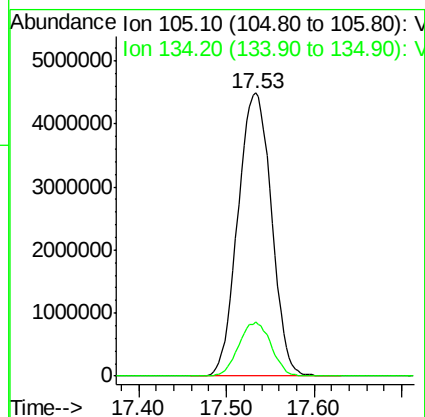
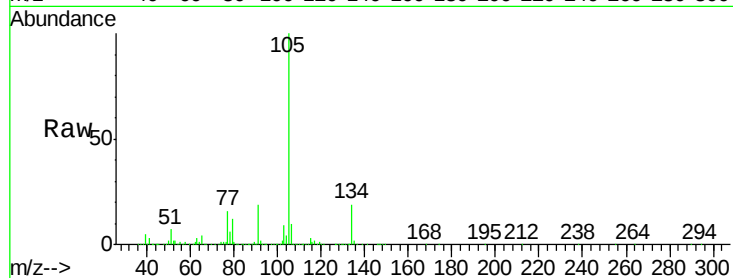
#67
 sec-Butylbenzene
 Concen: 12.60 ppbv
 RT: 17.53 min Scan# 5115
 Delta R.T. -0.01 min
 Lab File: VL032354.D
 Acq: 15 Aug 2018 13:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 105 Resp: 11947691
 Ion Ratio Lower Upper
 105 100
 134 18.4 14.2 21.4

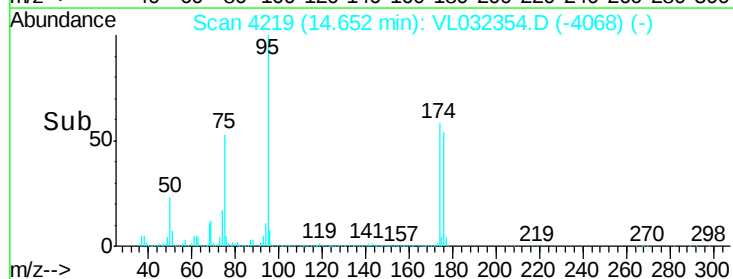
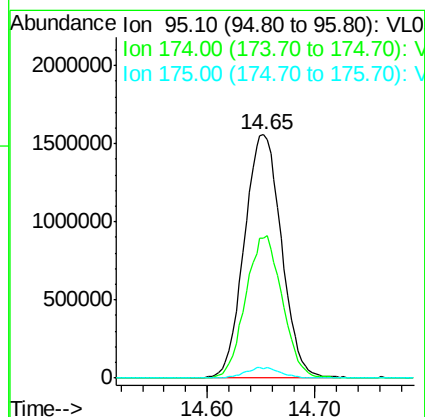
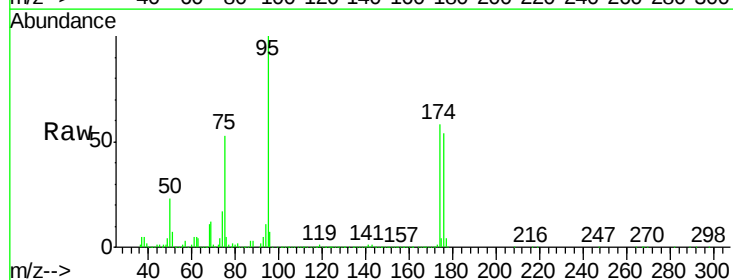
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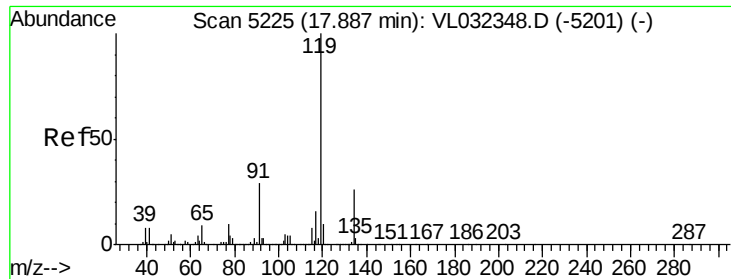
MMDadoda
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.52 ppbv
 RT: 14.65 min Scan# 4219
 Delta R.T. -0.02 min
 Lab File: VL032354.D
 Acq: 15 Aug 2018 13:56

Tgt Ion: 95 Resp: 3724387
 Ion Ratio Lower Upper
 95 100
 174 58.1 45.5 68.3
 175 4.2 3.3 4.9





