

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL082018\
 Data File : VL032406.D
 Acq On : 20 Aug 2018 14:05
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 8/28/2018 2:53:50 PM

Quant Time: Aug 28 13:56:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 28 2018
 QLast Update : Tue Aug 28 13:07:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.81	49	1868128	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.35	114	3638959	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.30	117	3712778m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.64	95	2854018	10.08	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.11	85	1541303	8.09	ppbv	97
3) Chlorodifluoromethane	3.04	51	1650408	9.54	ppbv	100
4) Chloromethane	3.20	50	1004044	9.75	ppbv	99
5) Vinyl Chloride	3.32	62	961903	9.80	ppbv	95
6) Bromomethane	3.55	94	541922	10.30	ppbv	97
7) Chloroethane	3.64	64	350738	10.19	ppbv	99
8) Dichlorotetrafluoroethane	3.25	85	2007917	9.51	ppbv	98
9) Propene	3.07	41	772729	10.43	ppbv	100
10) Heptane	8.30	43	2440537	10.94	ppbv	100
11) Trichlorofluoromethane	4.04	101	1991648	9.53	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.59	101	1349863	9.59	ppbv	98
13) Ethanol	3.68	45	209700	11.02	ppbv	97
14) Bromoethene	3.83	108	623821	10.25	ppbv	99
15) Acetone	3.94	43	1563871	8.81	ppbv	100
16) 1,3-Butadiene	3.40	39	784128	10.70	ppbv	90
17) tert-Butyl alcohol	4.40	59	302618	10.16	ppbv	99
18) 1,1-Dichloroethene	4.39	96	654683	9.99	ppbv	96
19) Isopropyl Alcohol	4.06	45	1234513	10.33	ppbv	100
20) Methylene Chloride	4.45	84	572903	8.55	ppbv	92
21) Allyl Chloride	4.52	41	1175722	10.50	ppbv	100
22) trans-1,2-Dichloroethene	5.01	96	631648	9.55	ppbv	99
23) Vinyl Acetate	5.20	43	2907176	9.49	ppbv	99
24) 1,1-Dichloroethane	5.13	63	2023698	9.14	ppbv	99
25) Ethyl Acetate	5.82	43	3939986	10.36	ppbv	99
26) Hexane	5.83	57	1822405	10.75	ppbv	99
27) Carbon Disulfide	4.66	76	1703337	10.76	ppbv	99
28) Methyl tert-Butyl Ether	5.16	73	2221261	9.87	ppbv	99
29) Chloroform	5.90	83	2641078	10.63	ppbv	98
30) Cyclohexane	7.30	84	1369688	10.60	ppbv	99
31) cis-1,2-Dichloroethene	5.69	61	1670416	10.07	ppbv	100
32) 1,1,1-Trichloroethane	6.67	97	2471513	10.22	ppbv	99
34) 2-Butanone	5.38	43	2552720	10.31	ppbv	99
35) Carbon Tetrachloride	7.19	117	2332130	10.87	ppbv	96
36) Benzene	7.06	78	3551679	11.51	ppbv	100
37) 1,2-Dichloroethane	6.47	62	1971177	10.53	ppbv	99
38) Trichloroethene	8.02	130	1211696	11.20	ppbv	97
39) 1,2-Dichloropropane	7.79	63	1420087	11.02	ppbv	97
40) 1,4-Dioxane	8.01	88	437966	11.19	ppbv #	1
41) Tetrahydrofuran	6.20	42	1527692	11.49	ppbv	100
42) Bromodichloromethane	7.97	83	2708188	11.05	ppbv	98
43) Methyl Methacrylate	8.19	69	1457772	11.86	ppbv	98

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.05	57	6181511	11.11	ppbv	100
45) t-1,3-Dichloropropene	9.48	75	2001997	12.88	ppbv	100
46) cis-1,3-Dichloropropene	8.89	75	2374493	12.73	ppbv	99
47) 1,1,2-Trichloroethane	9.67	97	1488501	10.49	ppbv	98
48) Dibromochloromethane	10.51	129	2129430	11.23	ppbv	99
49) Bromoform	13.27	173	1837500	11.67	ppbv	99
50) 4-Methyl-2-Pentanone	8.93	43	4082867	11.41	ppbv	100
51) 2-Hexanone	10.33	43	2960672	11.79	ppbv #	99
52) Tetrachloroethene	11.44	164	1047325	11.51	ppbv	95
53) Toluene	10.01	91	4104856	12.14	ppbv	99
54) 1,2-Dibromoethane	10.82	107	1963610	10.78	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.34	131	1567435	10.21	ppbv #	57
57) Chlorobenzene	12.36	112	2812025	10.06	ppbv	98
58) Ethyl Benzene	12.93	91	5151038	11.53	ppbv	99
59) m/p-Xylene	13.21	91	8383404m	22.09	ppbv	
60) o-Xylene	13.91	91	4039294	10.83	ppbv	100
61) Styrene	13.75	104	3138658	12.04	ppbv	100
62) Isopropylbenzene	14.89	105	5738175	10.81	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.90	83	3063219	9.77	ppbv	100
64) n-propylbenzene	15.78	120	1520901	11.07	ppbv	98
65) tert-Butylbenzene	16.97	119	4781469	10.54	ppbv	100
66) Benzyl Chloride	17.22	91	3245999	12.09	ppbv	99
67) sec-Butylbenzene	17.52	105	7364983	10.92	ppbv	100
69) p-Isopropyltoluene	17.88	119	5897929	11.43	ppbv	100
70) n-Butylbenzene	18.78	91	6419008	11.34	ppbv	99
71) 2-Chlorotoluene	15.68	91	4605905	11.21	ppbv	100
72) 4-Ethyltoluene	16.06	105	4802544	11.54	ppbv	99
73) 1,3,5-Trimethylbenzene	16.22	105	4579007	11.44	ppbv	100
74) 1,2,4-Trimethylbenzene	16.99	105	4509088	10.59	ppbv	99
75) 1,3-Dichlorobenzene	17.23	146	2589022	10.12	ppbv	100
76) 1,4-Dichlorobenzene	17.37	146	2623228	10.82	ppbv	100
77) 1,2-Dichlorobenzene	18.05	146	2607072	10.66	ppbv	99
78) Hexachloro-1,3-Butadiene	23.60	225	784132	9.56	ppbv	99
79) Naphthalene	22.49	128	4270226	13.75	ppbv	99
80) Naphthalene, 2-methyl-	25.16	142	1700044	20.01	ppbv	99
81) 1,2,4-Trichlorobenzene	22.21	180	2051008	12.46	ppbv	100

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

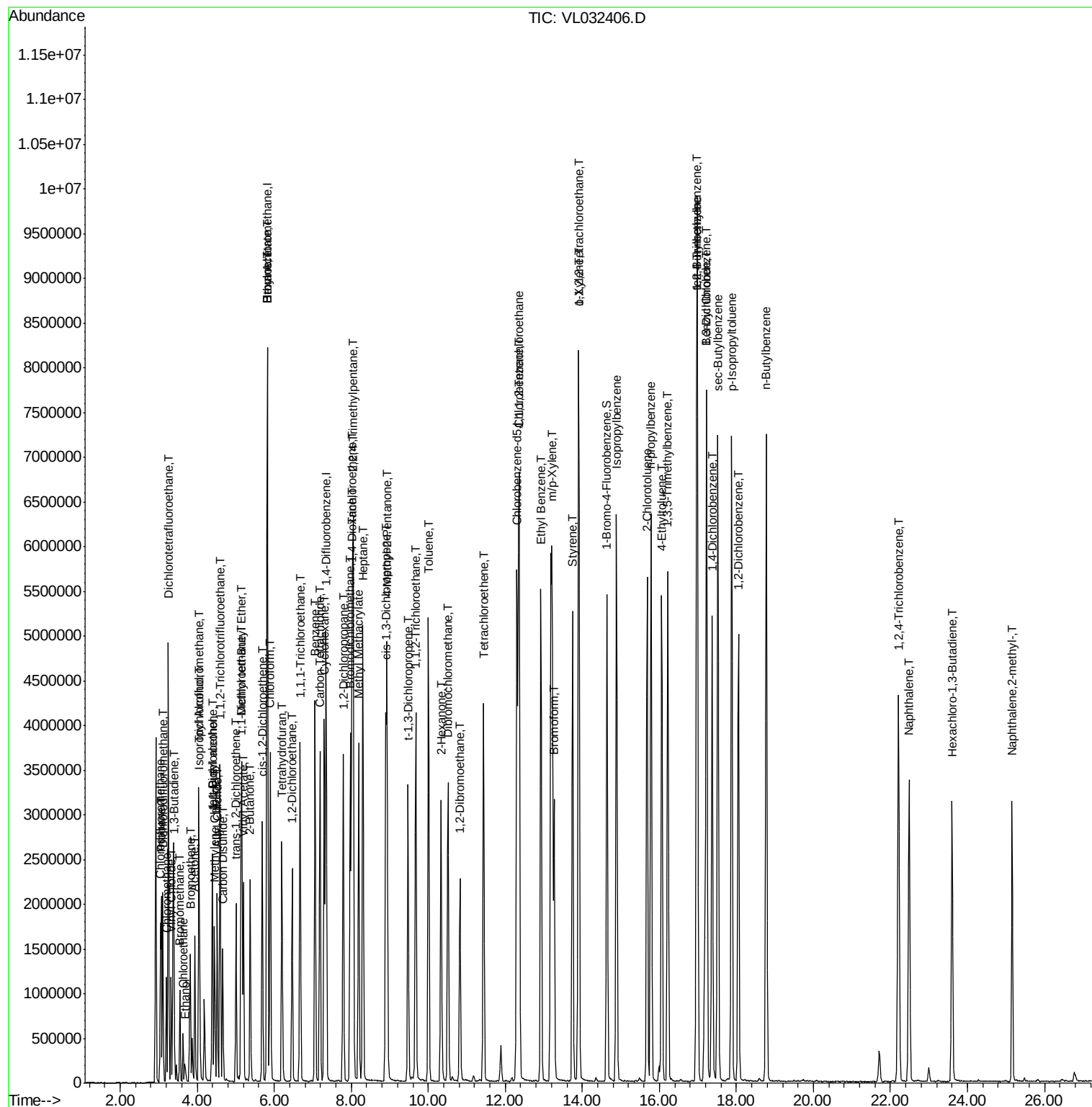
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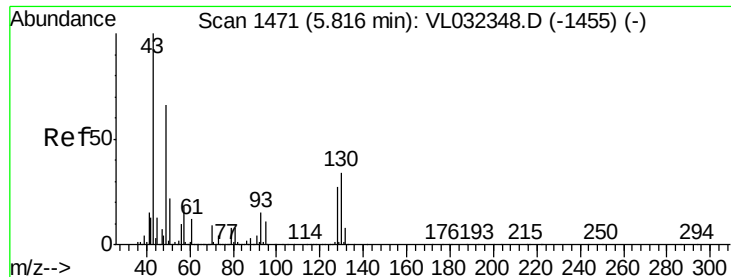
Instrument :
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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.81 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 49 Resp: 1868128

Ion Ratio Lower Upper

49 100

128 40.9 20.5 61.6

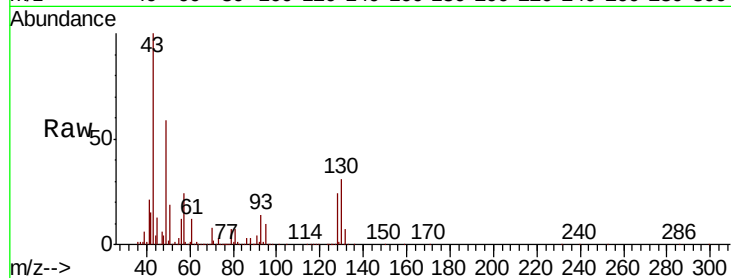
130 52.5 26.2 78.5

Manual Integrations

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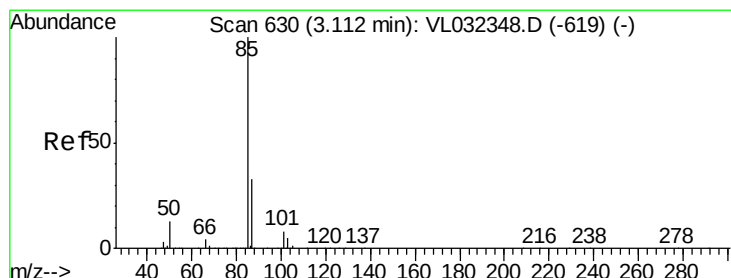
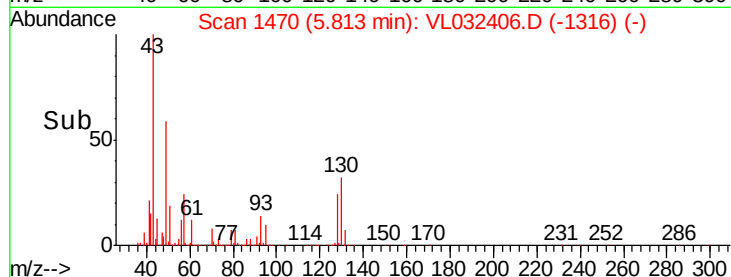
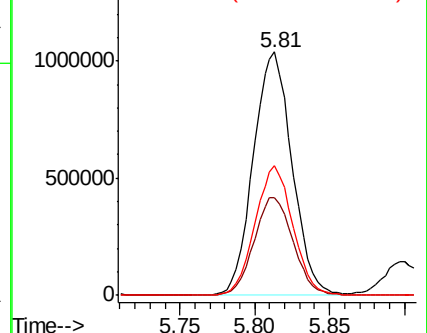
8/28/2018 2:53:50 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 8.09 ppbv

RT: 3.11 min Scan# 629

Delta R.T. -0.00 min

Lab File: VL032406.D

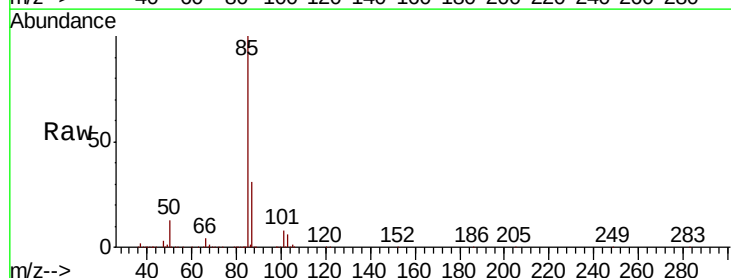
Acq: 20 Aug 2018 14:05

Tgt Ion: 85 Resp: 1541303

Ion Ratio Lower Upper

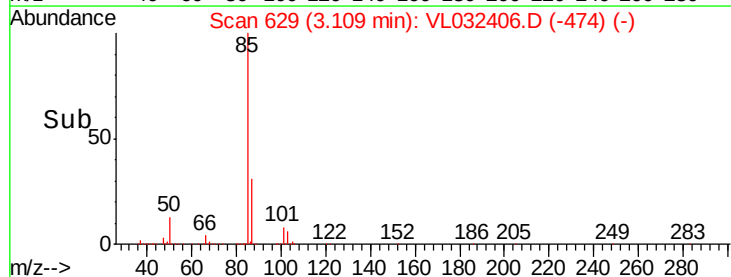
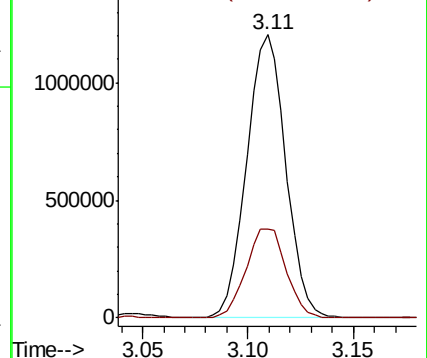
85 100

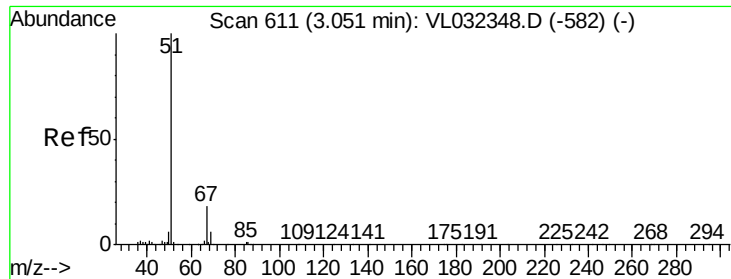
87 31.4 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.54 ppbv

RT: 3.04 min Scan# 609

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Tot Ion: 51 Resp: 1650408

Ion Ratio Lower Upper

51 100

67 17.0 13.7 20.5

Instrument :

MSVOA_L

ClientSampleId :

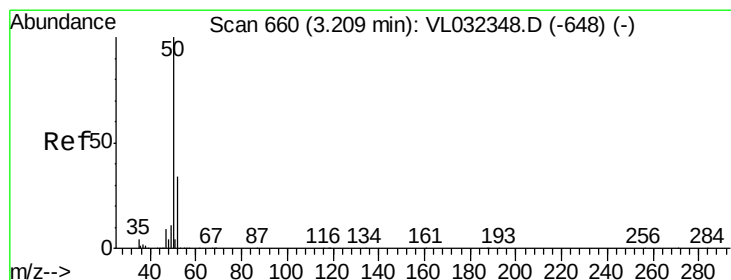
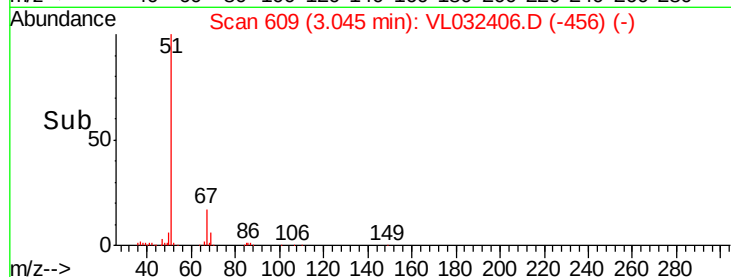
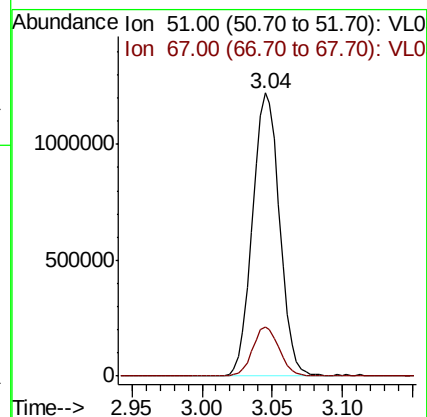
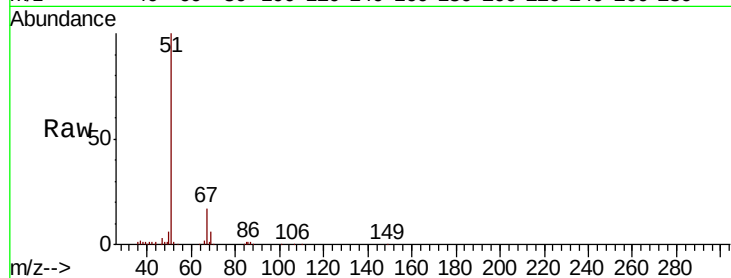
VSTDCCC010

Manual Integrations

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#4

Chloromethane

Concen: 9.75 ppbv

RT: 3.20 min Scan# 658

Delta R.T. -0.01 min

Lab File: VL032406.D

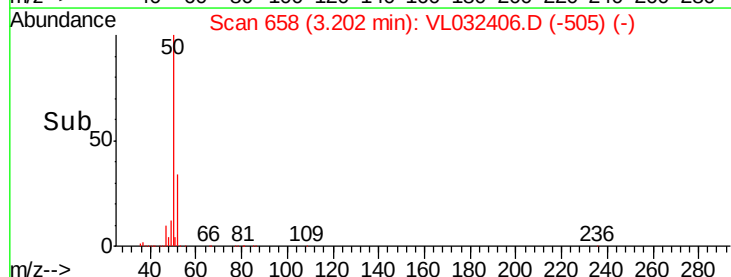
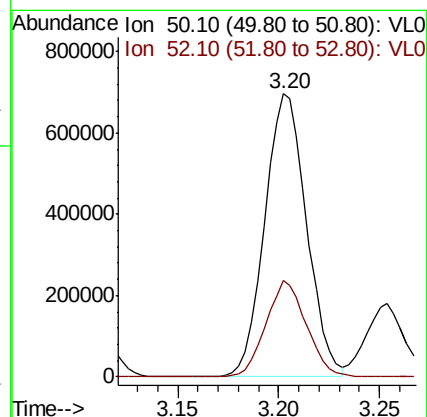
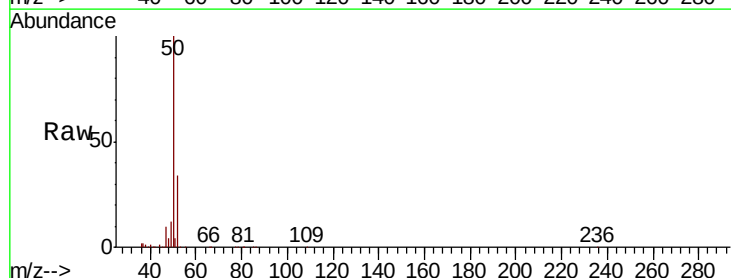
Acq: 20 Aug 2018 14:05