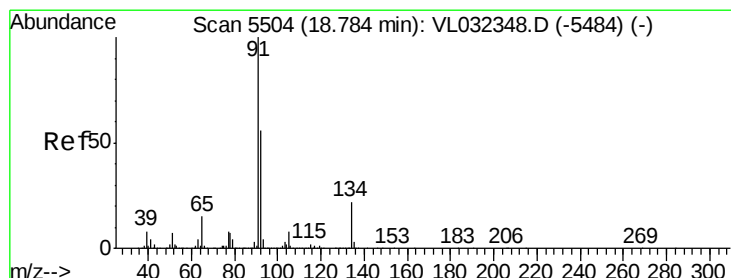
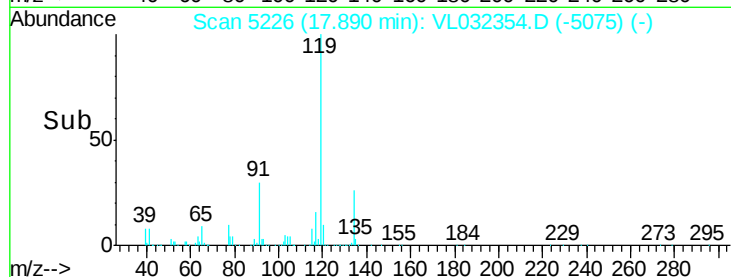
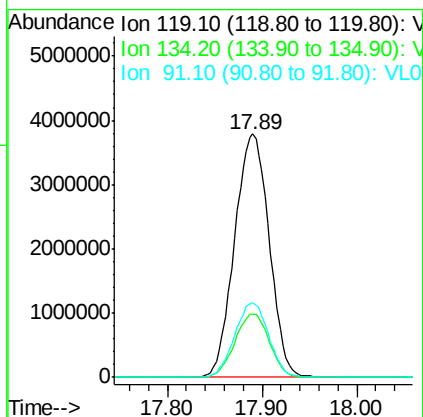
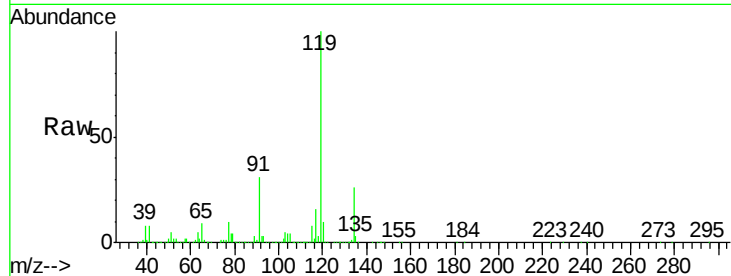
#69
p-Isopropyltoluene
Concen: 13.08 ppbv
RT: 17.89 min Scan# 5226
Delta R.T. -0.02 min
Lab File: VL032354.D
Acq: 15 Aug 2018 13:56

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.0	20.3	30.5
91	30.1	23.8	35.6

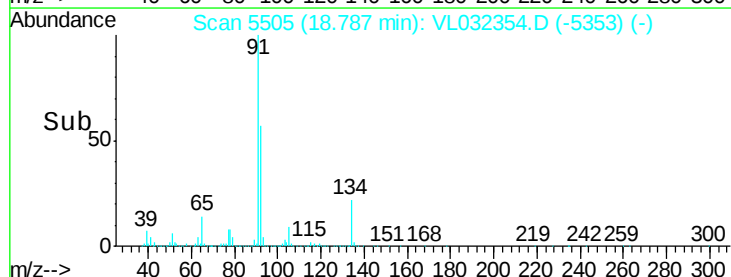
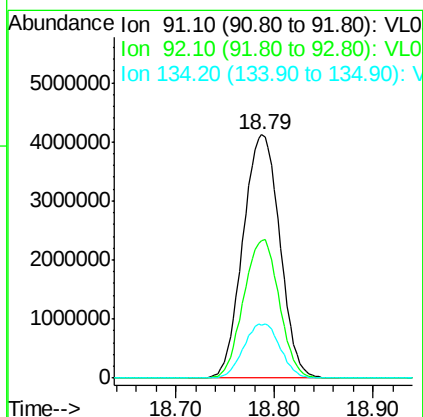
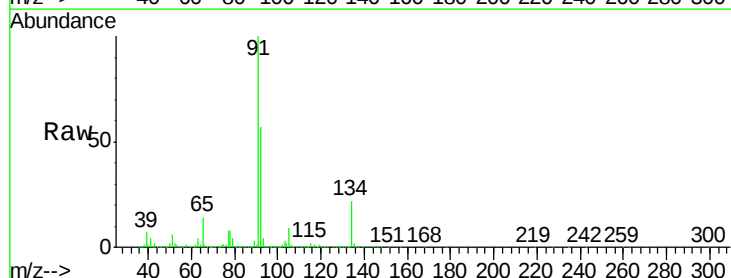
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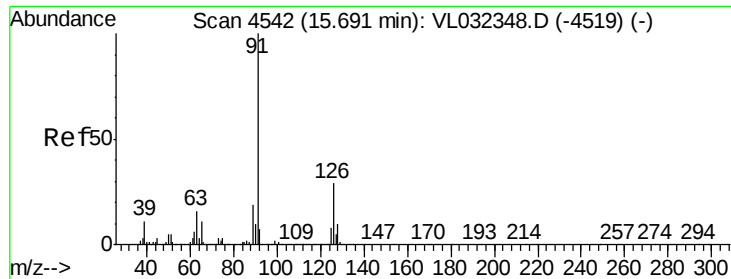
MMDadoda
8/17/2018 2:06:33 PM