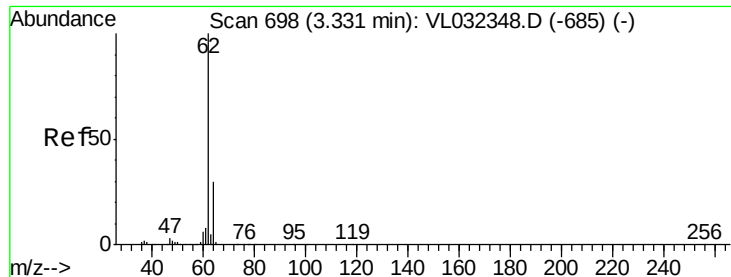
Tgt Ion: 50 Resp: 1004044

Ion Ratio Lower Upper

50 100

52 34.0 26.8 40.2





#5

Vinyl Chloride

Concen: 9.80 ppbv

RT: 3.32 min Scan# 696

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 961903

Ion Ratio Lower Upper

62 100

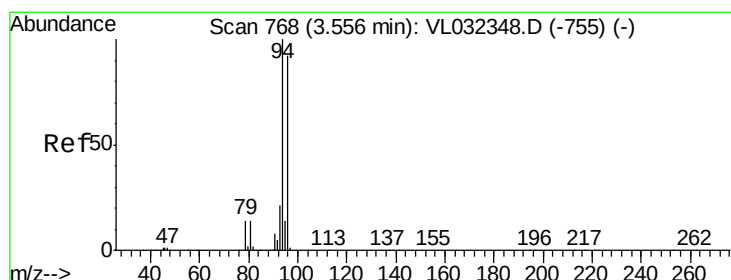
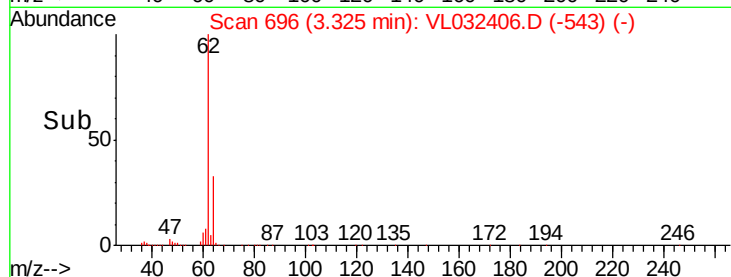
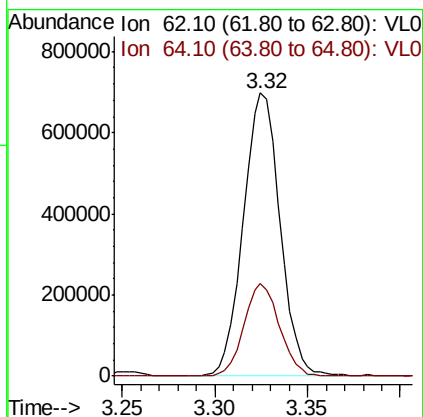
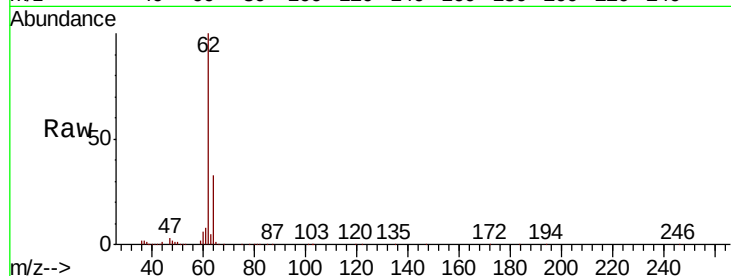
64 32.7 24.2 36.2

Manual Integrations

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#6

Bromomethane

Concen: 10.30 ppbv

RT: 3.55 min Scan# 766

Delta R.T. -0.01 min

Lab File: VL032406.D

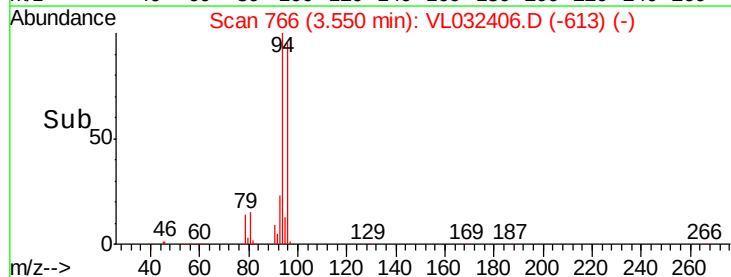
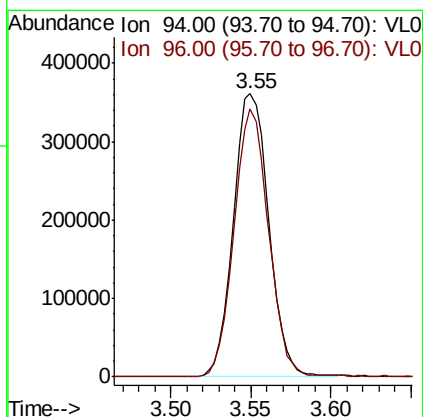
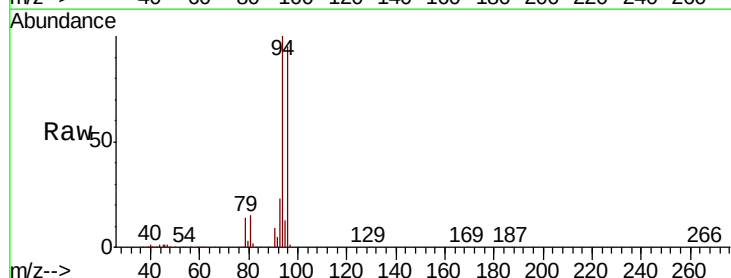
Acq: 20 Aug 2018 14:05

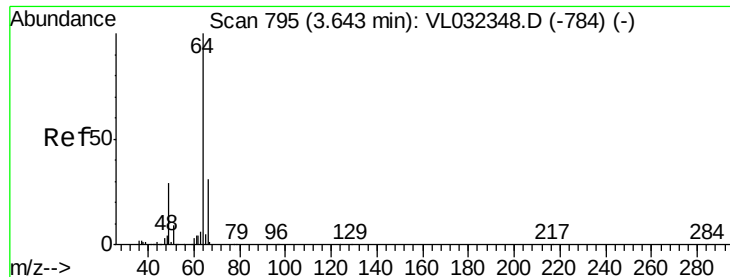
Tgt Ion: 94 Resp: 541922

Ion Ratio Lower Upper

94 100

96 94.6 73.7 110.5





#7

Chloroethane

Concen: 10.19 ppbv

RT: 3.64 min Scan# 793

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 64 Resp: 350738

Ion Ratio Lower Upper

64 100

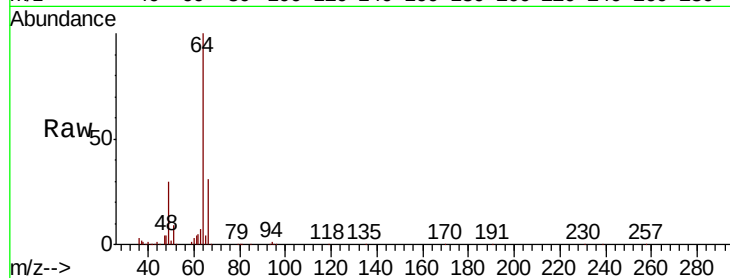
66 31.2 24.6 36.8

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

300000

250000

200000

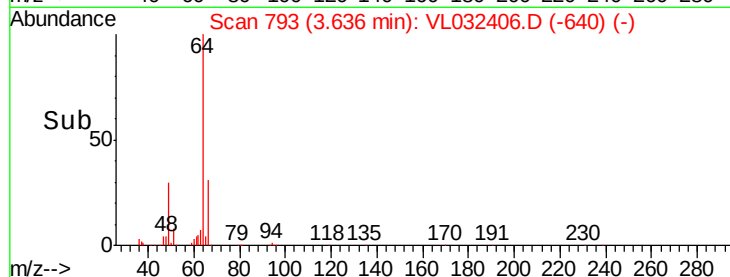
150000

100000

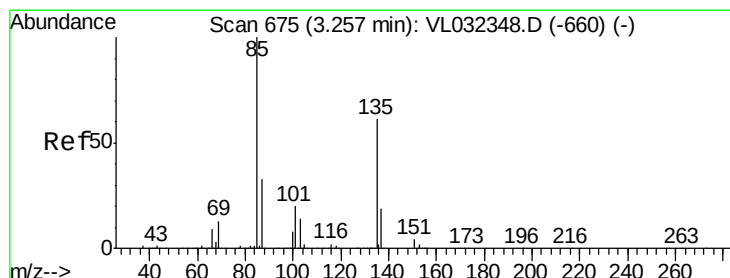
50000

0

Time-->



Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.51 ppbv

RT: 3.25 min Scan# 674

Delta R.T. -0.00 min

Lab File: VL032406.D

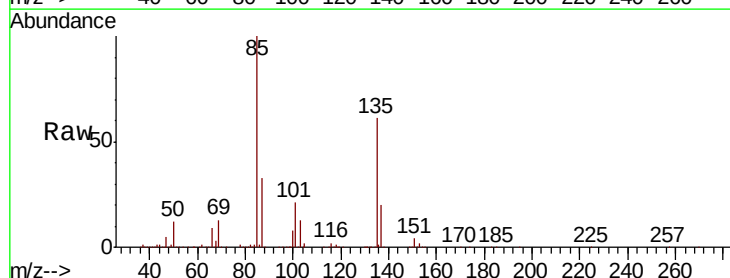
Acq: 20 Aug 2018 14:05

Tgt Ion: 85 Resp: 2007917

Ion Ratio Lower Upper

85 100

135 60.0 49.0 73.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

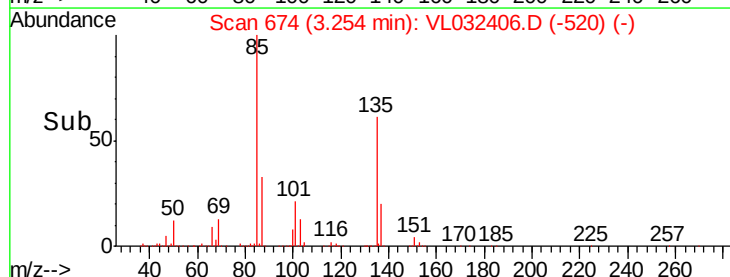
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1000000

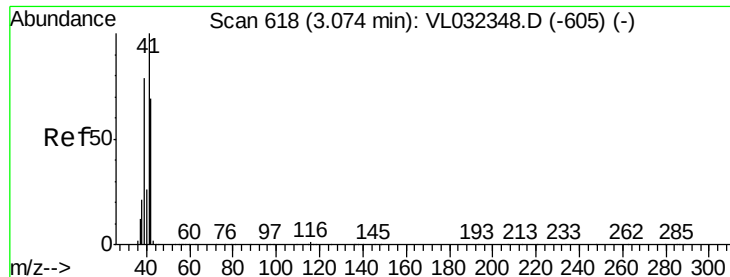
500000

0

Time-->



Time-->



#9

Propene

Concen: 10.43 ppbv

RT: 3.07 min Scan# 616

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 772729

Ion Ratio Lower Upper

41 100

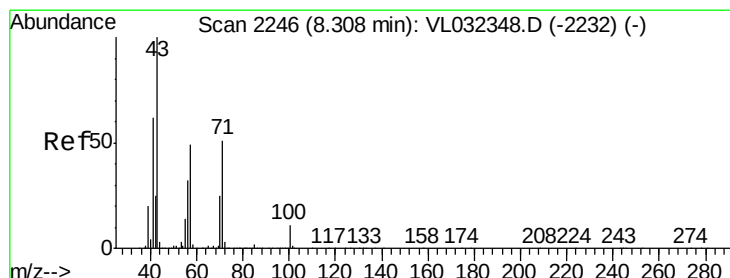
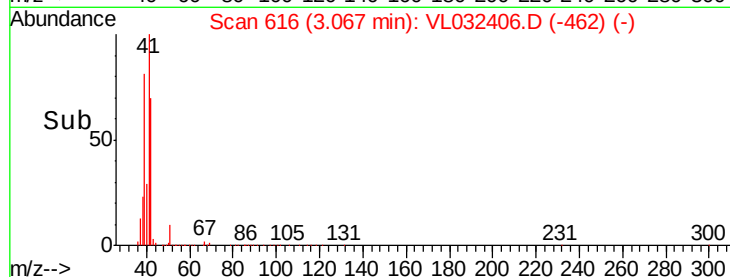
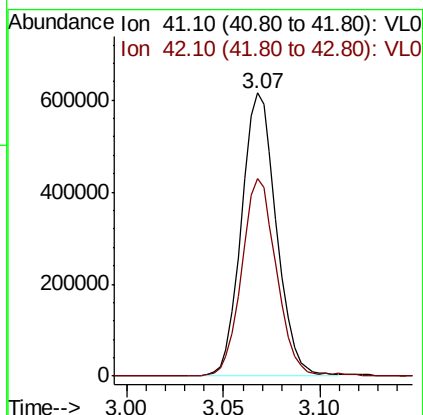
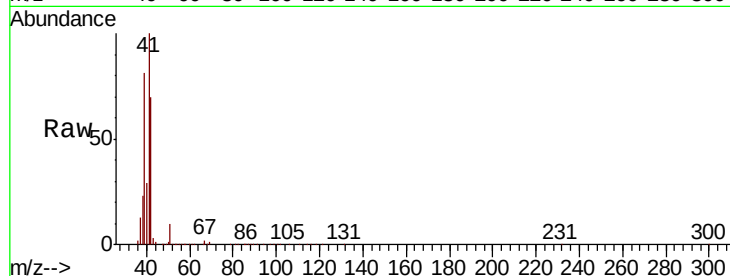
42 70.0 55.9 83.9

Manual Integrations

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#10

Heptane

Concen: 10.94 ppbv

RT: 8.30 min Scan# 2244

Delta R.T. -0.01 min

Lab File: VL032406.D

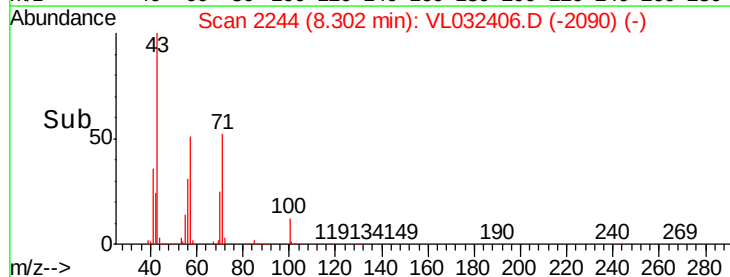
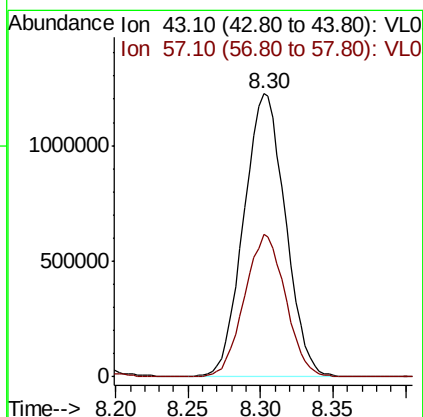
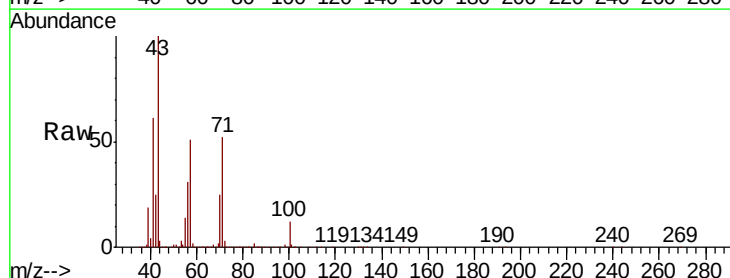
Acq: 20 Aug 2018 14:05

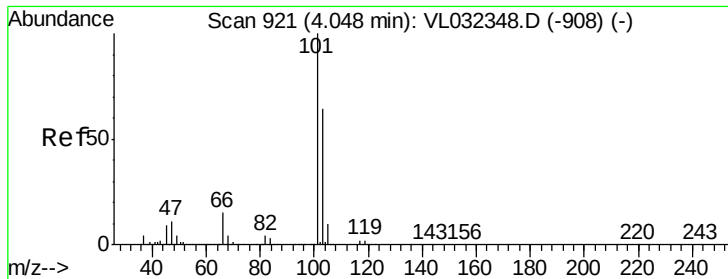
Tgt Ion: 43 Resp: 2440537

Ion Ratio Lower Upper

43 100

57 49.4 39.5 59.3





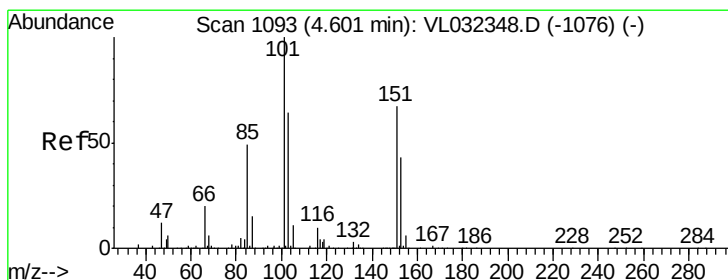
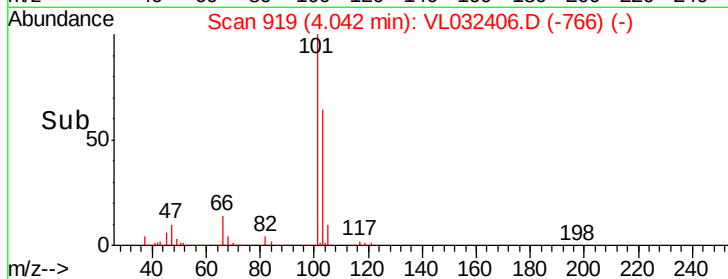
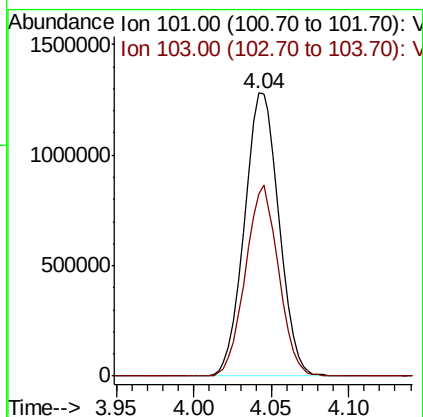
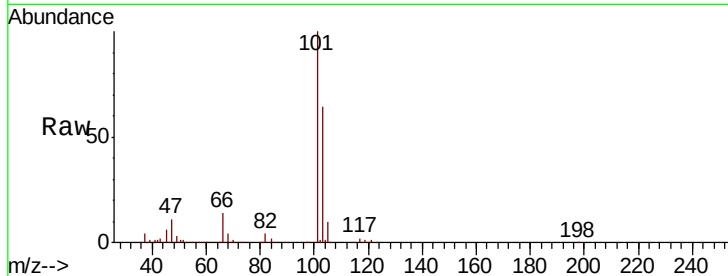
#11
 Trichlorofluoromethane
 Concen: 9.53 ppbv
 RT: 4.04 min Scan# 919
 Delta R.T. -0.01 min
 Lab File: VL032406.D
 Acq: 20 Aug 2018 14:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:101 Resp: 1991648
 Ion Ratio Lower Upper
 101 100
 103 64.3 51.4 77.0

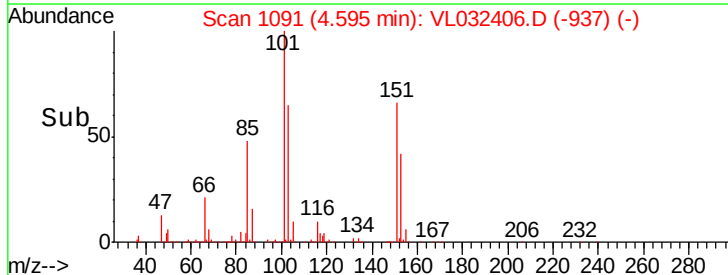
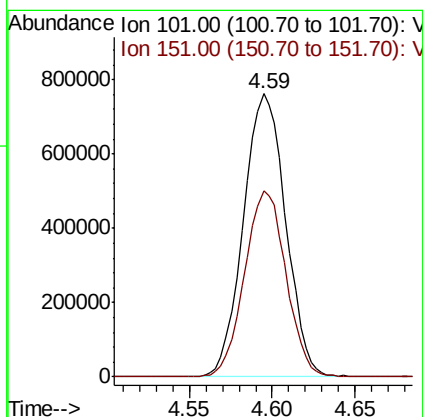
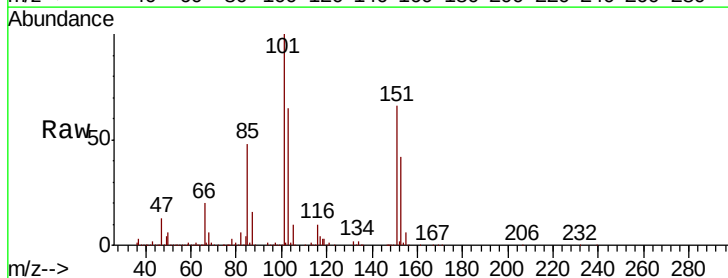
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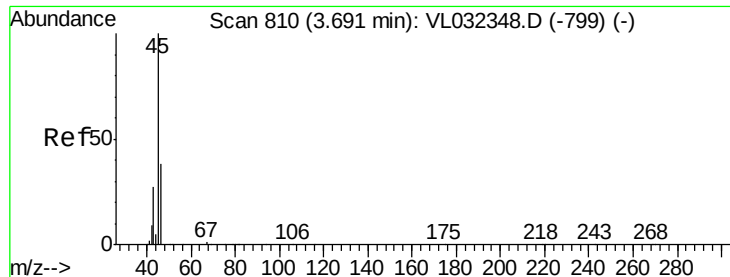
MMDadoda
 8/28/2018 2:53:50 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.59 ppbv
 RT: 4.59 min Scan# 1091
 Delta R.T. -0.01 min
 Lab File: VL032406.D
 Acq: 20 Aug 2018 14:05

Tgt Ion:101 Resp: 1349863
 Ion Ratio Lower Upper
 101 100
 151 64.7 53.1 79.7





#13

Ethanol

Concen: 11.02 ppbv

RT: 3.68 min Scan# 808

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 209700

Ion Ratio Lower Upper

45 100

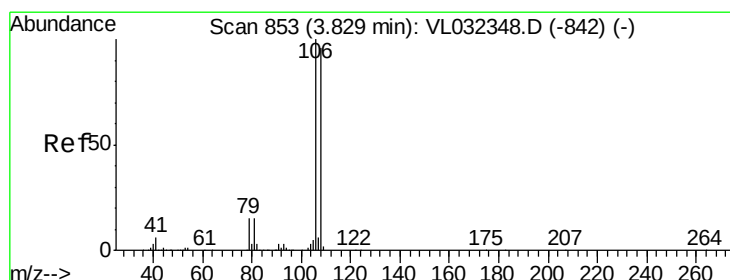
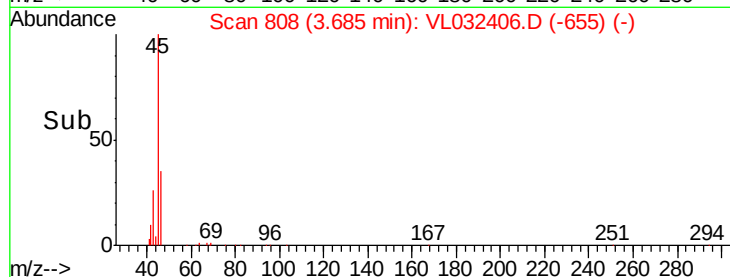
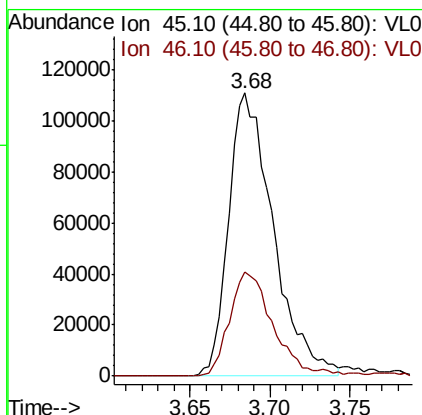
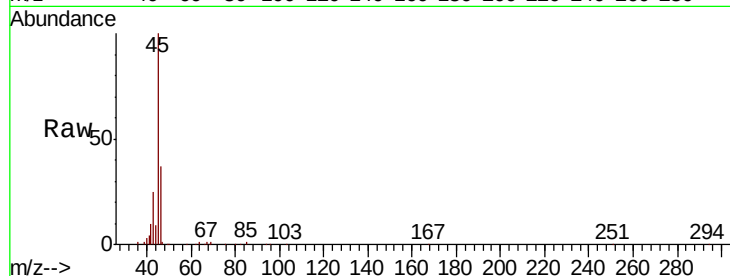
46 37.3 15.6 62.4

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#14

Bromoethene

Concen: 10.25 ppbv

RT: 3.83 min Scan# 852

Delta R.T. -0.00 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

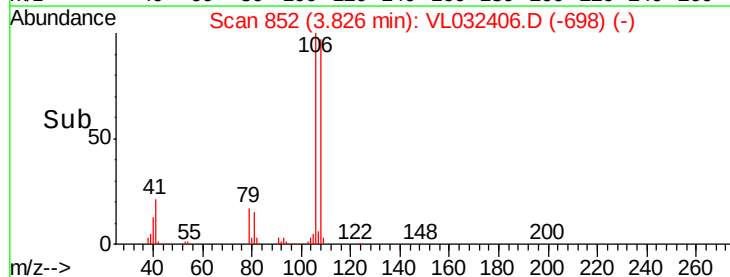
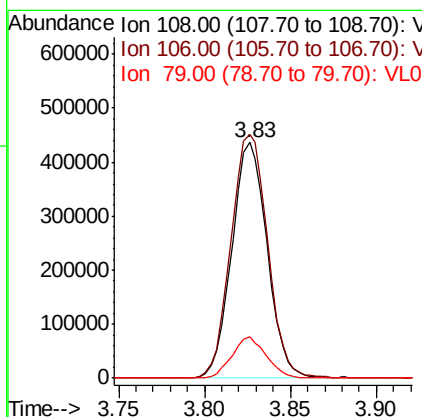
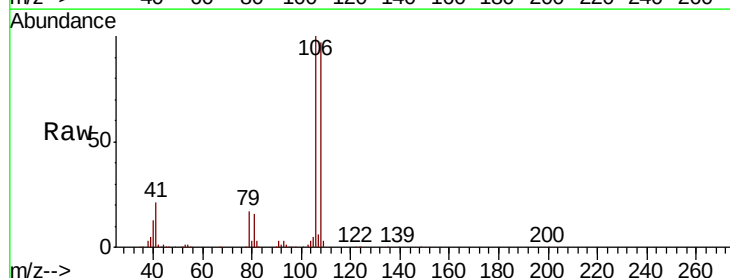
Tgt Ion: 108 Resp: 623821

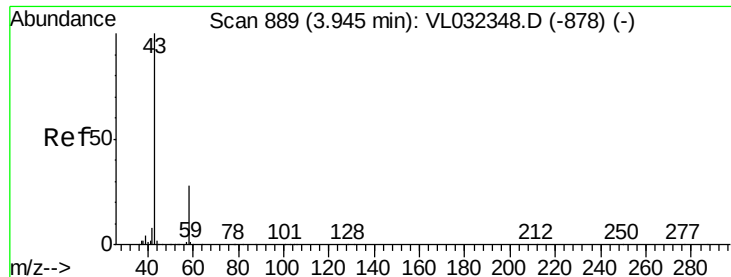
Ion Ratio Lower Upper

108 100

106 107.9 85.7 128.5

79 17.1 13.1 19.7





#15

Acetone

Concen: 8.81 ppbv

RT: 3.94 min Scan# 887

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 1563871

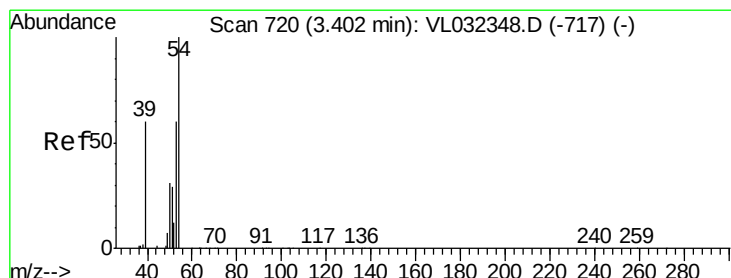
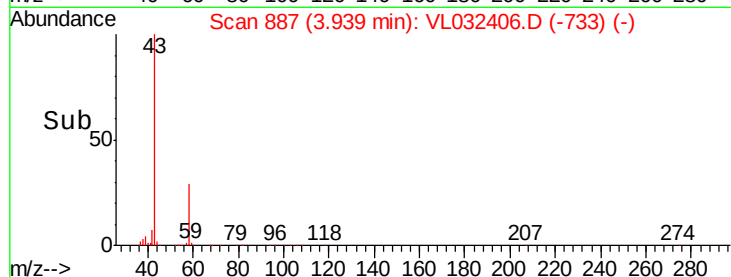
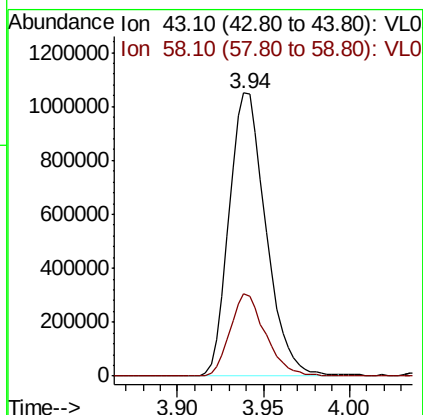
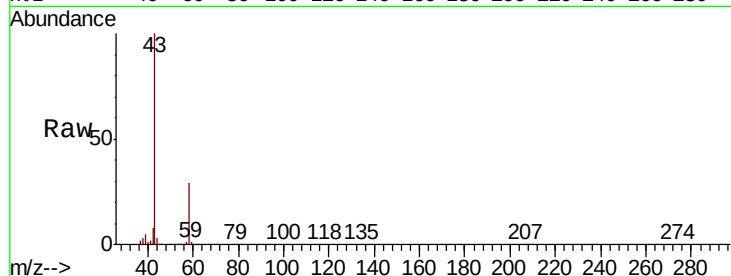
Ion Ratio Lower Upper

43 100

58 28.2 22.4 33.6

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#16

1,3-Butadiene

Concen: 10.70 ppbv

RT: 3.40 min Scan# 719

Delta R.T. -0.00 min

Lab File: VL032406.D

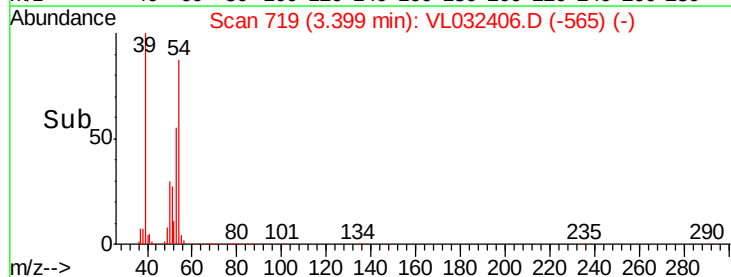
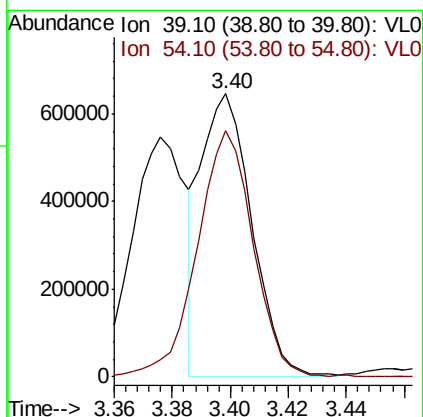
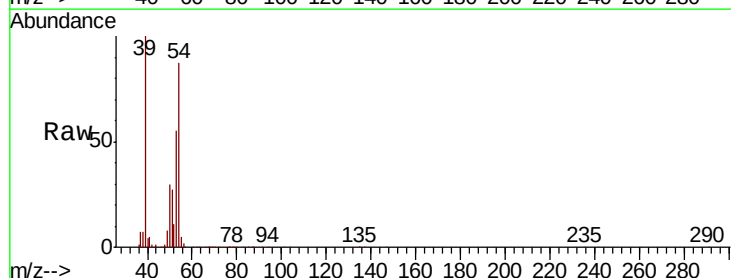
Acq: 20 Aug 2018 14:05

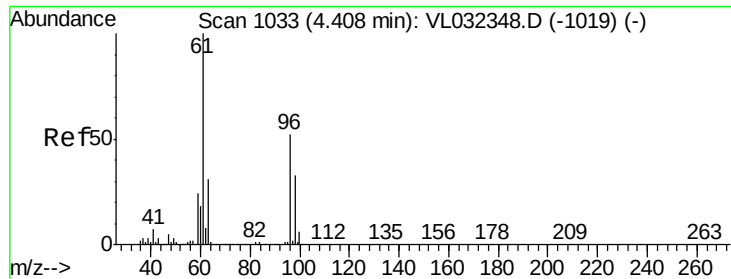
Tgt Ion: 39 Resp: 784128

Ion Ratio Lower Upper

39 100

54 96.8 85.5 128.3





#17

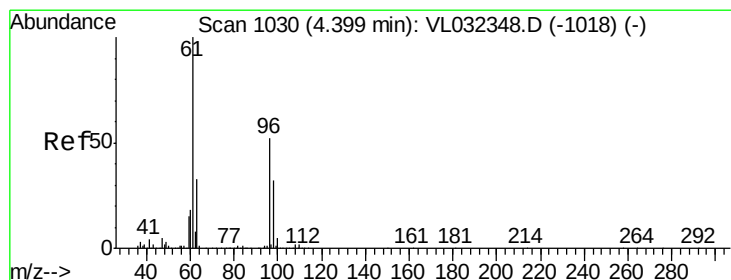
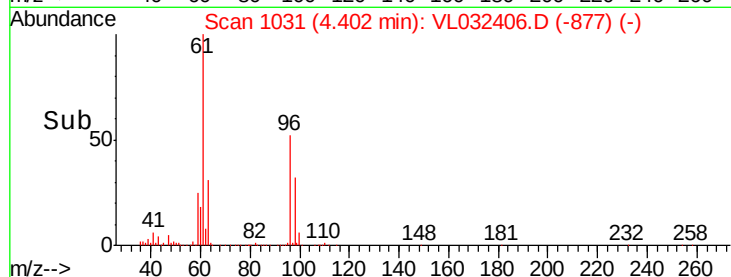
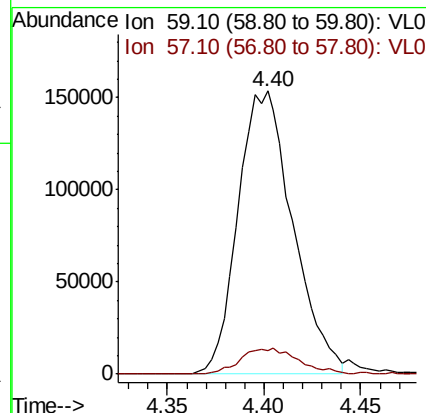
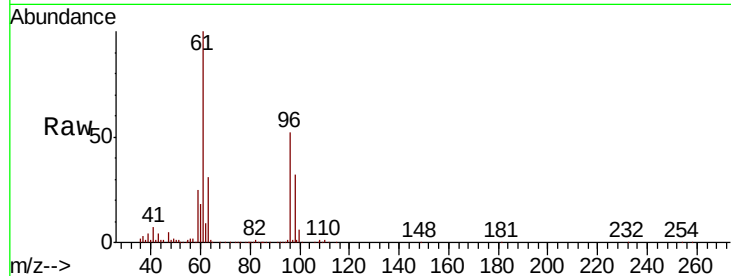
tert-Butyl alcohol
Concen: 10.16 ppbv
RT: 4.40 min Scan# 1031
Delta R.T. -0.01 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	59	Resp	302618
Ion	Ratio	Lower	Upper
59	100		
57	9.9	7.6	11.4

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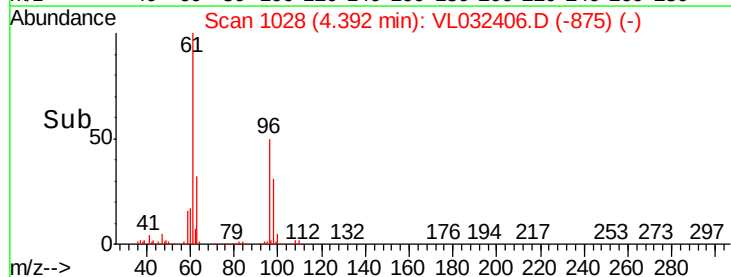
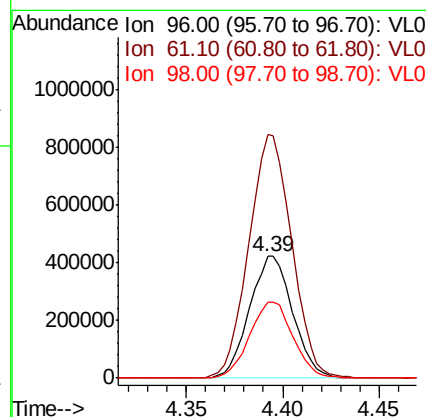
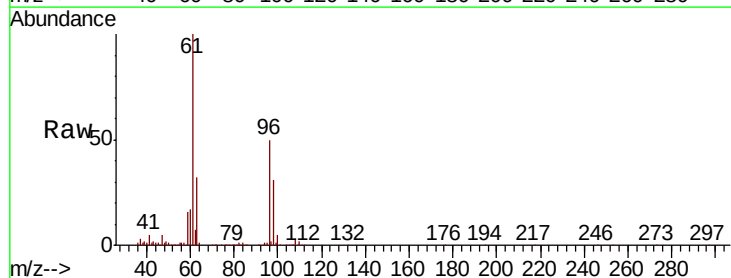
MMDadoda
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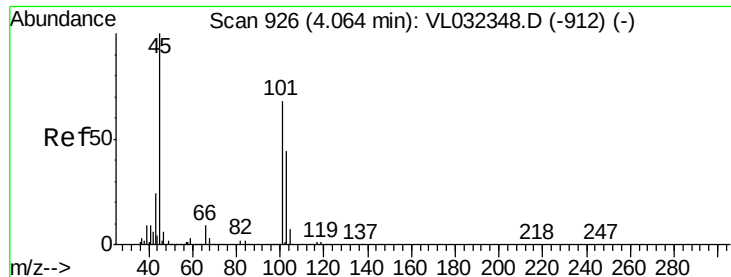


#18

1,1-Dichloroethene
Concen: 9.99 ppbv
RT: 4.39 min Scan# 1028
Delta R.T. -0.01 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

Tgt Ion	96	Resp	654683
Ion	Ratio	Lower	Upper
96	100		
61	199.9	154.6	231.8
98	62.1	50.1	75.1





#19

Isopropyl Alcohol

Concen: 10.33 ppbv

RT: 4.06 min Scan# 925

Delta R.T. -0.00 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Tot Ion: 45 Resp: 1234513

Ion Ratio Lower Upper

45 100

58 1.8 1.4 2.0

Instrument :

MSVOA_L

ClientSampleId :

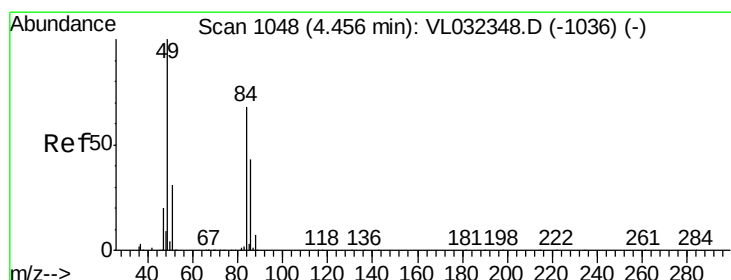
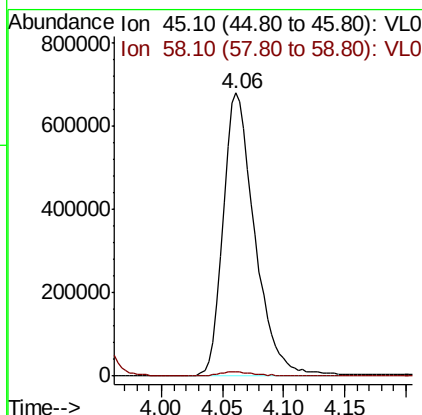
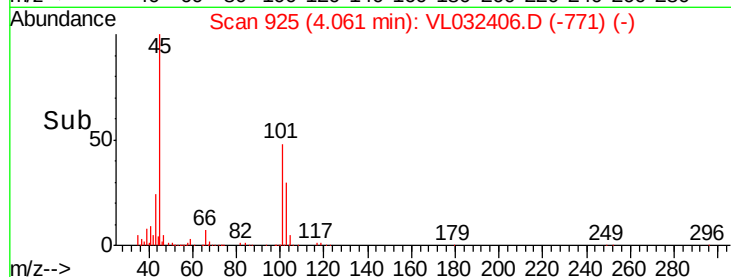
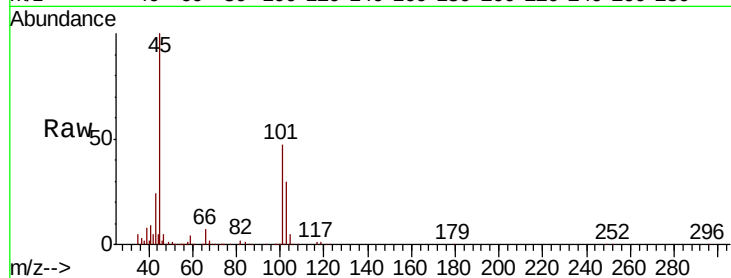
VSTDCCC010

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#20

Methylene Chloride

Concen: 8.55 ppbv

RT: 4.45 min Scan# 1046

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Tgt Ion: 84 Resp: 572903

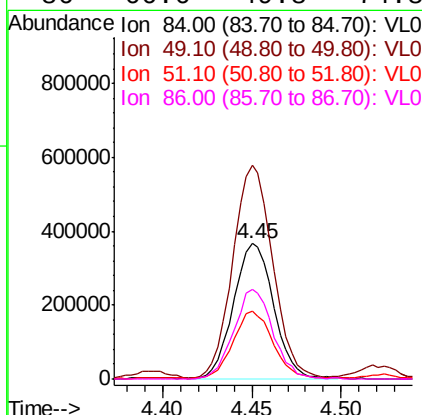
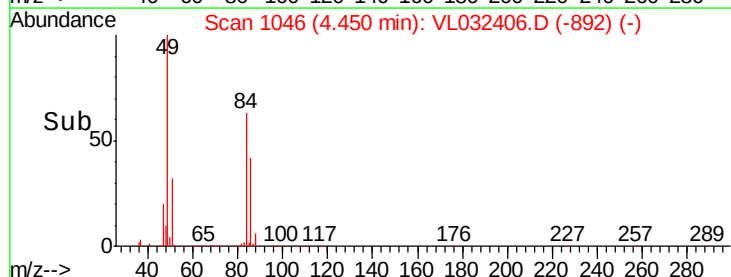
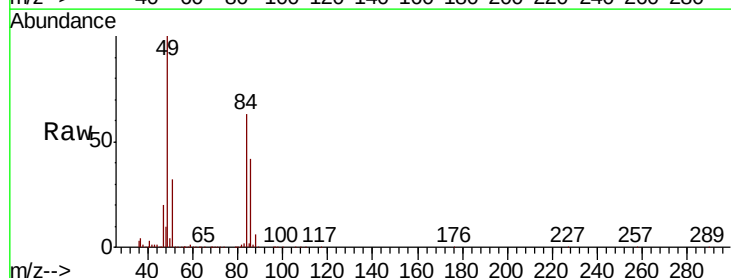
Ion Ratio Lower Upper