#70
n-Butylbenzene
Concen: 12.50 ppbv
RT: 18.79 min Scan# 5505
Delta R.T. -0.01 min
Lab File: VL032354.D
Acq: 15 Aug 2018 13:56

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.3	44.2	66.4
134	22.1	17.4	26.2





#71

2-Chlorotoluene

Concen: 13.47 ppbv

RT: 15.69 min Scan# 4542

Delta R.T. -0.02 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

Instrument :

MSVOA_L

ClientSampled :

VSTDIC015

Tot Ion: 91 Resp: 7918936

Ion Ratio Lower Upper

91 100

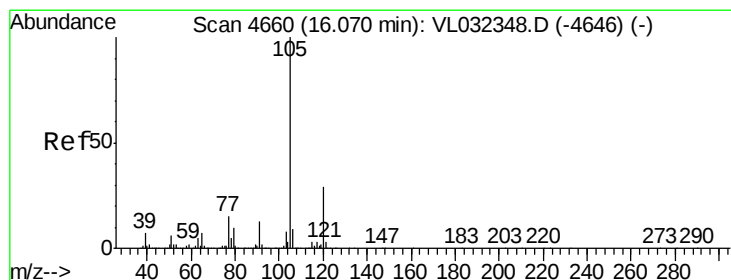
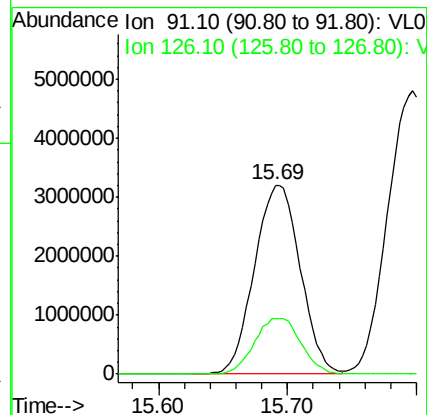
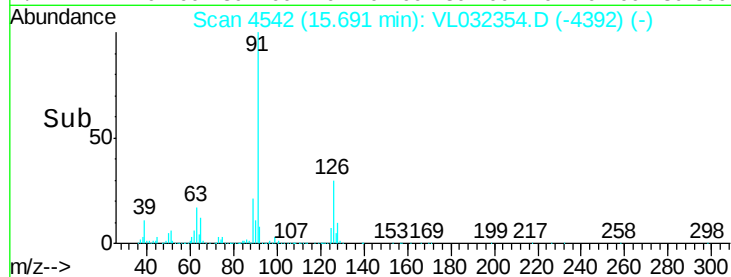
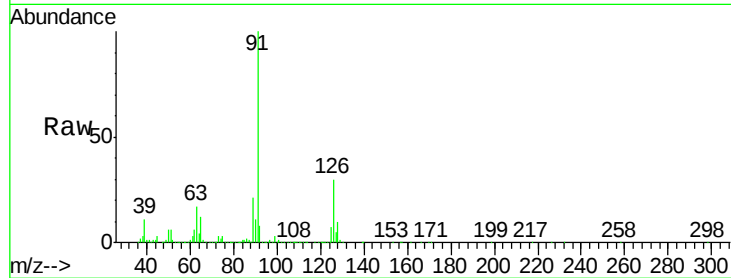
126 30.0 11.8 47.0

Manual Integrations

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#72

4-Ethyltoluene

Concen: 14.11 ppbv

RT: 16.08 min Scan# 4662

Delta R.T. -0.01 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

Tgt Ion: 105 Resp: 8343661

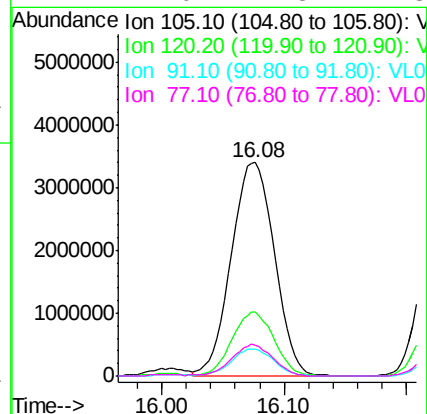
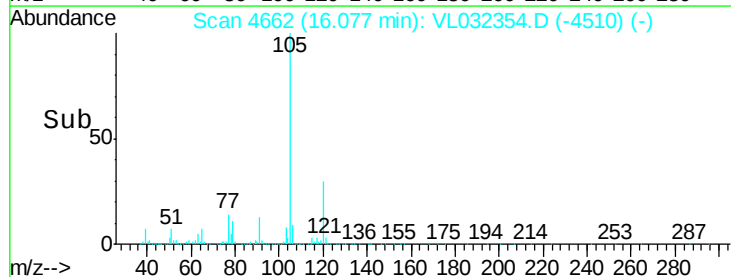
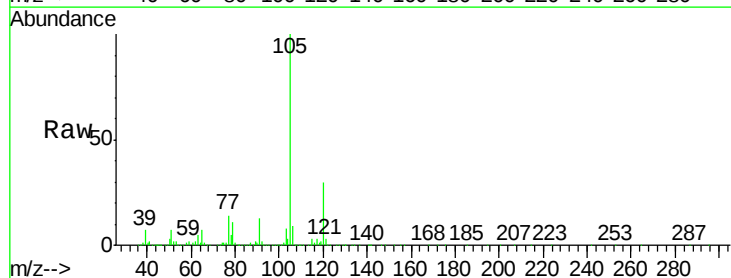
Ion Ratio Lower Upper