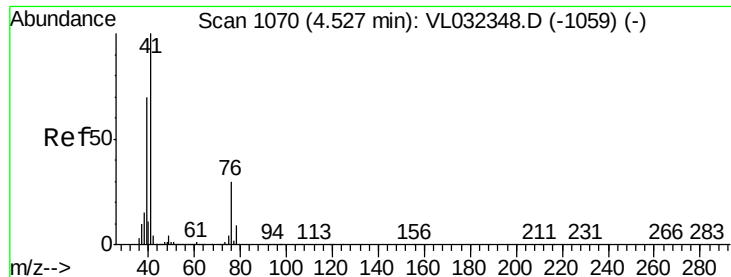
84 100

49 157.4 117.3 175.9

51 50.4 36.6 55.0

86 66.6 49.8 74.8





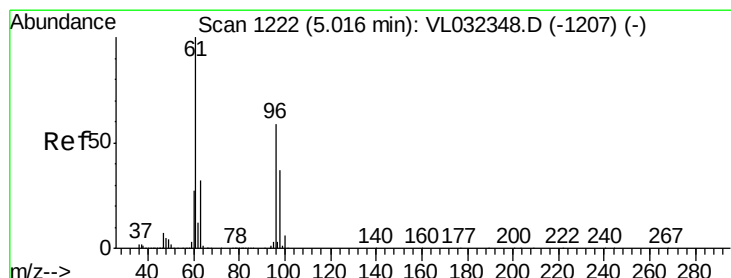
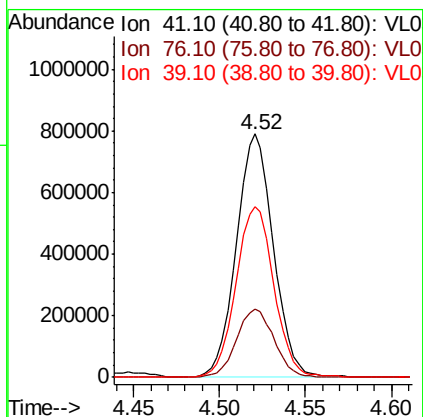
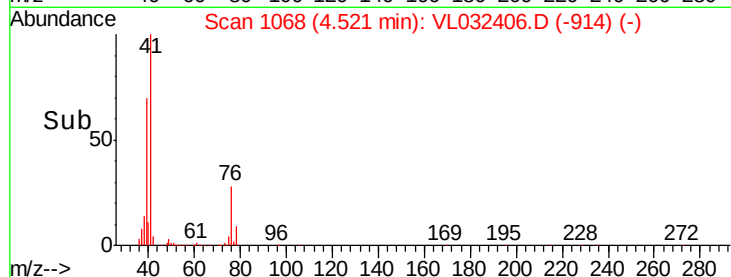
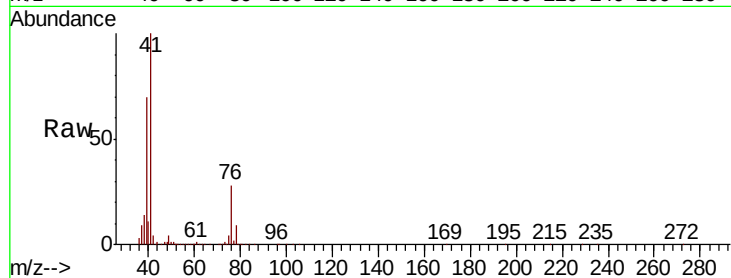
#21
 Allvl Chloride
 Concen: 10.50 ppbv
 RT: 4.52 min Scan# 1068
 Delta R.T. -0.01 min
 Lab File: VL032406.D
 Acq: 20 Aug 2018 14:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	28.8	22.9	34.3
39	72.4	57.6	86.4

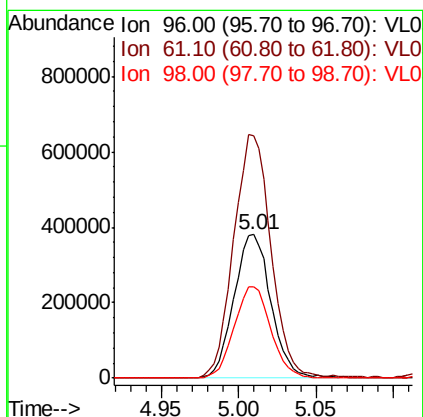
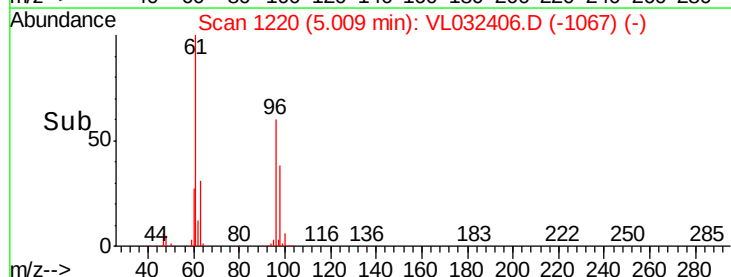
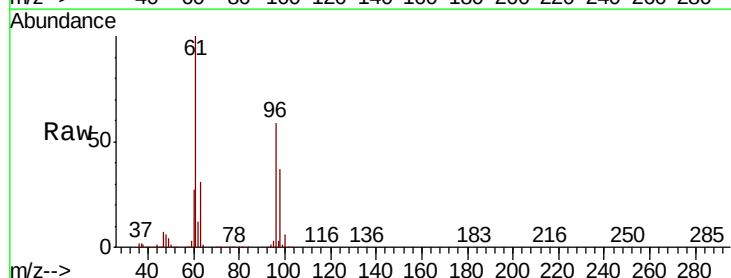
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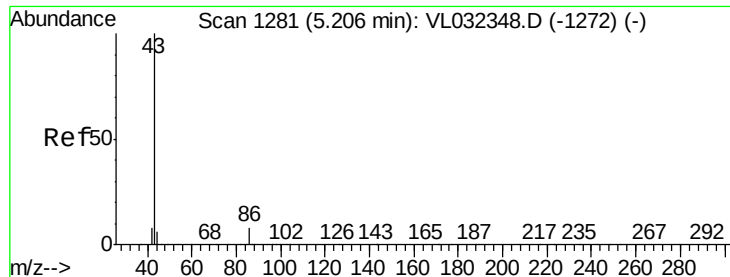
MMDadoda
 8/28/2018 2:53:50 PM



#22
 trans-1,2-Dichloroethene
 Concen: 9.55 ppbv
 RT: 5.01 min Scan# 1220
 Delta R.T. -0.01 min
 Lab File: VL032406.D
 Acq: 20 Aug 2018 14:05

Tgt Ion	Ratio	Lower	Upper
96	100		
61	169.1	136.6	205.0
98	63.3	50.6	76.0





#23

Vinyl Acetate

Concen: 9.49 ppbv

RT: 5.20 min Scan# 1280

Delta R.T. -0.00 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 2907176

Ion Ratio Lower Upper

43 100

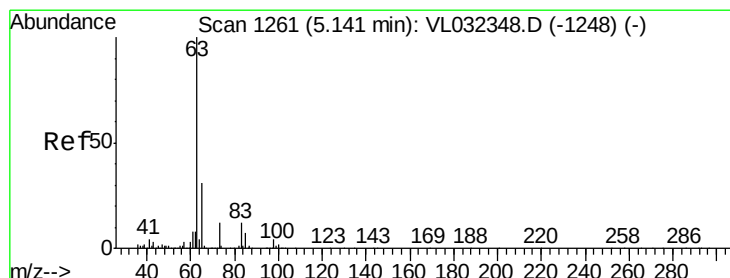
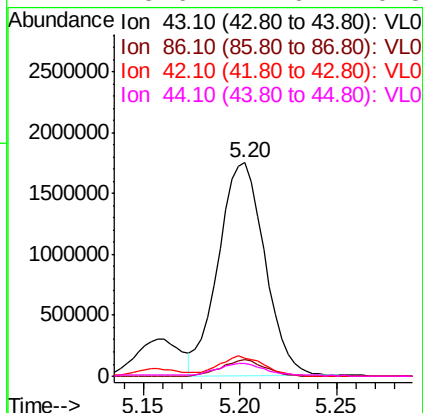
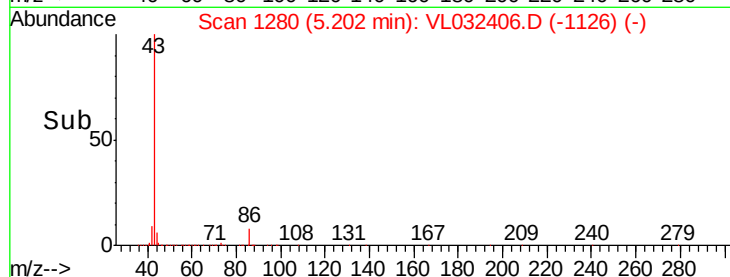
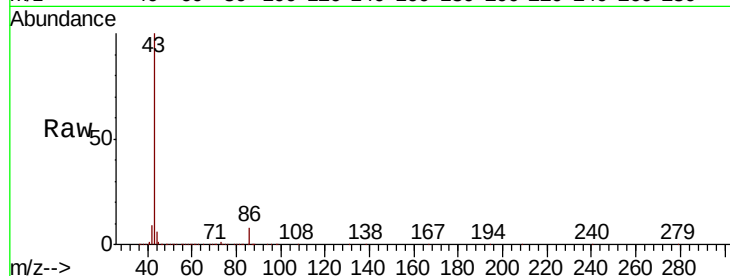
86 7.6 5.5 8.3

42 8.6 7.0 10.6

44 5.6 4.6 6.8

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8/28/2018 2:53:50 PM



#24

1,1-Dichloroethane

Concen: 9.14 ppbv

RT: 5.13 min Scan# 1259

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

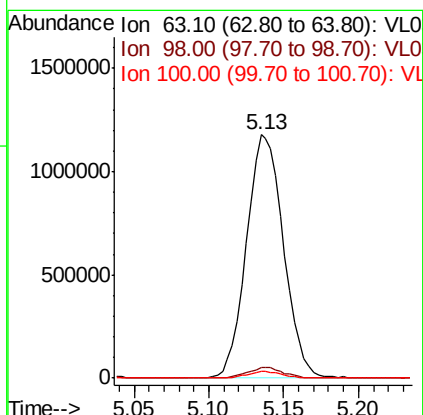
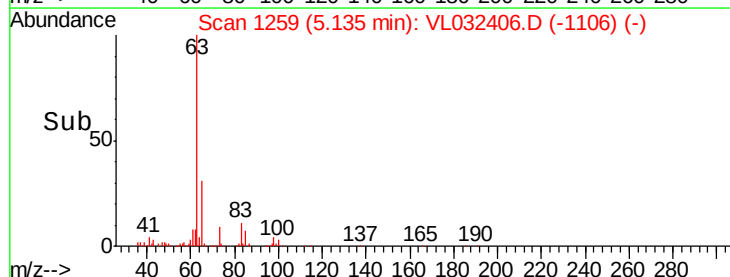
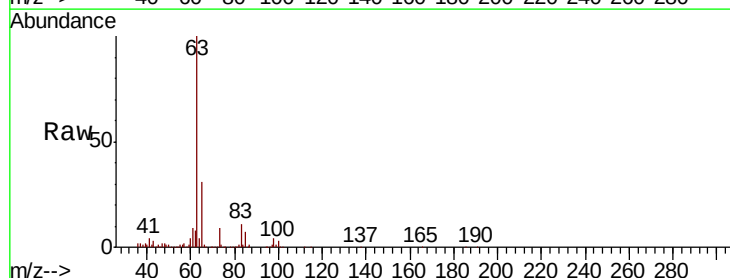
Tgt Ion: 63 Resp: 2023698

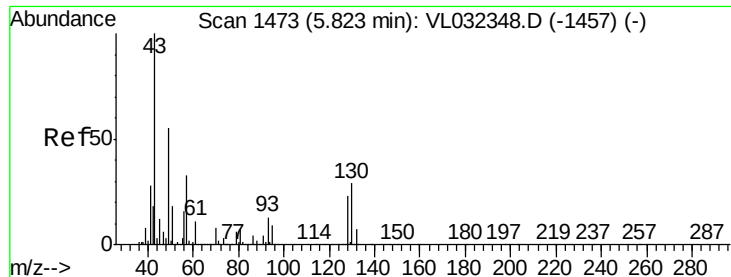
Ion Ratio Lower Upper

63 100

98 4.4 2.1 6.3

100 2.6 1.2 3.6





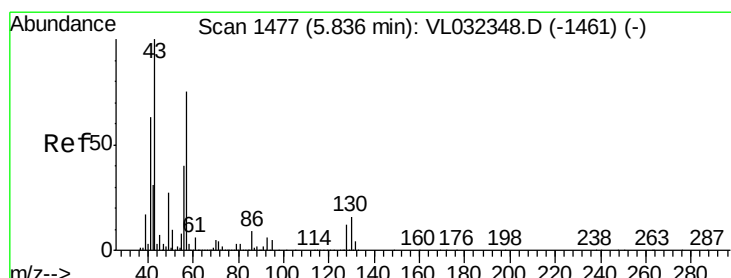
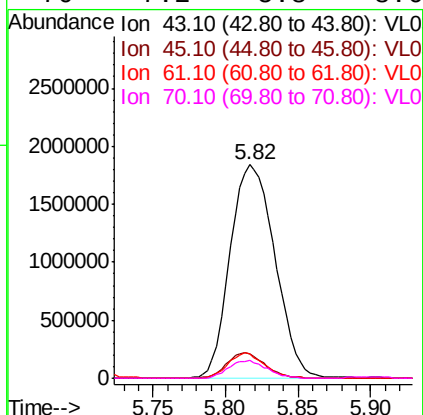
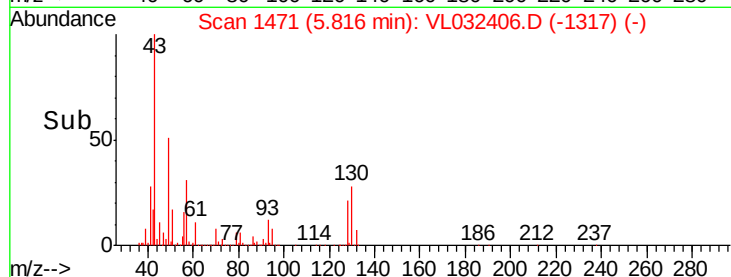
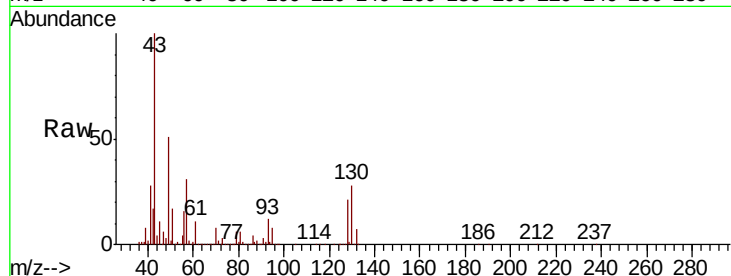
#25
Ethyl Acetate
Concen: 10.36 ppbv
RT: 5.82 min Scan# 1471
Delta R.T. -0.01 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
43	100		
45	10.3	7.9	11.9
61	9.5	7.4	11.2
70	7.2	5.8	8.6

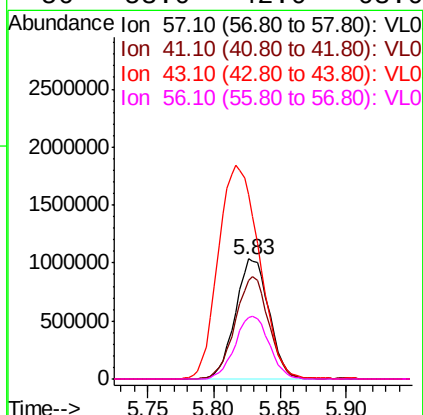
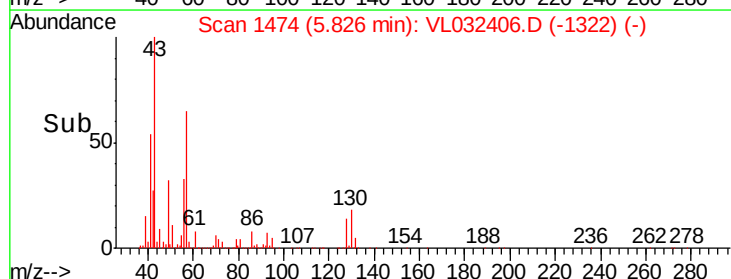
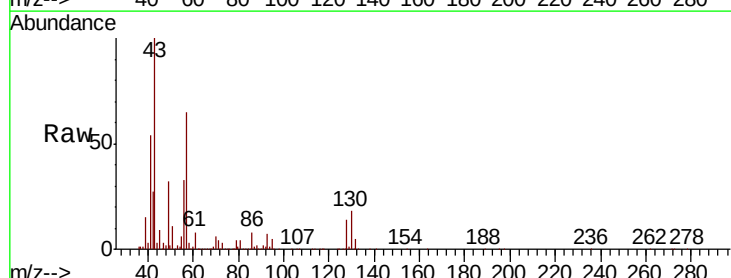
Manual Integrations
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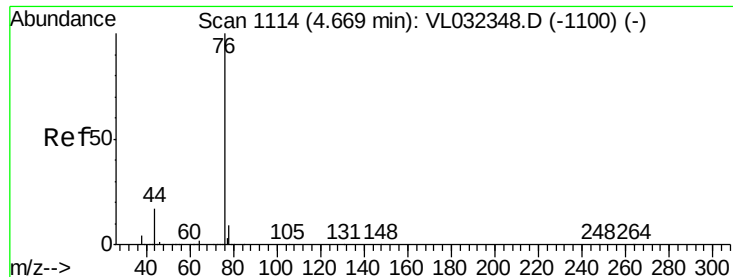
MMDadoda
8/28/2018 2:53:50 PM



#26
Hexane
Concen: 10.75 ppbv
RT: 5.83 min Scan# 1474
Delta R.T. -0.01 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

Tgt Ion	Ratio	Lower	Upper
57	100		
41	85.5	68.0	102.0
43	217.6	175.3	262.9
56	53.0	42.0	63.0





#27

Carbon Disulfide

Concen: 10.76 ppbv

RT: 4.66 min Scan# 1112

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1703337

Ion Ratio Lower Upper

76 100

44 17.7 14.4 21.6

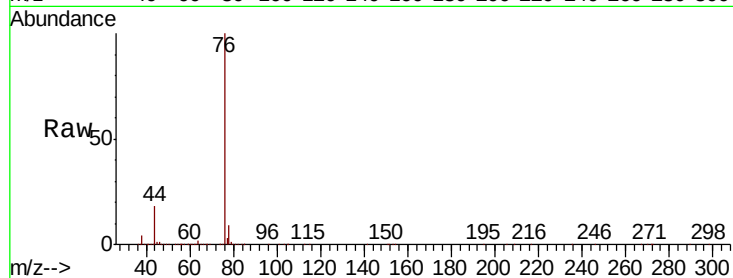
78 9.5 7.4 11.0

Manual Integrations

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MMDadoda

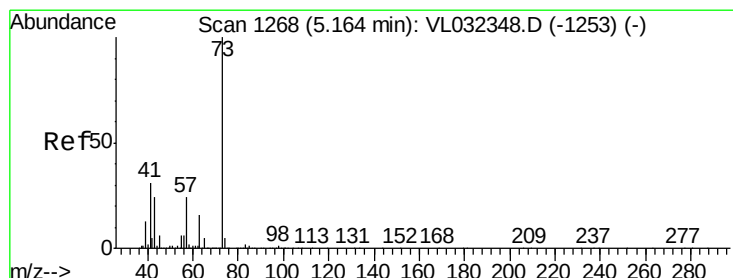
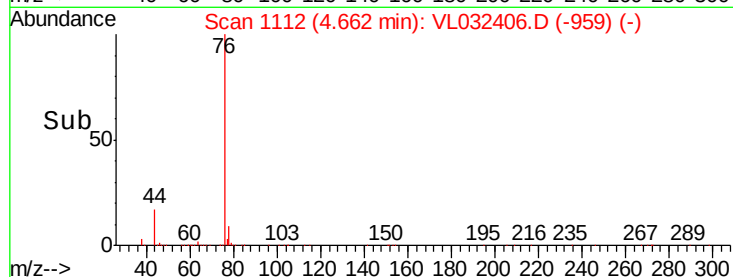
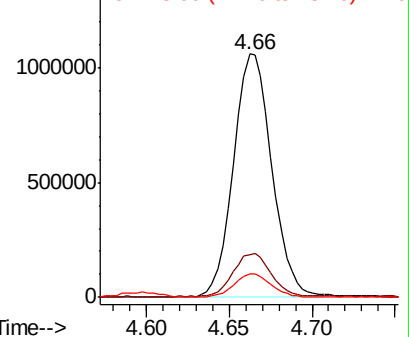
8/28/2018 2:53:50 PM



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.87 ppbv

RT: 5.16 min Scan# 1266

Delta R.T. -0.01 min

Lab File: VL032406.D

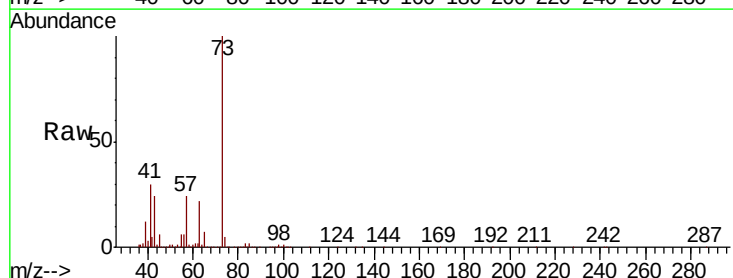
Acq: 20 Aug 2018 14:05

Tgt Ion: 73 Resp: 2221261

Ion Ratio Lower Upper

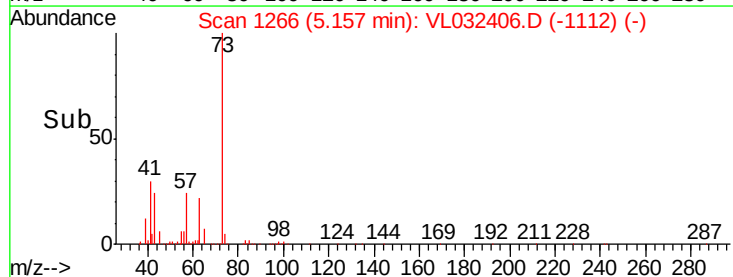
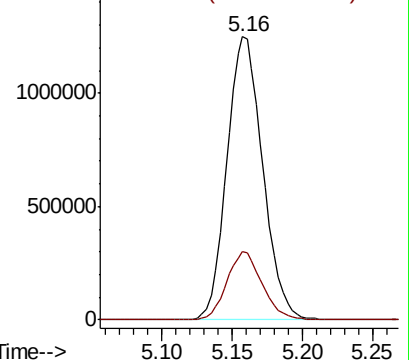
73 100

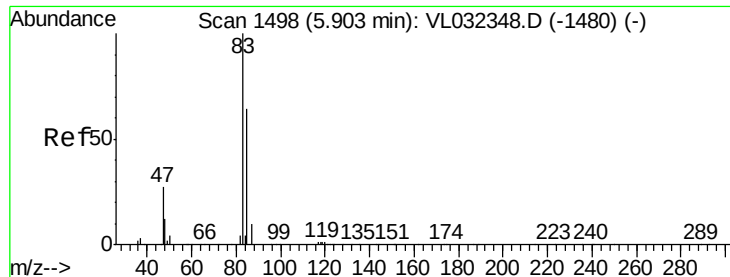
57 23.8 19.3 28.9



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





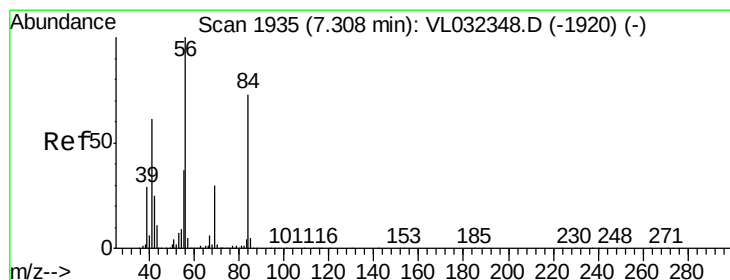
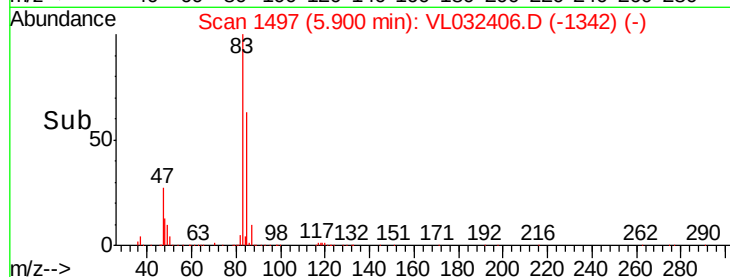
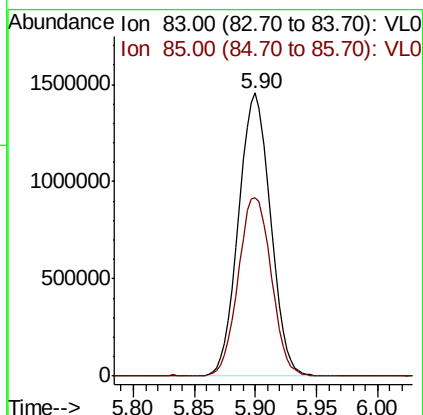
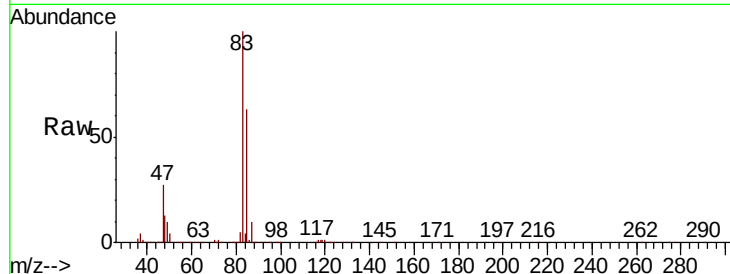
#29
Chloroform
Concen: 10.63 ppbv
RT: 5.90 min Scan# 1497
Delta R.T. -0.00 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 83 Resp: 2641078
Ion Ratio Lower Upper
83 100
85 63.1 51.6 77.4

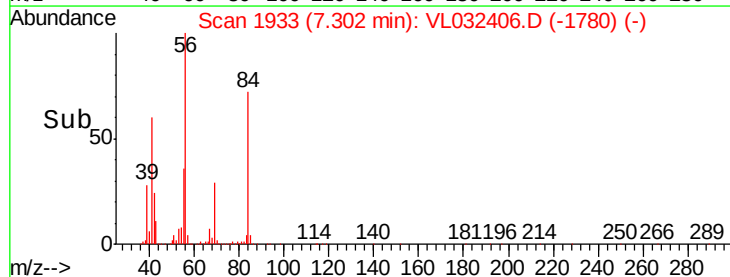
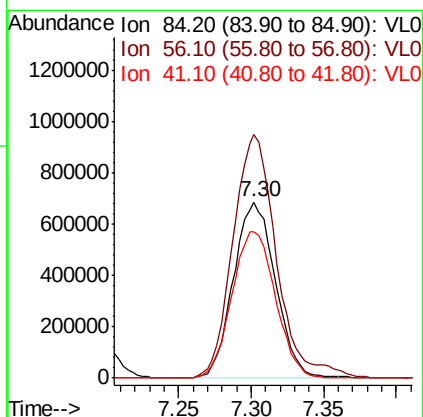
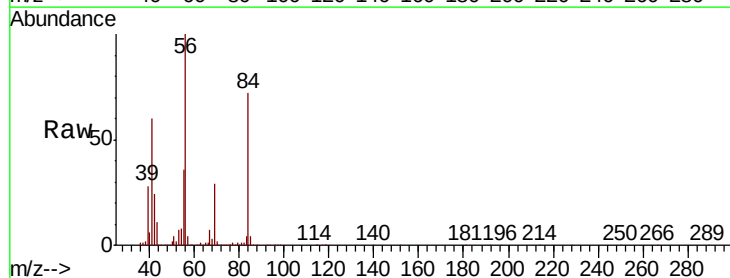
Manual Integrations
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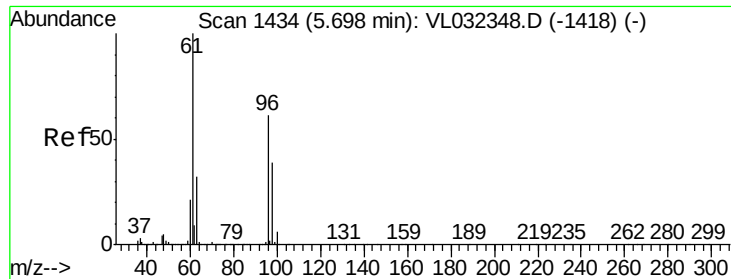
MMDadoda
8/28/2018 2:53:50 PM



#30
Cyclohexane
Concen: 10.60 ppbv
RT: 7.30 min Scan# 1933
Delta R.T. -0.01 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

Tgt Ion: 84 Resp: 1369688
Ion Ratio Lower Upper
84 100
56 144.5 115.7 173.5
41 86.9 67.9 101.9





#31

cis-1,2-Dichloroethene

Concen: 10.07 ppbv

RT: 5.69 min Scan# 1432

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 61 Resp: 1670416

Ion Ratio Lower Upper

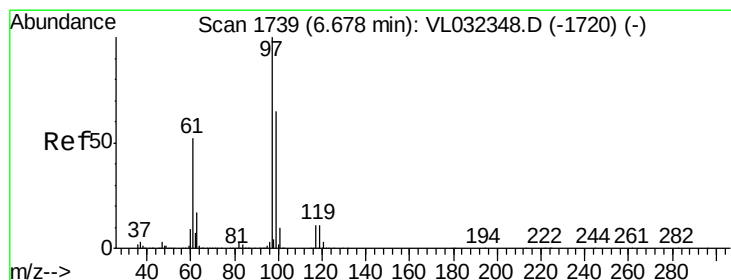
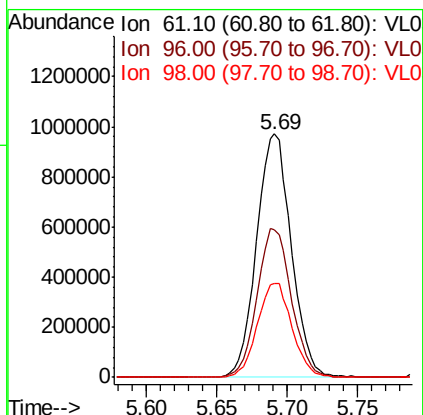
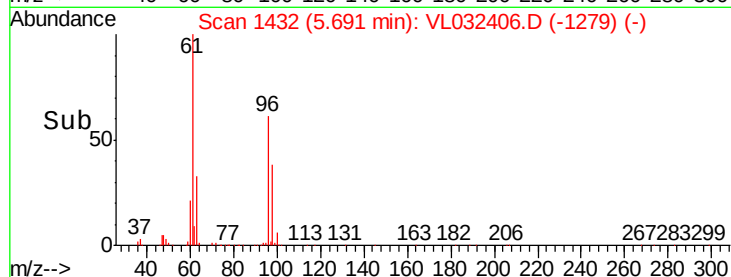
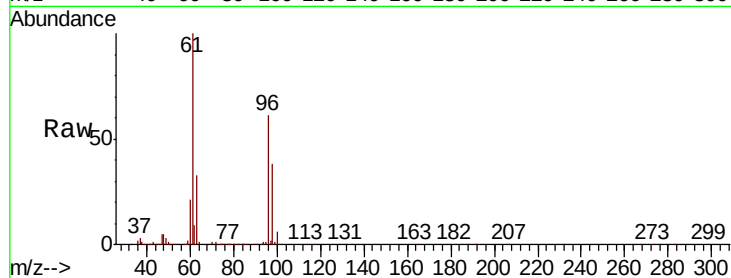
61 100

96 60.8 48.5 72.7

98 38.4 31.0 46.4

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#32

1,1,1-Trichloroethane

Concen: 10.22 ppbv

RT: 6.67 min Scan# 1738

Delta R.T. -0.00 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

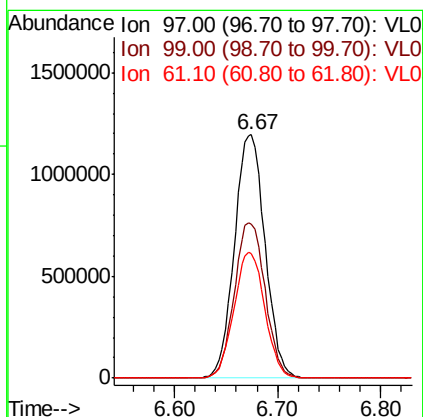
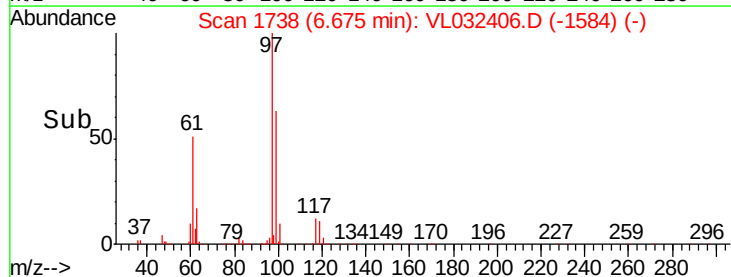
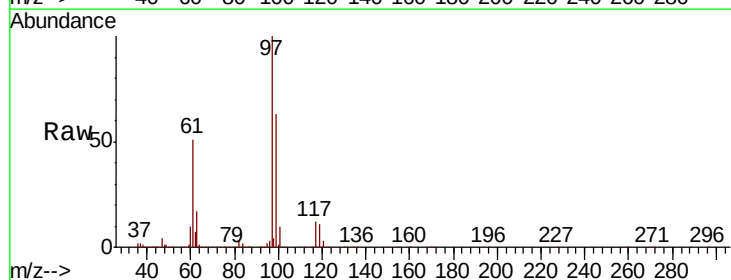
Tgt Ion: 97 Resp: 2471513

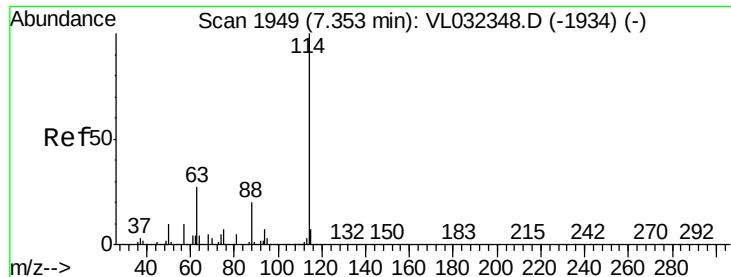
Ion Ratio Lower Upper

97 100

99 64.4 51.1 76.7

61 52.1 41.1 61.7





#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.35 min Scan# 1947

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:114 Resp: 3638959

Ion Ratio Lower Upper

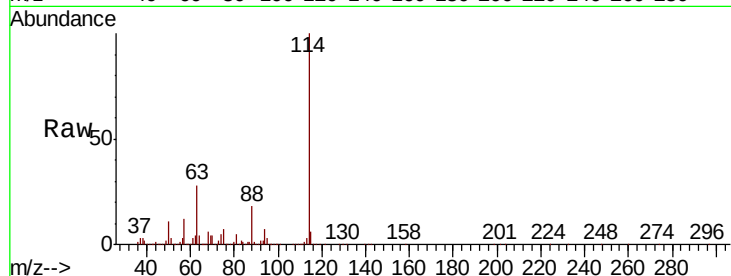
114 100

63 27.9 22.0 33.0

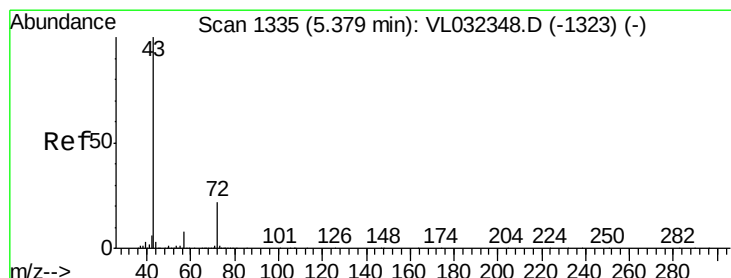
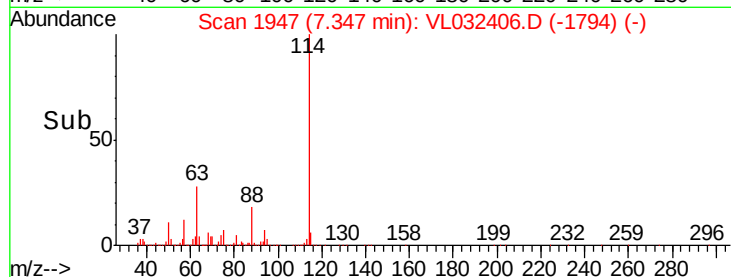
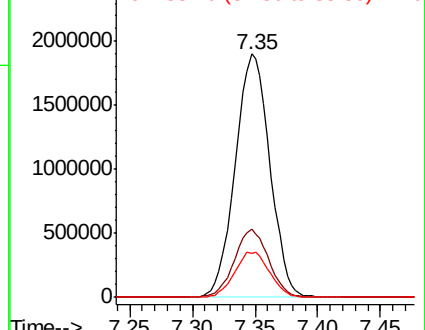
88 18.9 15.3 22.9

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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: 10.31 ppbv

RT: 5.38 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VL032406.D

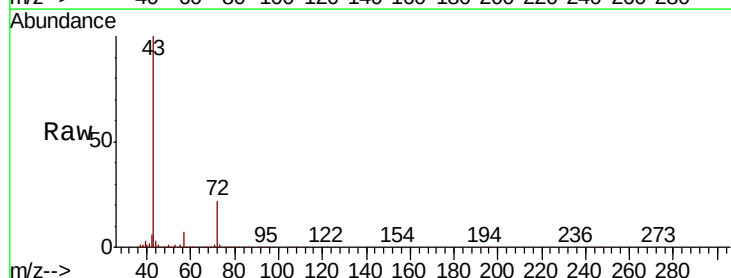
Acq: 20 Aug 2018 14:05

Tgt Ion: 43 Resp: 2552720

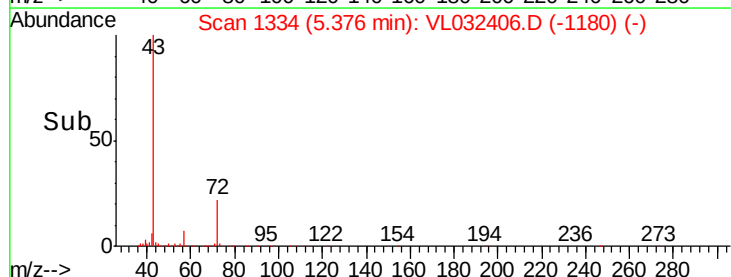
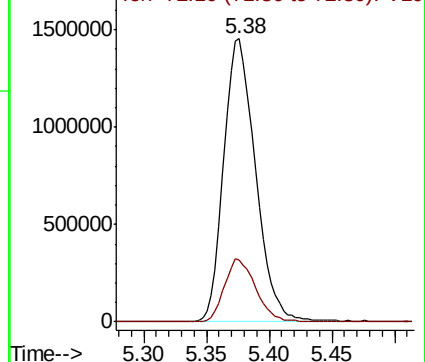
Ion Ratio Lower Upper

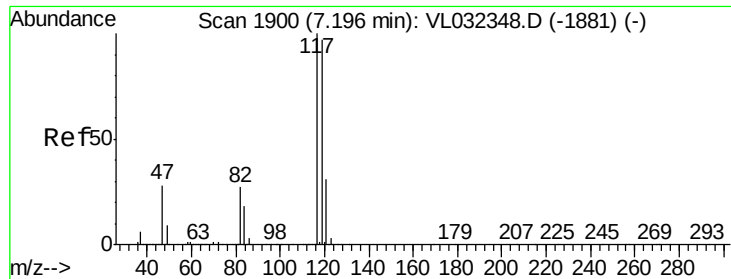
43 100

72 21.8 17.9 26.9



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 72.10 (71.80 to 72.80): VL0





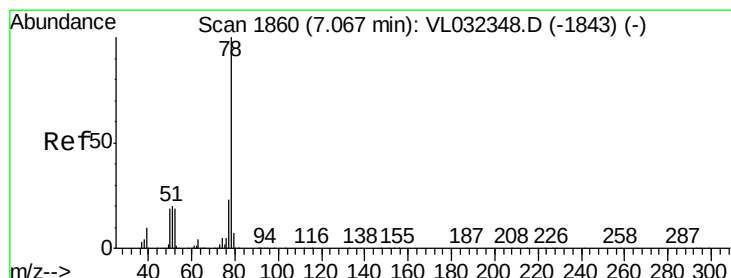
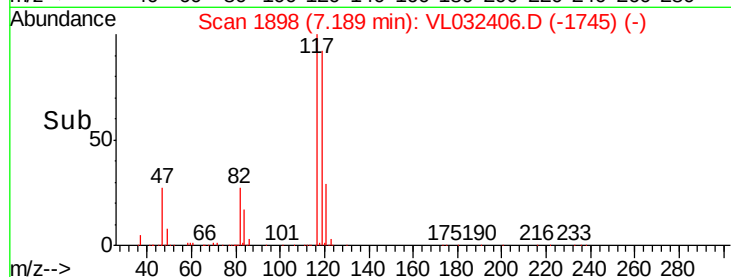
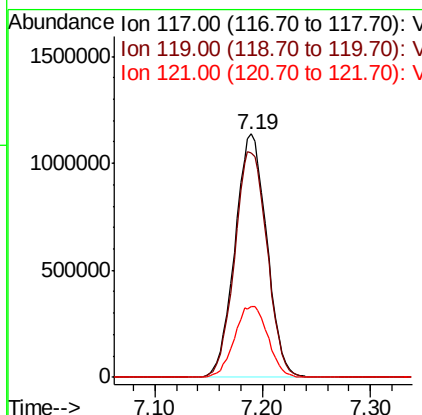
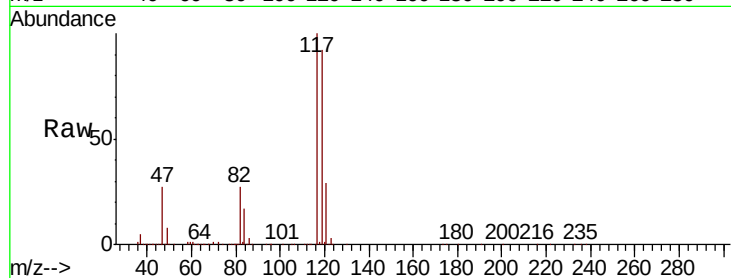
#35
Carbon Tetrachloride
Concen: 10.87 ppbv
RT: 7.19 min Scan# 1898
Delta R.T. -0.01 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
117	100		
119	92.4	77.2	115.8
121	29.3	25.1	37.7