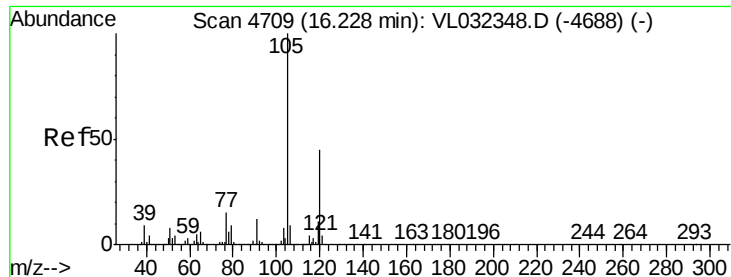
105 100

120 29.4 23.1 34.7

91 12.4 10.0 15.0

77 14.0 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 13.48 ppbv

RT: 16.23 min Scan# 4710

Delta R.T. -0.02 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 7842943

Ion Ratio Lower Upper

105 100

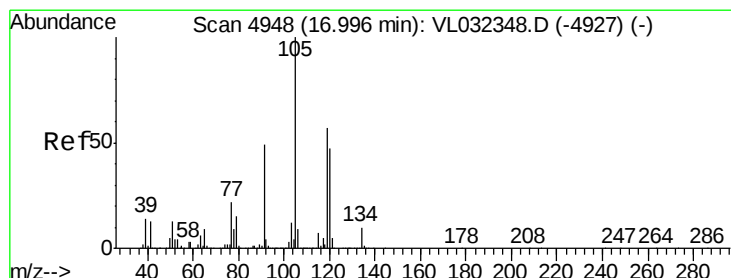
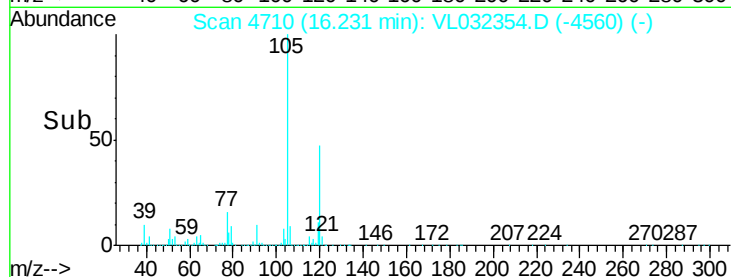
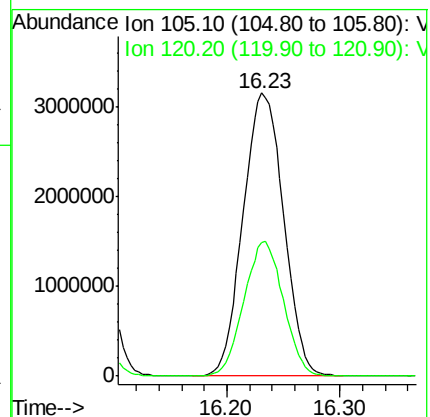
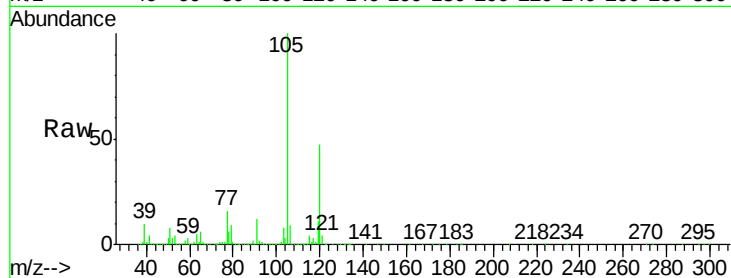
120 47.2 36.5 54.7