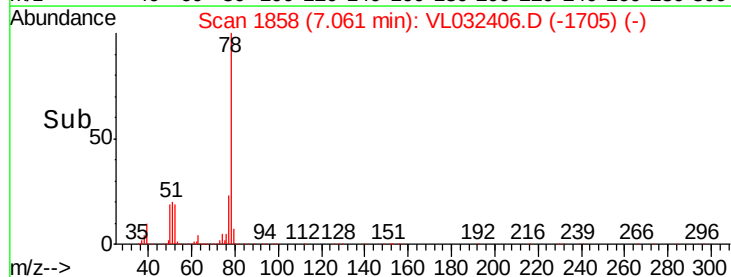
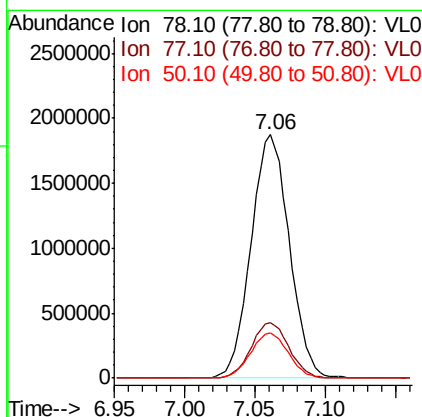
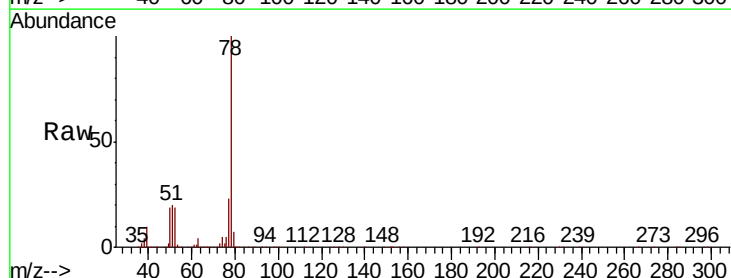
Manual Integrations
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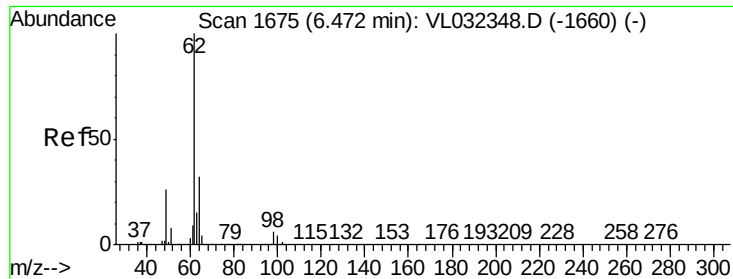
MMDadoda
8/28/2018 2:53:50 PM



#36
Benzene
Concen: 11.51 ppbv
RT: 7.06 min Scan# 1858
Delta R.T. -0.01 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.5	18.0	27.0
50	18.7	15.1	22.7





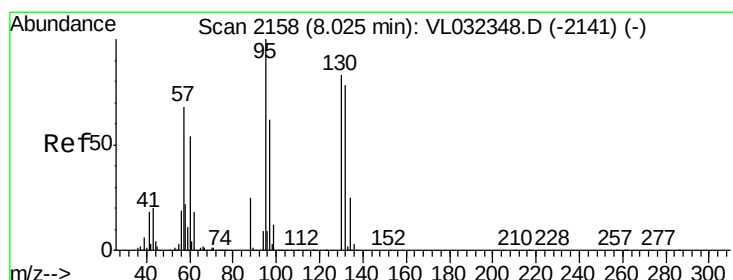
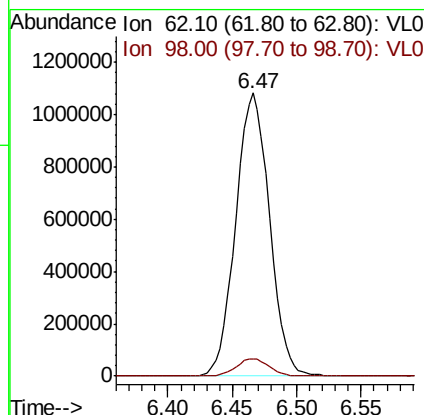
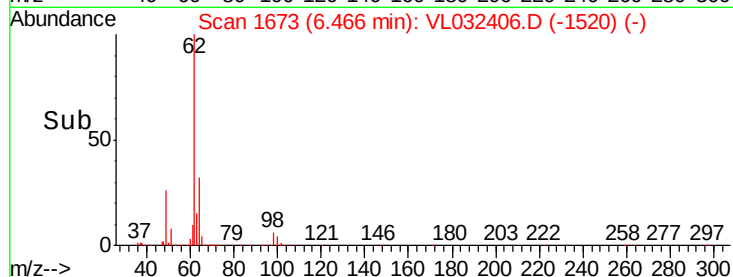
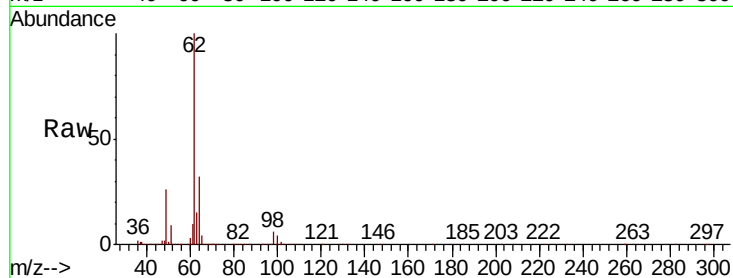
#37
 1,2-Dichloroethane
 Concen: 10.53 ppbv
 RT: 6.47 min Scan# 1673
 Delta R.T. -0.01 min
 Lab File: VL032406.D
 Acq: 20 Aug 2018 14:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 62 Resp: 1971177
 Ion Ratio Lower Upper
 62 100
 98 6.1 5.0 7.6

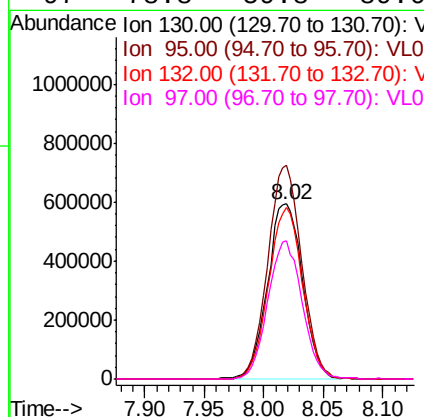
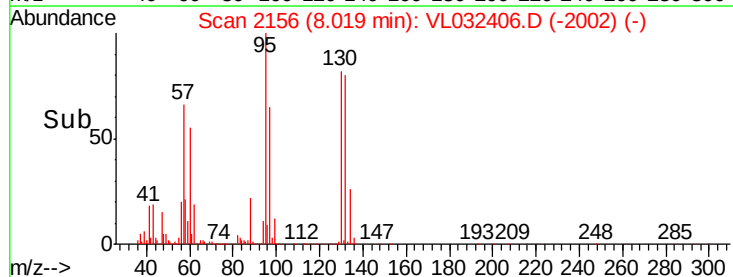
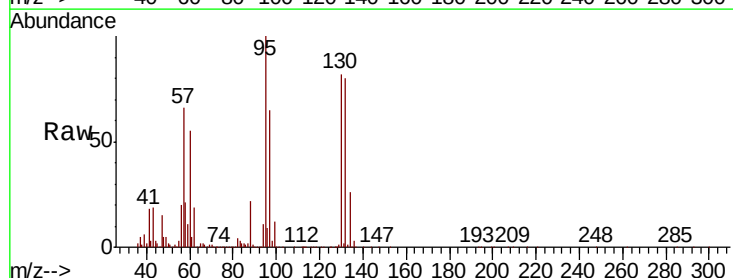
Manual Integrations
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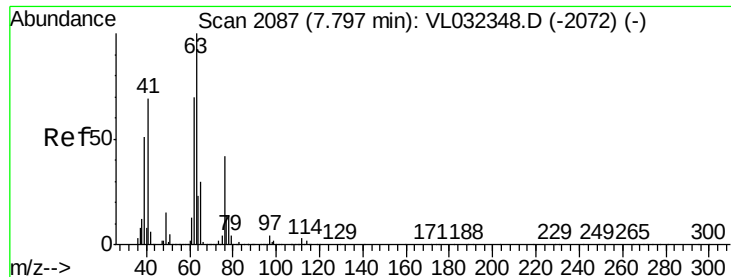
MMDadoda
 8/28/2018 2:53:50 PM



#38
 Trichloroethene
 Concen: 11.20 ppbv
 RT: 8.02 min Scan# 2156
 Delta R.T. -0.01 min
 Lab File: VL032406.D
 Acq: 20 Aug 2018 14:05

Tgt Ion: 130 Resp: 1211696
 Ion Ratio Lower Upper
 130 100
 95 121.9 96.6 144.8
 132 97.8 75.5 113.3
 97 78.8 59.8 89.6





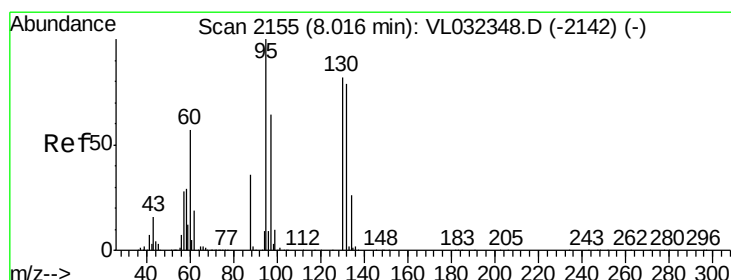
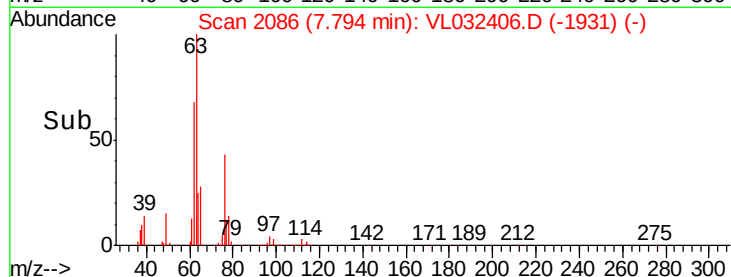
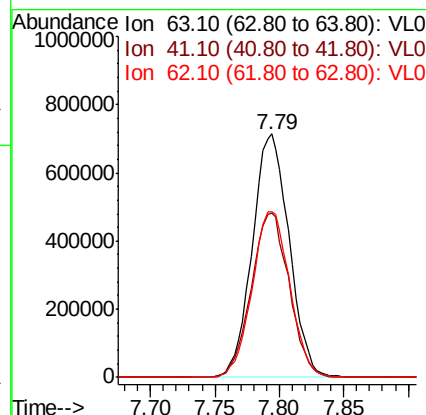
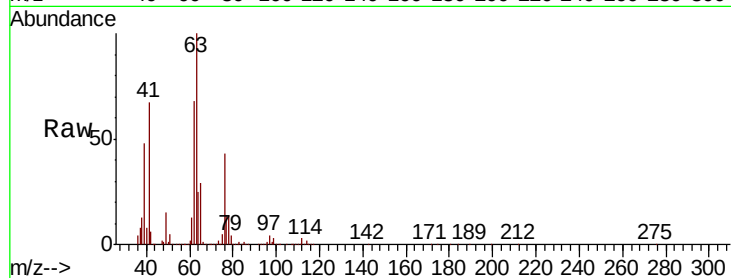
#39
 1,2-Dichloropropane
 Concen: 11.02 ppbv
 RT: 7.79 min Scan# 2086
 Delta R.T. -0.00 min
 Lab File: VL032406.D
 Acq: 20 Aug 2018 14:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:	63	Resp:	1420087
Ion	Ratio	Lower	Upper
63	100		
41	67.2	55.5	83.3
62	68.2	56.3	84.5

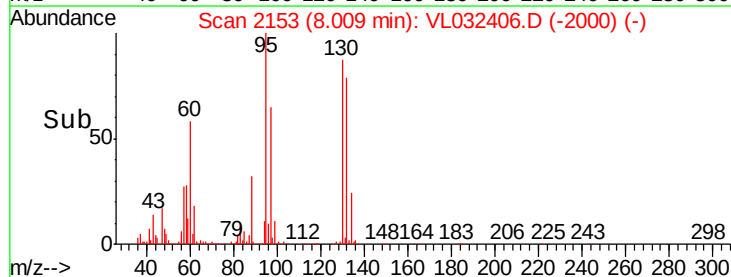
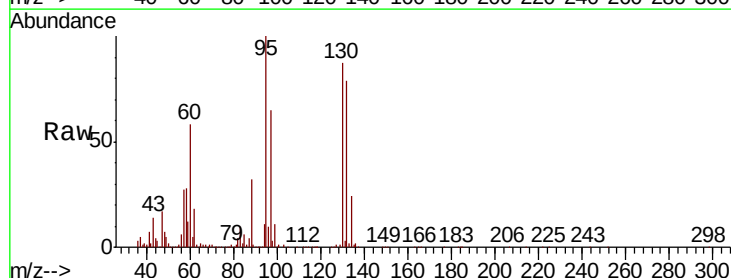
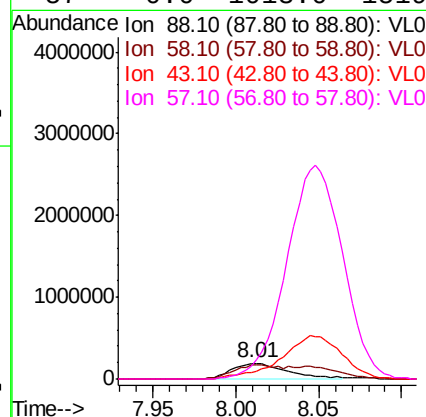
Manual Integrations
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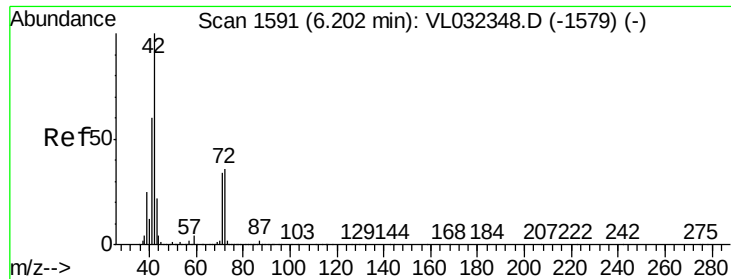
MMDadoda
 8/28/2018 2:53:50 PM



#40
 1,4-Dioxane
 Concen: 11.19 ppbv
 RT: 8.01 min Scan# 2153
 Delta R.T. -0.01 min
 Lab File: VL032406.D
 Acq: 20 Aug 2018 14:05

Tgt Ion:	88	Resp:	437966
Ion	Ratio	Lower	Upper
88	100		
58	152.0	113.7	170.5
43	0.0	224.0	336.0#
57	0.0	1013.0	1519.6#





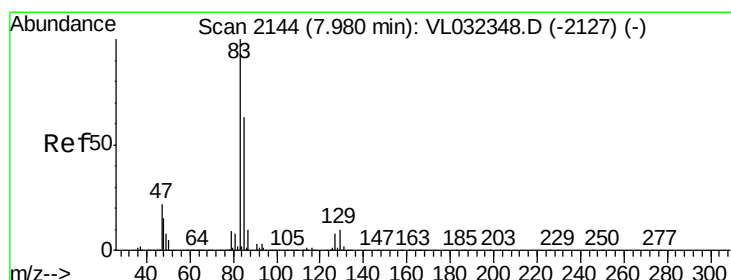
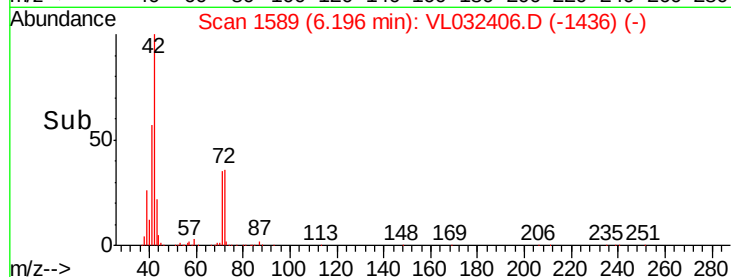
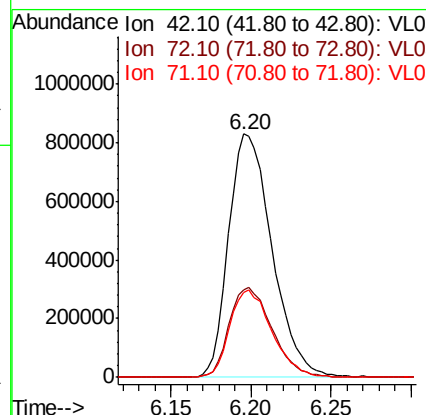
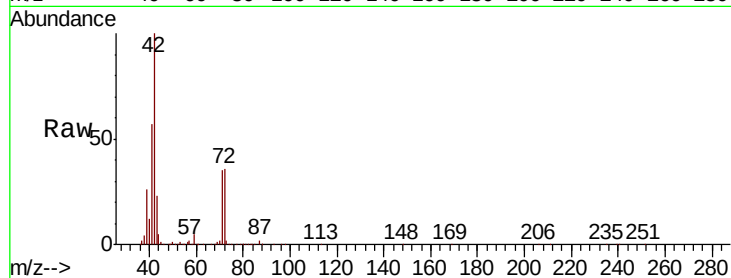
#41
Tetrahydrofuran
Concen: 11.49 ppbv
RT: 6.20 min Scan# 1589
Delta R.T. -0.01 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.9	29.8	44.6
71	35.2	28.2	42.2

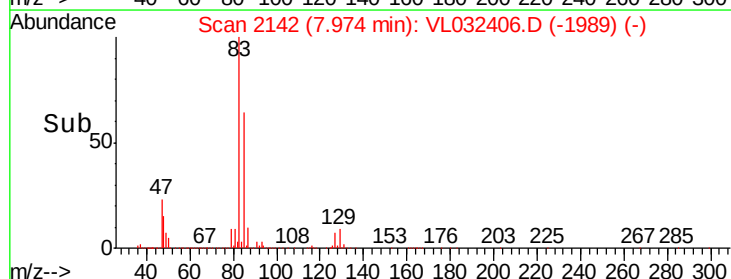
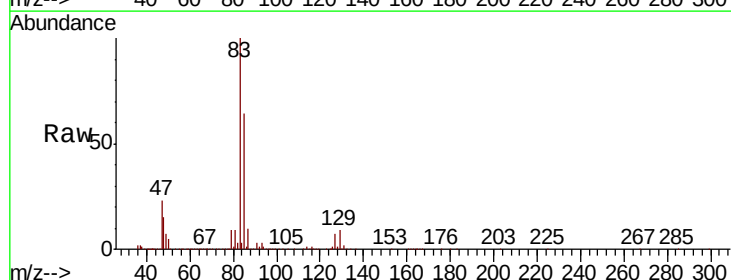
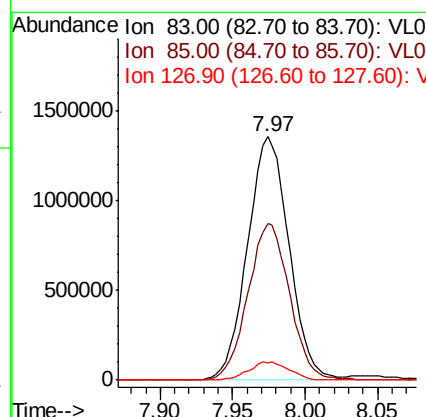
Manual Integrations
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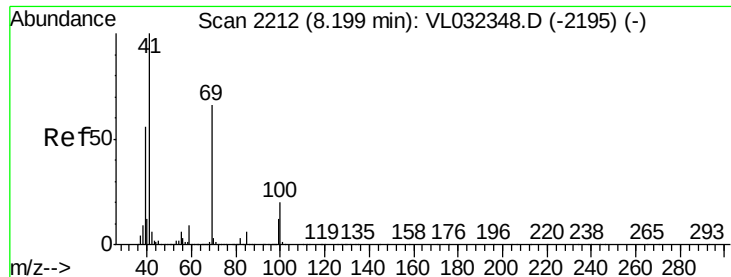
MMDadoda
8/28/2018 2:53:50 PM



#42
Bromodichloromethane
Concen: 11.05 ppbv
RT: 7.97 min Scan# 2142
Delta R.T. -0.01 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.3	50.4	75.6
127	6.8	6.1	9.1