Manual Integrations

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#74

1,2,4-Trimethylbenzene

Concen: 12.27 ppbv

RT: 17.00 min Scan# 4950

Delta R.T. -0.01 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

Tgt Ion:105 Resp: 7527785

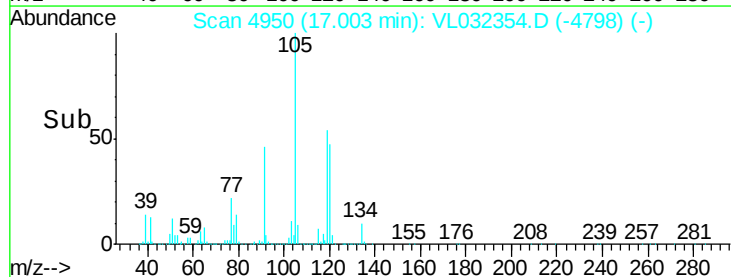
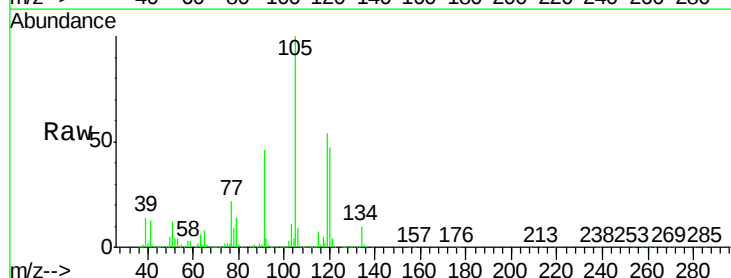
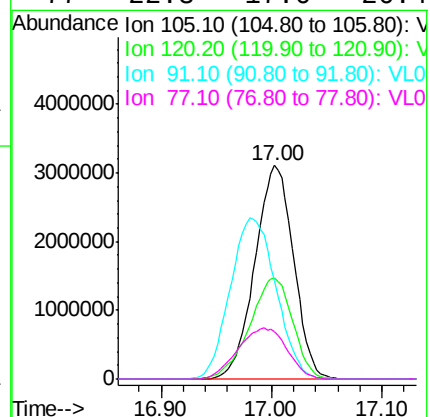
Ion Ratio Lower Upper

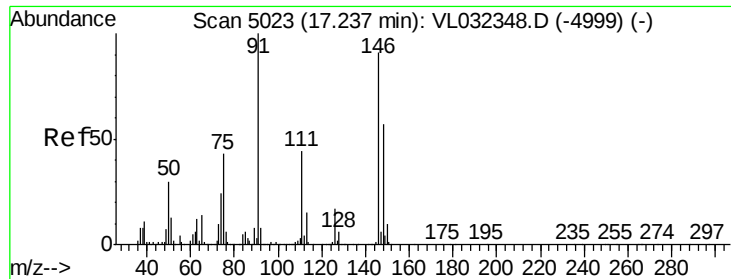
105 100

120 47.2 37.8 56.6

91 45.8 39.4 59.0

77 22.3 17.6 26.4





#75

1,3-Dichlorobenzene

Concen: 12.19 ppbv

RT: 17.24 min Scan# 5025

Delta R.T. -0.01 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 4331508

Ion Ratio Lower Upper

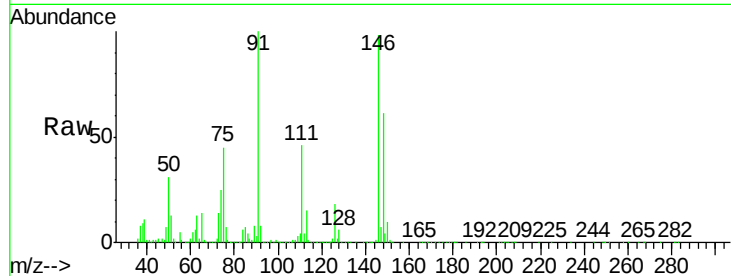
146 100

111 49.0 24.6 73.8

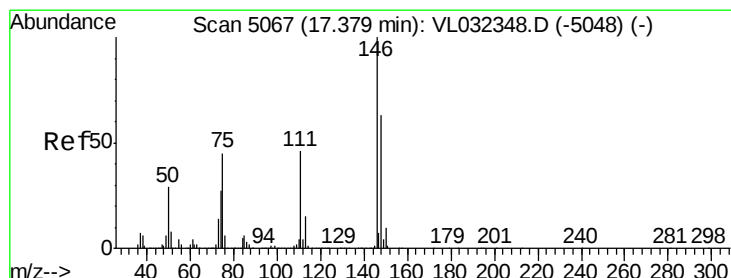
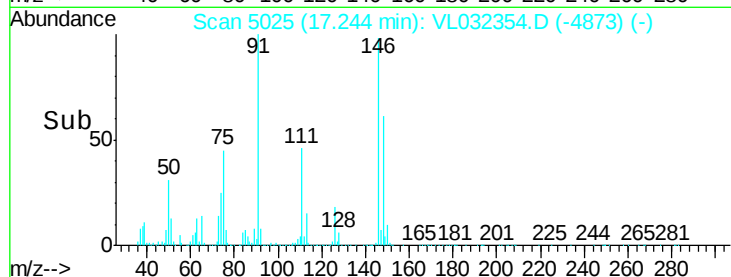
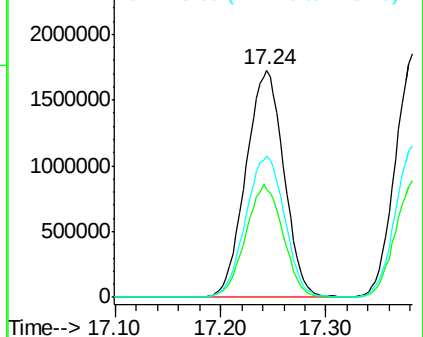
148 63.6 31.6 95.0