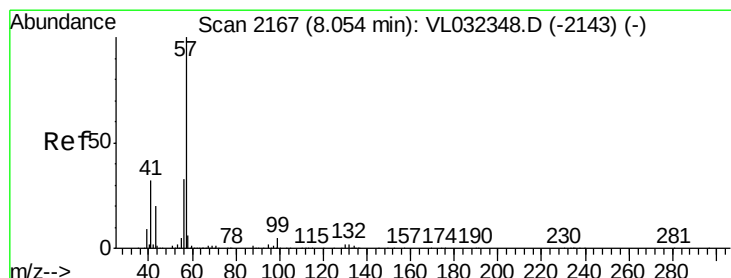
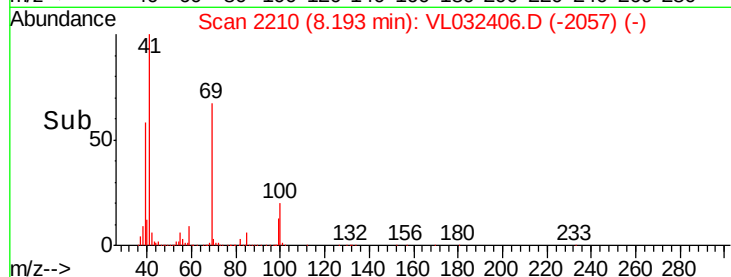
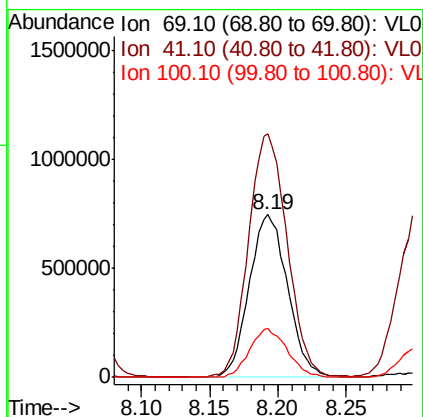
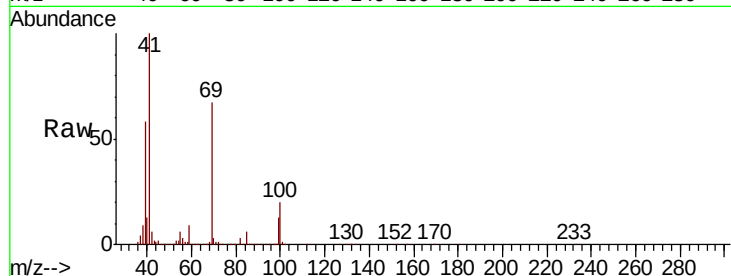
#43
Methyl Methacrylate
Concen: 11.86 ppbv
RT: 8.19 min Scan# 2210
Delta R.T. -0.01 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 69 Resp: 1457772
Ion Ratio Lower Upper
69 100
41 150.9 118.6 177.8
100 29.7 23.4 35.2

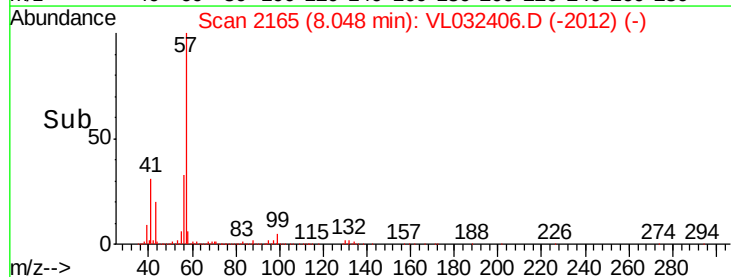
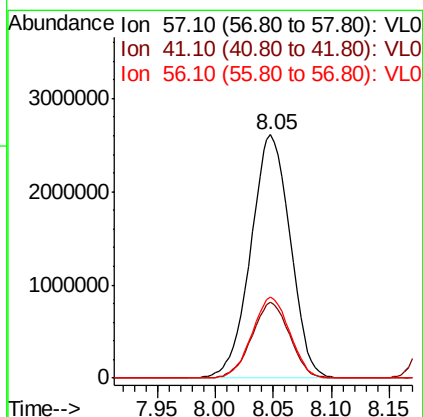
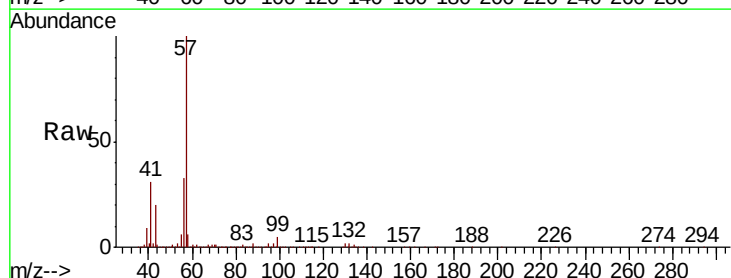
Manual Integrations
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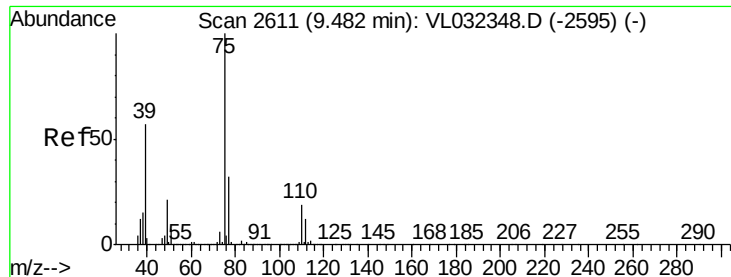
MMDadoda
8/28/2018 2:53:50 PM



#44
2,2,4-Trimethylpentane
Concen: 11.11 ppbv
RT: 8.05 min Scan# 2165
Delta R.T. -0.01 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

Tgt Ion: 57 Resp: 6181511
Ion Ratio Lower Upper
57 100
41 30.1 24.3 36.5
56 32.1 25.7 38.5





#45

t-1,3-Dichloropropene

Concen: 12.88 ppbv

RT: 9.48 min Scan# 2609

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 75 Resp: 2001997

Ion Ratio Lower Upper

75 100

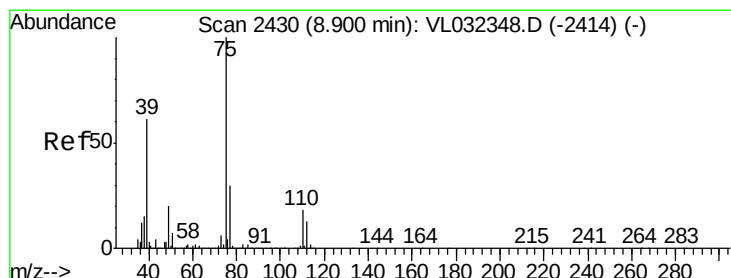
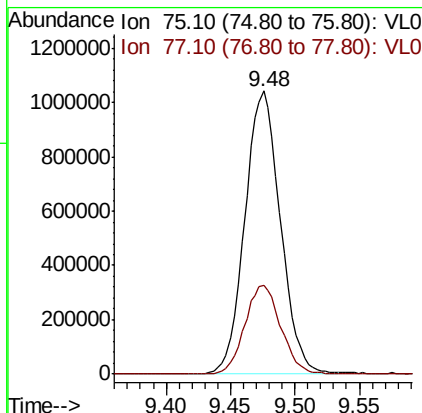
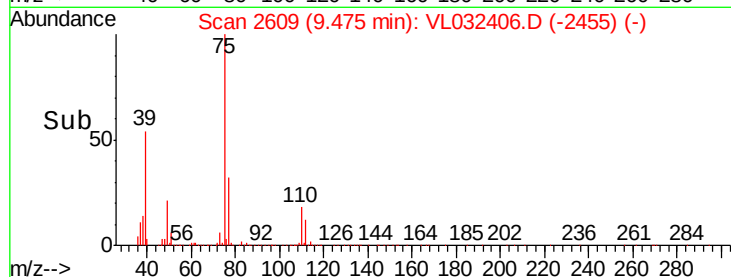
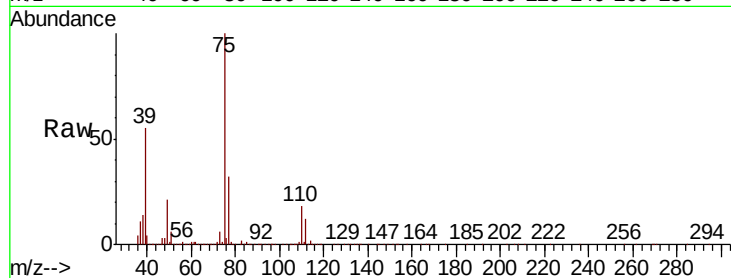
77 31.6 25.4 38.2

Manual Integrations

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8/28/2018 2:53:50 PM



#46

cis-1,3-Dichloropropene

Concen: 12.73 ppbv

RT: 8.89 min Scan# 2428

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

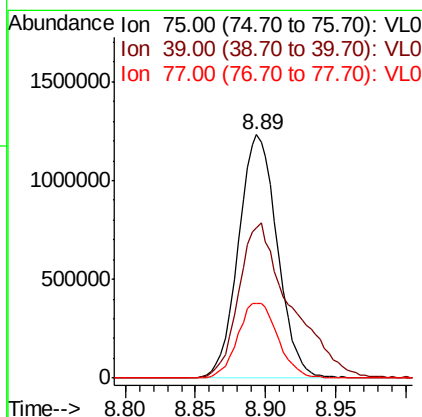
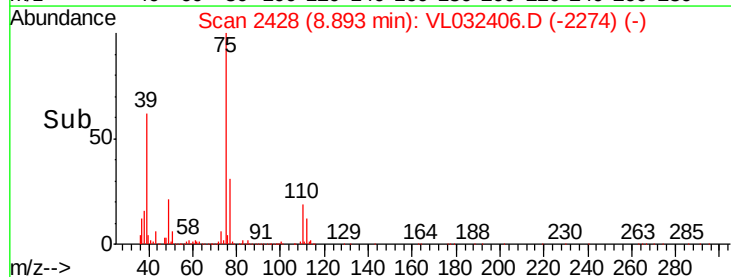
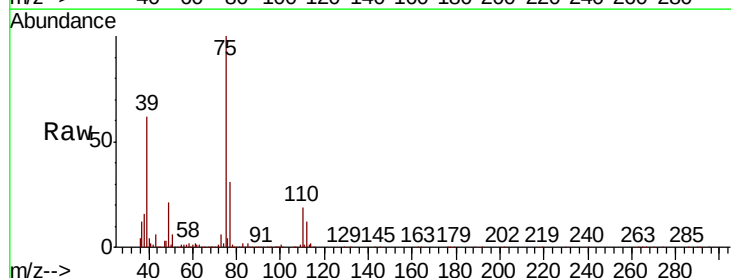
Tgt Ion: 75 Resp: 2374493

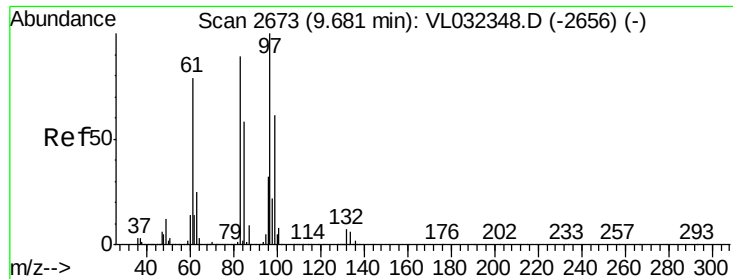
Ion Ratio Lower Upper

75 100

39 61.7 48.5 72.7

77 30.7 24.3 36.5





#47

1,1,2-Trichloroethane

Concen: 10.49 ppbv

RT: 9.67 min Scan# 2671

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

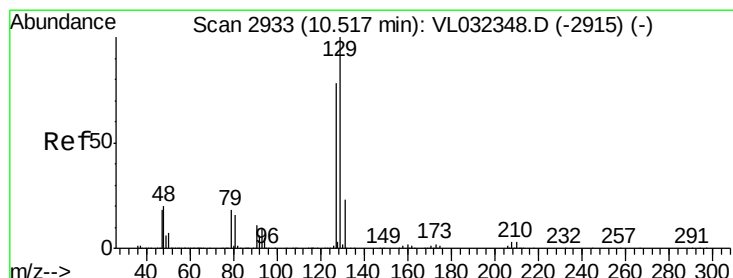
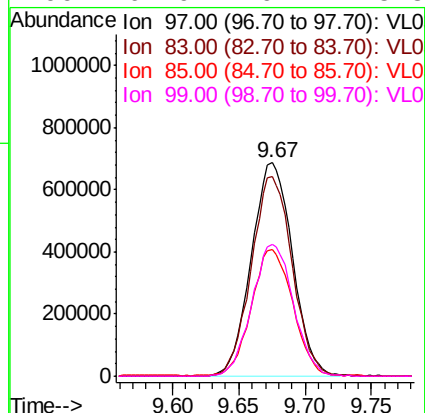
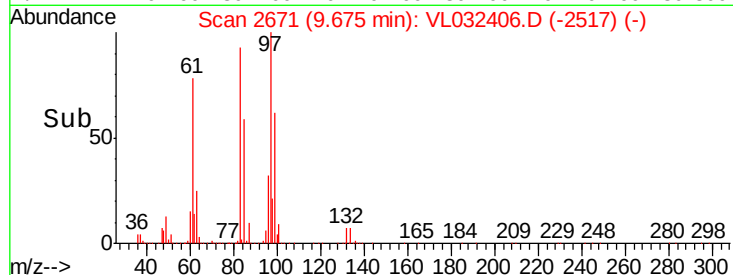
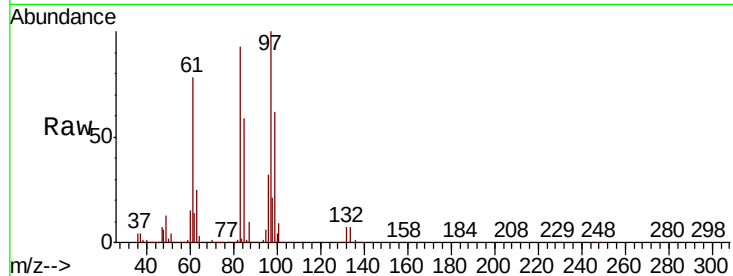
ClientSampleId :

VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	93.2	71.2	106.8	
85	58.9	46.6	69.8	
99	61.9	49.2	73.8	

Manual Integrations
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#48

Dibromochloromethane

Concen: 11.23 ppbv

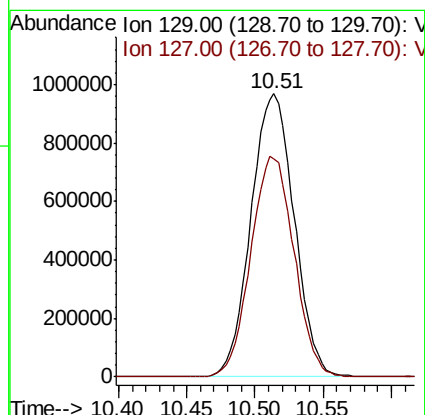
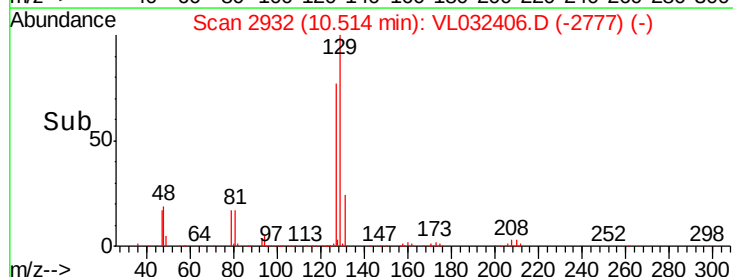
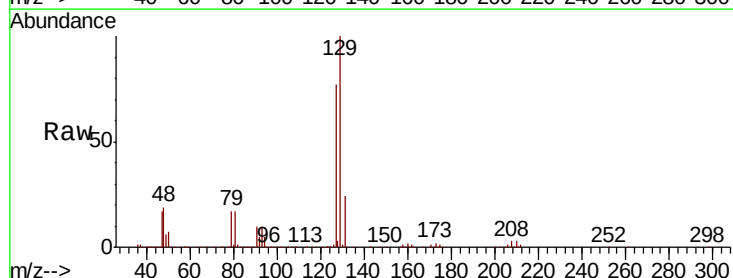
RT: 10.51 min Scan# 2932

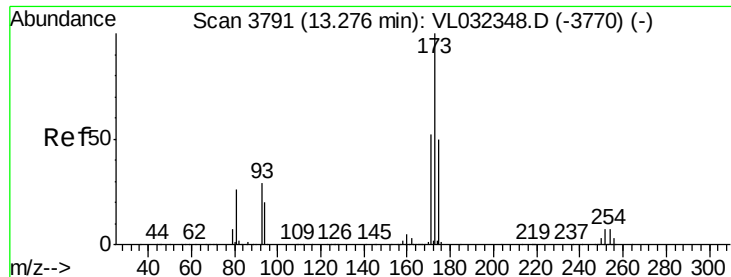
Delta R.T. -0.00 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.0	39.3	117.9	





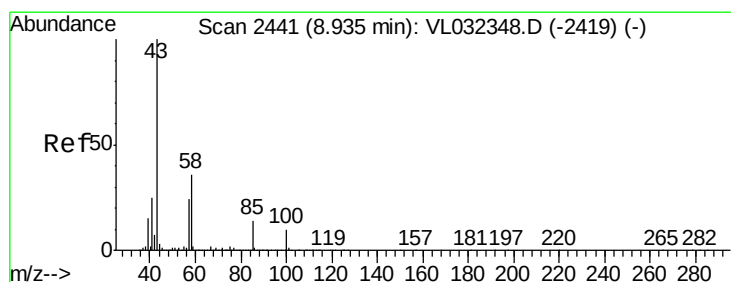
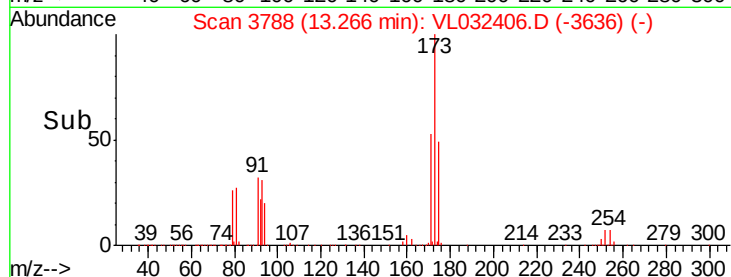
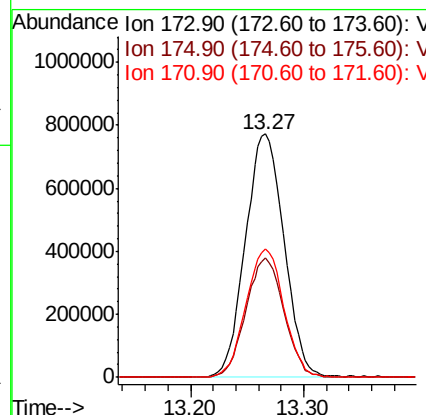
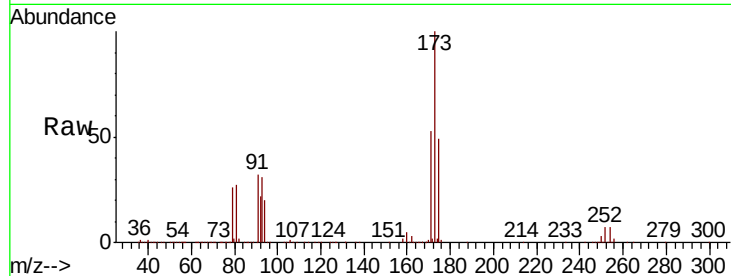
#49
Bromoform
Concen: 11.67 ppbv
RT: 13.27 min Scan# 3788
Delta R.T. -0.01 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:173 Resp: 1837500
Ion Ratio Lower Upper
173 100
175 48.4 39.3 58.9
171 52.0 41.9 62.9

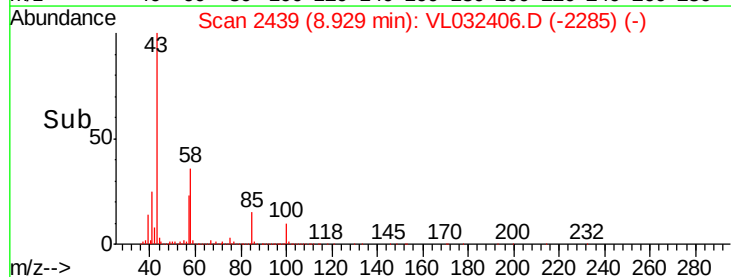
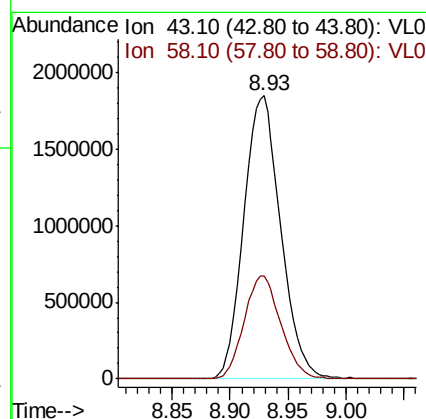
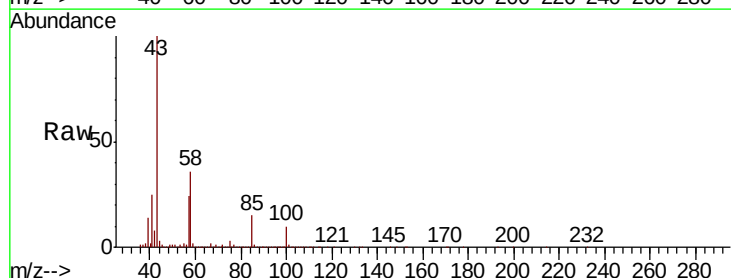
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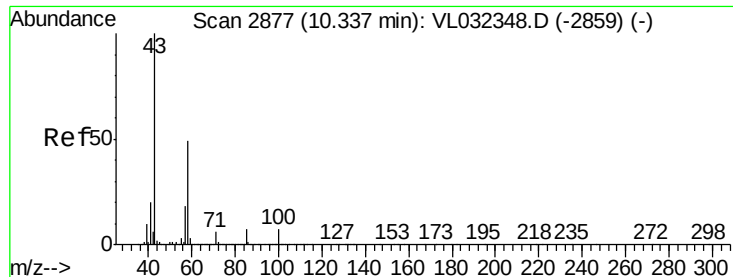
MMDadoda
8/28/2018 2:53:50 PM