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



#76

1,4-Dichlorobenzene

Concen: 13.19 ppbv

RT: 17.38 min Scan# 5068

Delta R.T. -0.02 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

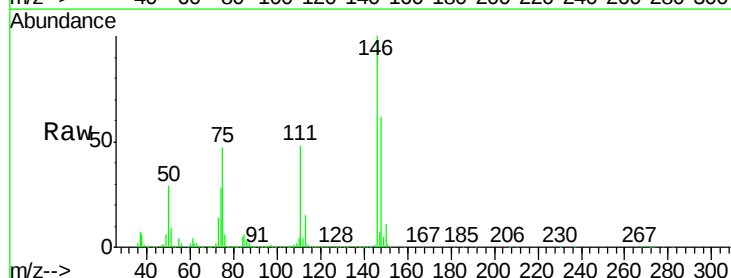
Tgt Ion:146 Resp: 4495466

Ion Ratio Lower Upper

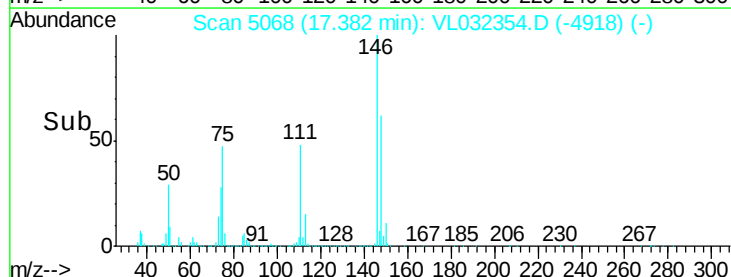
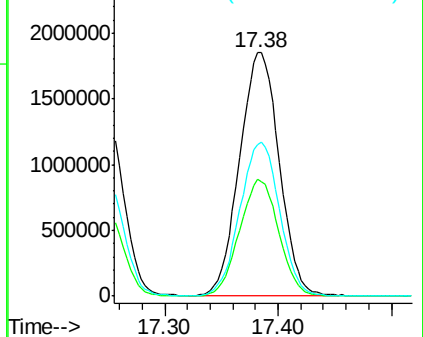
146 100

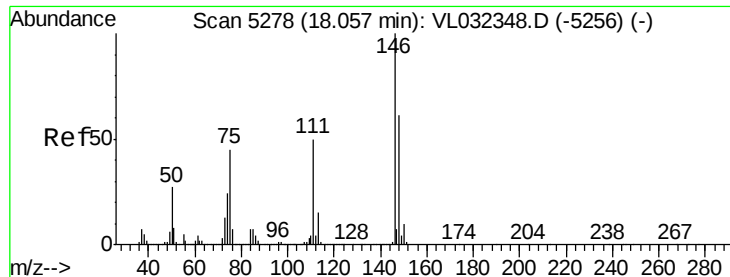
111 47.5 23.6 70.8

148 63.7 32.1 96.3



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





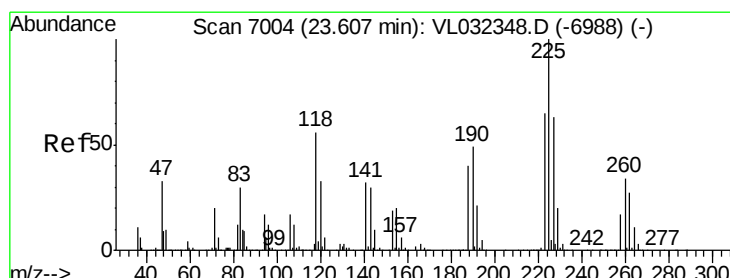
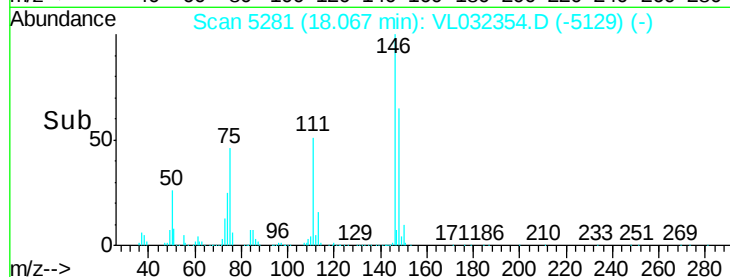
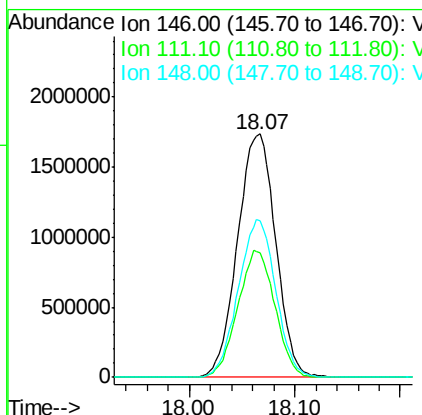
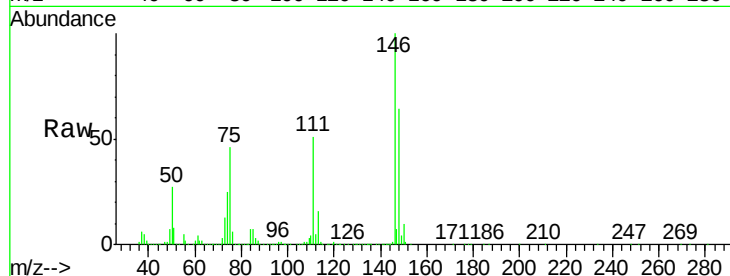
#77
 1,2-Dichlorobenzene
 Concen: 12.55 ppbv
 RT: 18.07 min Scan# 5281
 Delta R.T. -0.01 min
 Lab File: VL032354.D
 Acq: 15 Aug 2018 13:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.8	25.1	75.3
148	63.6	31.9	95.7

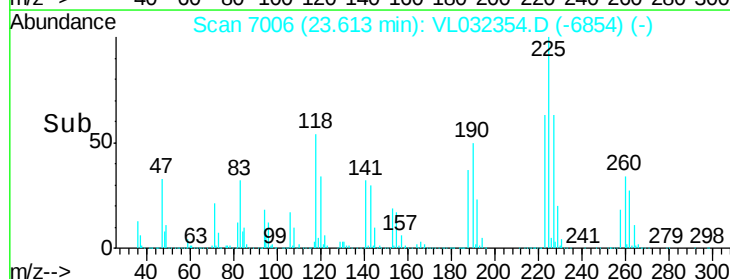
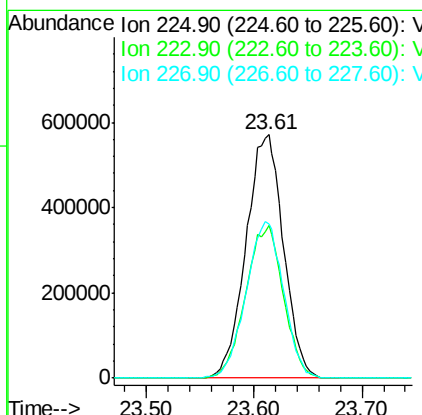
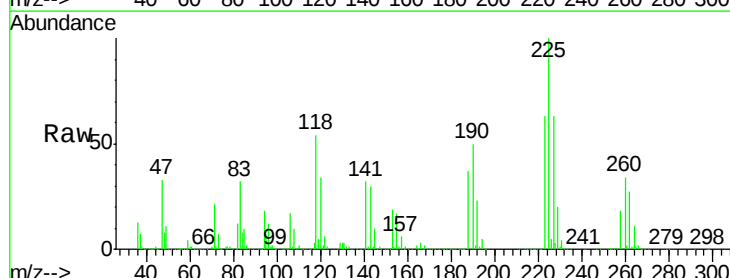
Manual Integrations
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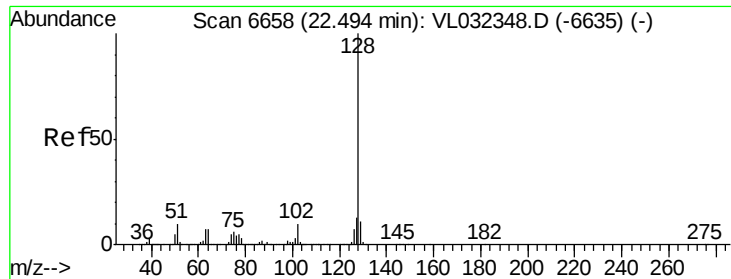
MMDadoda
 8/17/2018 2:06:33 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 11.21 ppbv
 RT: 23.61 min Scan# 7006
 Delta R.T. -0.01 min
 Lab File: VL032354.D
 Acq: 15 Aug 2018 13:56

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.5	75.7
227	64.3	51.3	76.9





#79

Naphthalene

Concen: 15.06 ppbv

RT: 22.49 min Scan# 6658

Delta R.T. -0.03 min

Lab File: VL032354.D

Acq: 15 Aug 2018 13:56

Instrument :

MSVOA_L

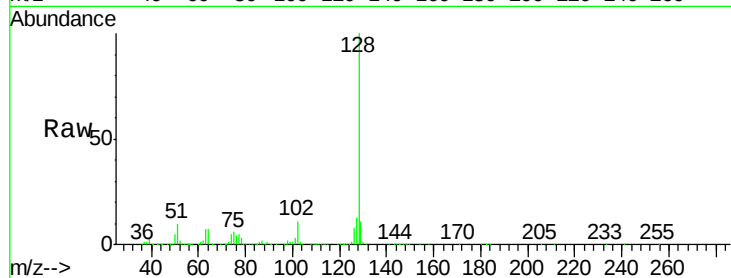
ClientSampleId :

VSTDIC015

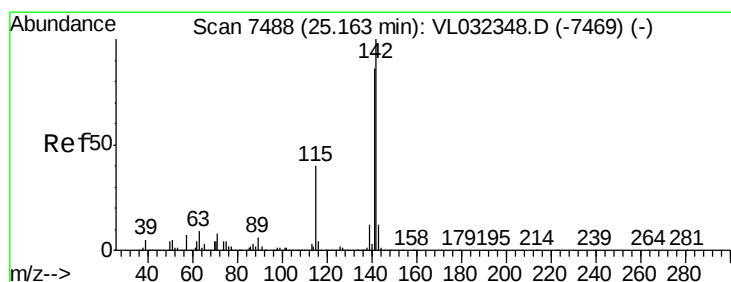
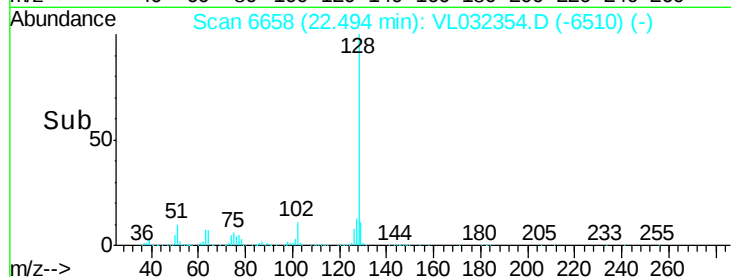
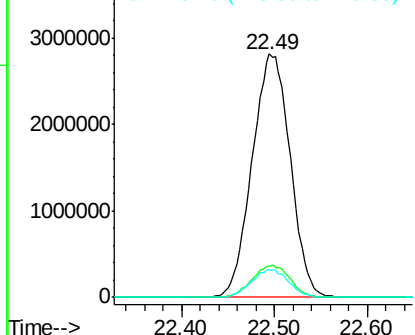
Tot Ion:	128	Resp:	8017867
Ion	Ratio	Lower	Upper
128	100		
127	13.0	9.9	14.9
129	11.2	8.8	13.2

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



#80

Naphthalene, 2-methyl-

Concen: 16.97 ppbv

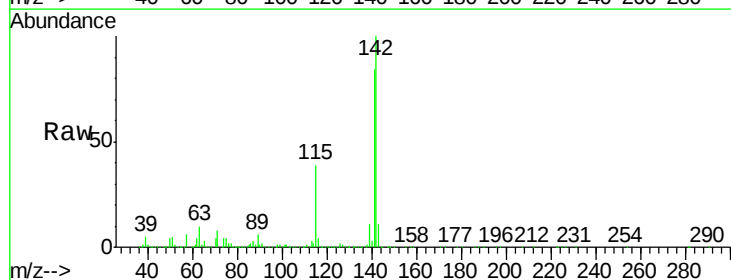
RT: 25.17 min Scan# 7490

Delta R.T. -0.01 min

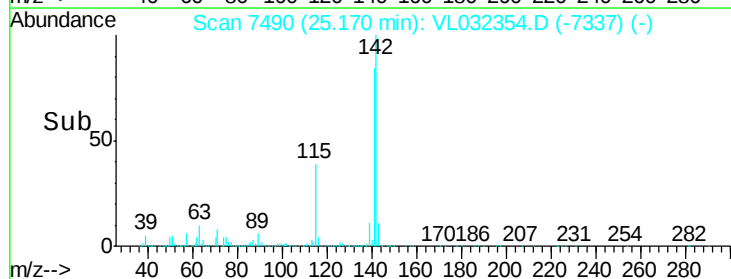
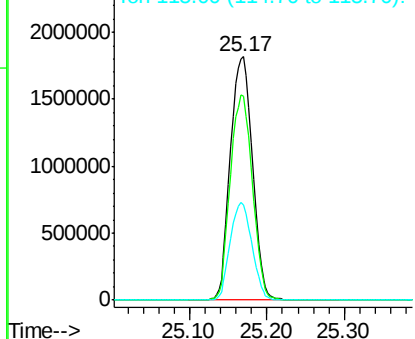
Lab File: VL032354.D

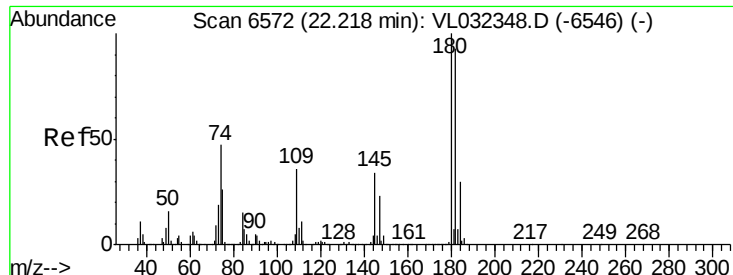
Acq: 15 Aug 2018 13:56

Tgt Ion:	142	Resp:	3574200
Ion	Ratio	Lower	Upper
142	100		
141	84.1	66.7	100.1
115	39.4	31.1	46.7



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





#81
 1,2,4-Trichlorobenzene
 Concen: 14.00 ppbv
 RT: 22.22 min Scan# 6574
 Delta R.T. -0.01 min
 Lab File: VL032354.D
 Acq: 15 Aug 2018 13:56

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.5	76.2	114.2
184	30.5	24.3	36.5

Manual Integrations
 APPROVED

MMDadoda
 8/17/2018 2:06:33 PM