#50
4-Methyl-2-Pentanone
Concen: 11.41 ppbv
RT: 8.93 min Scan# 2439
Delta R.T. -0.01 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

Tgt Ion: 43 Resp: 4082867
Ion Ratio Lower Upper
43 100
58 36.2 28.9 43.3





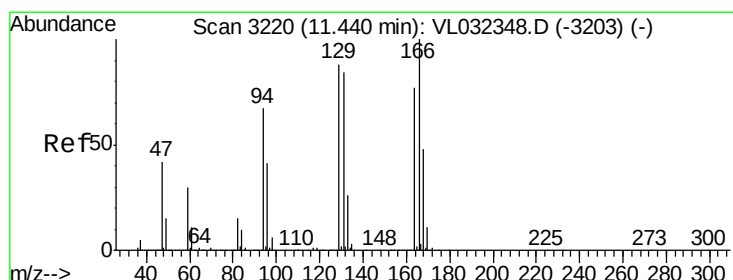
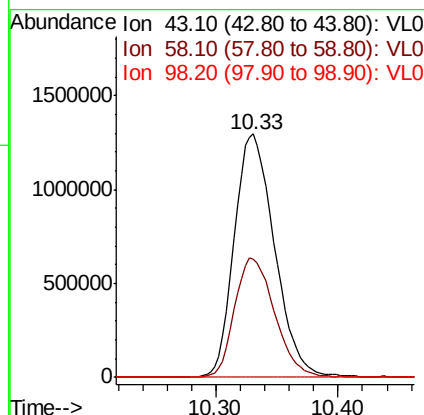
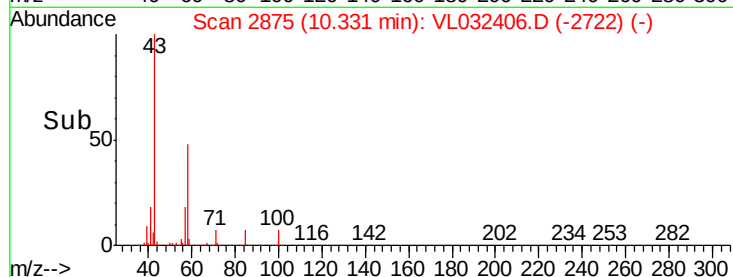
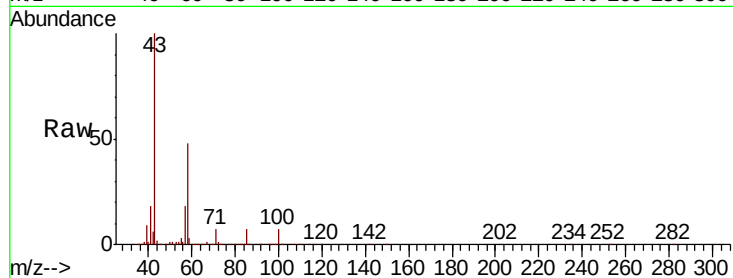
#51
2-Hexanone
Concen: 11.79 ppbv
RT: 10.33 min Scan# 2875
Delta R.T. -0.01 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
43	100		
58	49.0	39.5	59.3
98	0.3	0.3	0.5

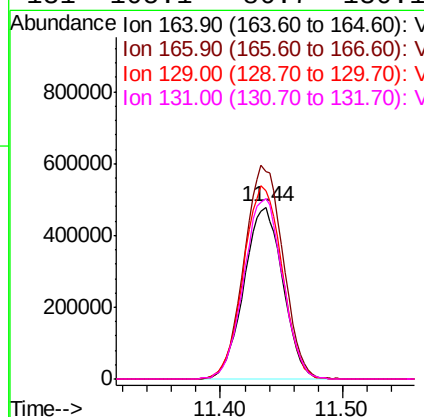
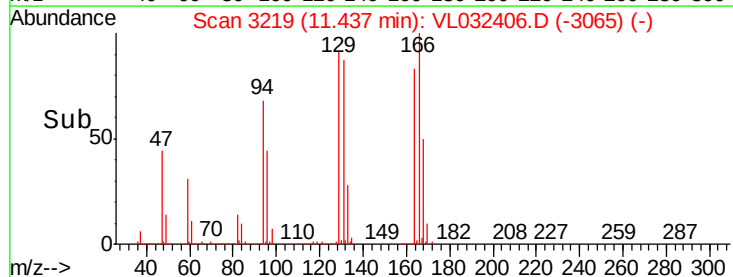
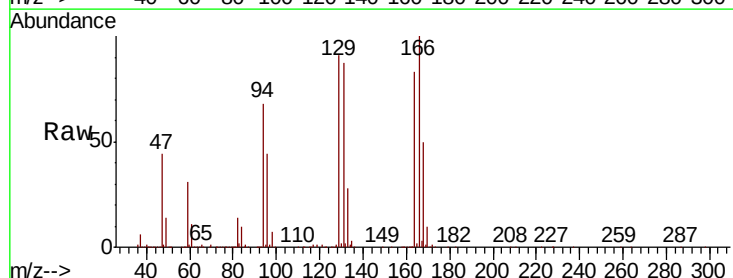
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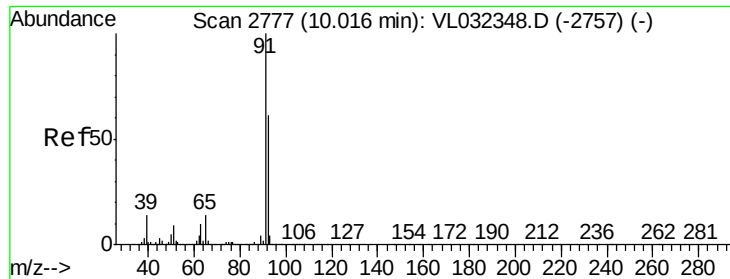
MMDadoda
8/28/2018 2:53:50 PM



#52
Tetrachloroethene
Concen: 11.51 ppbv
RT: 11.44 min Scan# 3219
Delta R.T. -0.00 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

Tgt Ion	Ratio	Lower	Upper
164	100		
166	120.8	103.5	155.3
129	109.7	90.9	136.3
131	105.1	86.7	130.1





#53

Toluene

Concen: 12.14 ppbv

RT: 10.01 min Scan# 2774

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 4104856

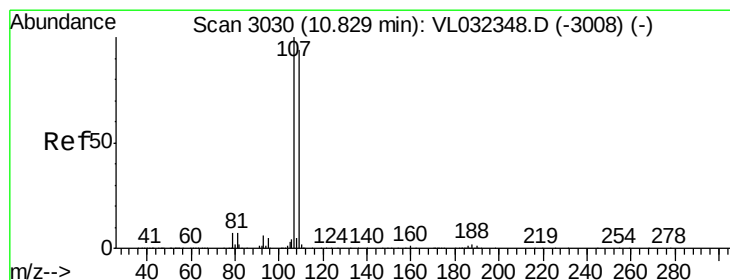
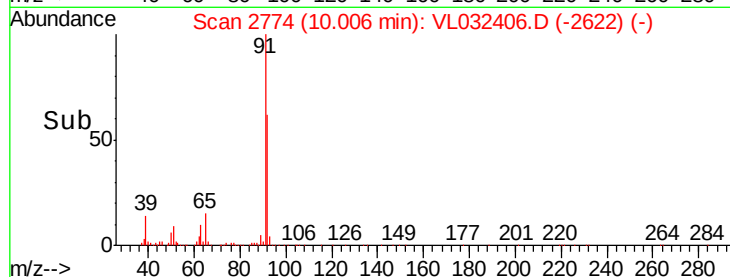
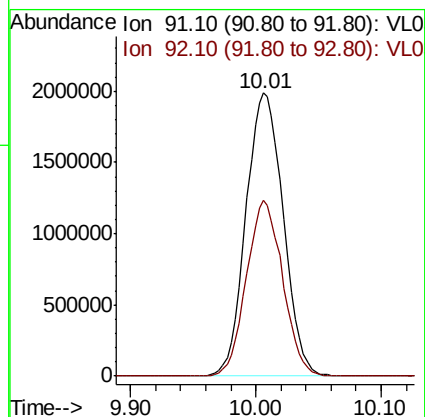
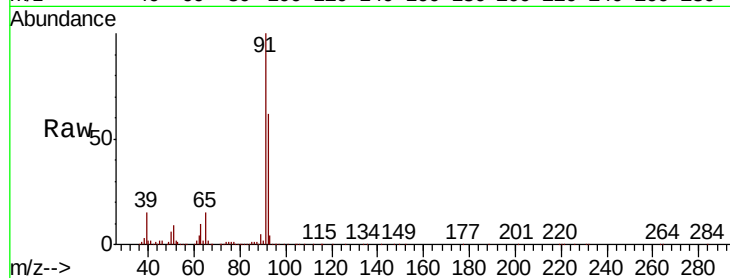
Ion Ratio Lower Upper

91 100

92 60.5 48.7 73.1

Manual Integrations
APPROVED

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8/28/2018 2:53:50 PM



#54

1,2-Dibromoethane

Concen: 10.78 ppbv

RT: 10.82 min Scan# 3027

Delta R.T. -0.01 min

Lab File: VL032406.D

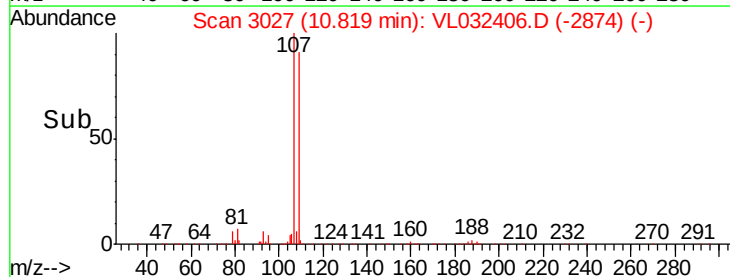
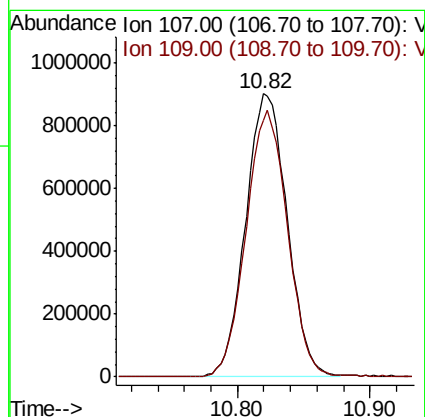
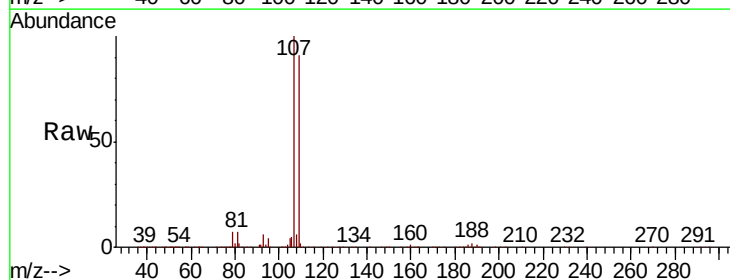
Acq: 20 Aug 2018 14:05

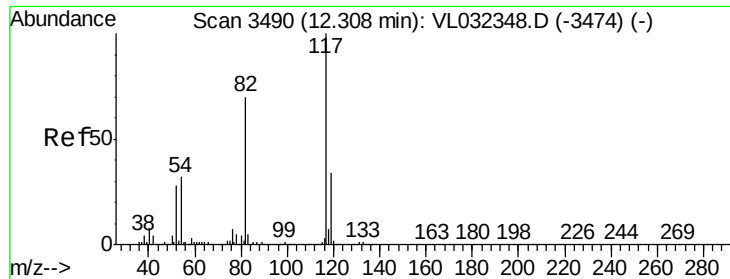
Tgt Ion: 107 Resp: 1963610

Ion Ratio Lower Upper

107 100

109 90.5 74.9 112.3





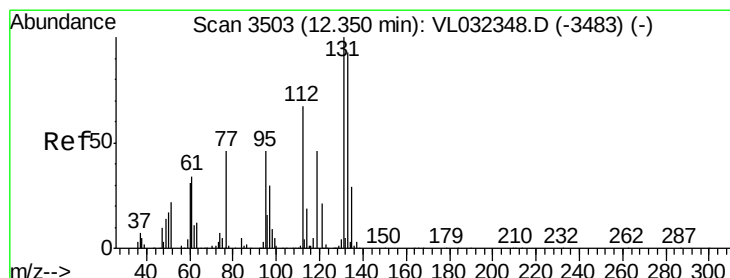
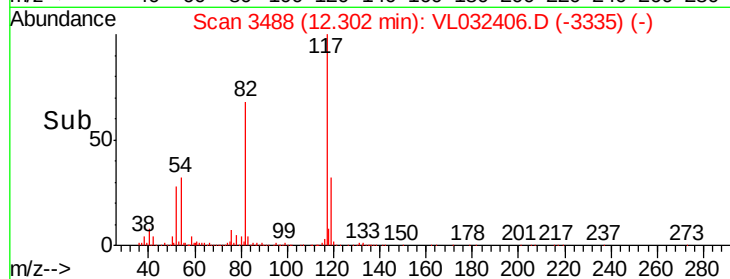
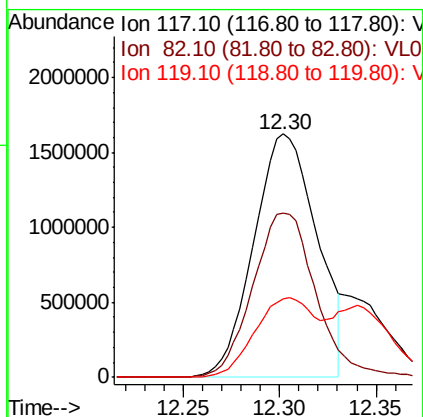
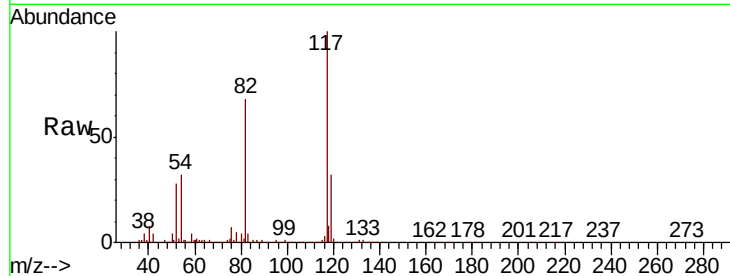
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.30 min Scan# 3488
Delta R.T. -0.01 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
117	100		
82	68.1	55.1	82.7
119	34.7	46.0	69.0#

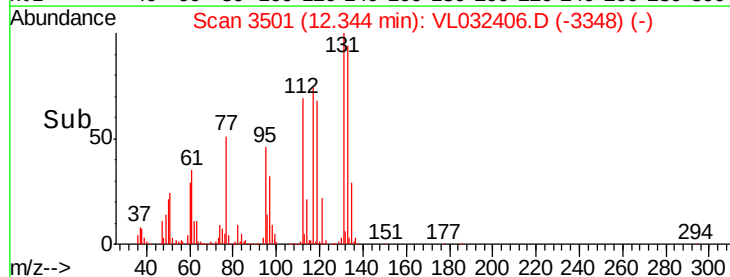
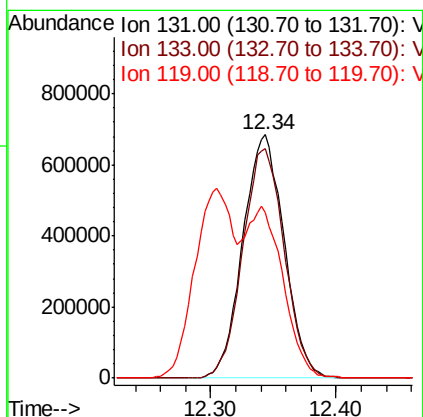
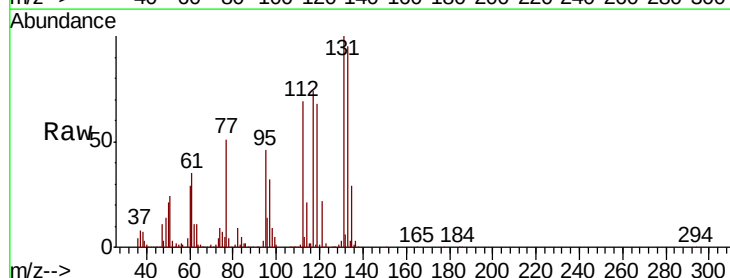
Manual Integrations
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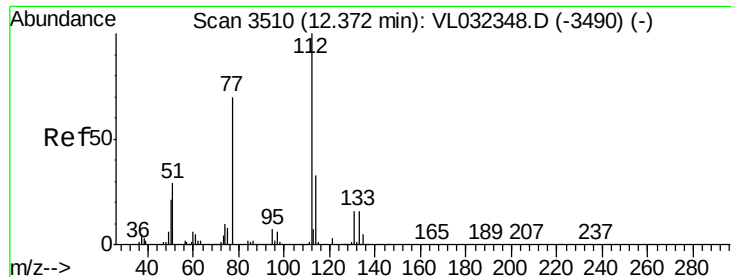
MMDadoda
8/28/2018 2:53:50 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 10.21 ppbv
RT: 12.34 min Scan# 3501
Delta R.T. -0.01 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.1	75.7	113.5
119	56.8	116.0	174.0#





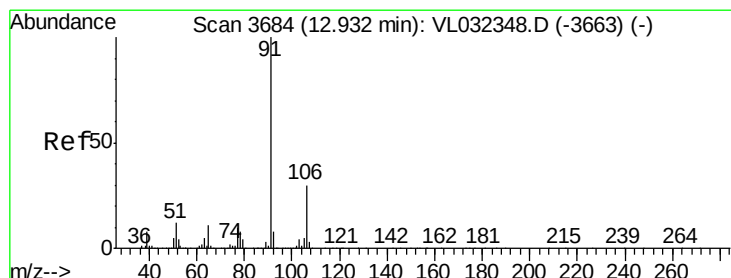
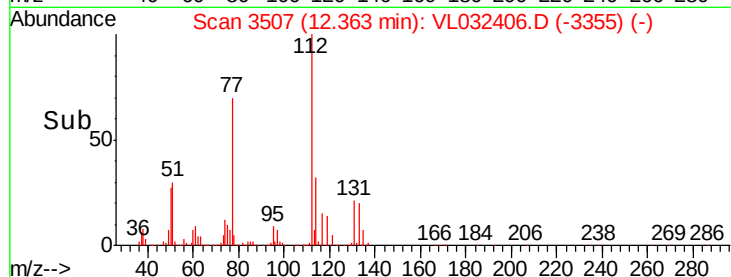
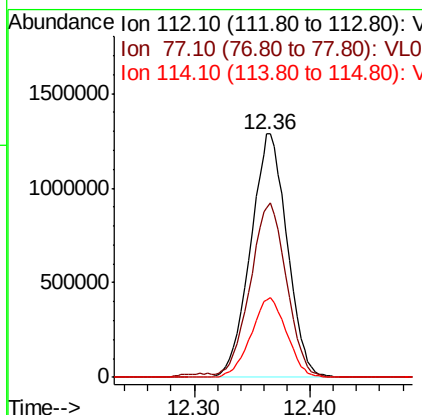
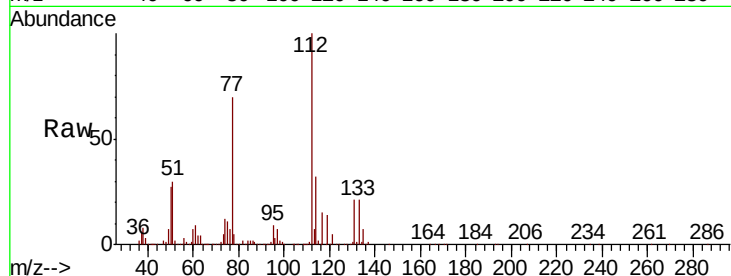
#57
Chlorobenzene
Concen: 10.06 ppbv
RT: 12.36 min Scan# 3507
Delta R.T. -0.01 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
112	100		
77	69.4	56.6	84.8
114	31.7	29.4	36.0

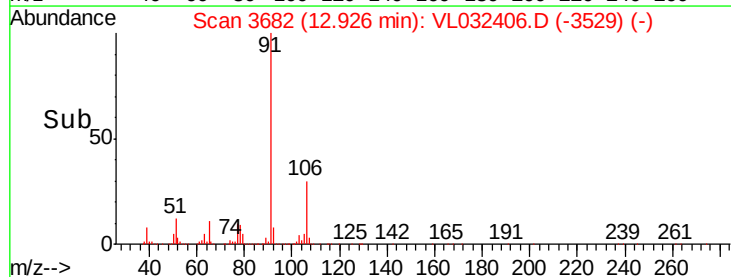
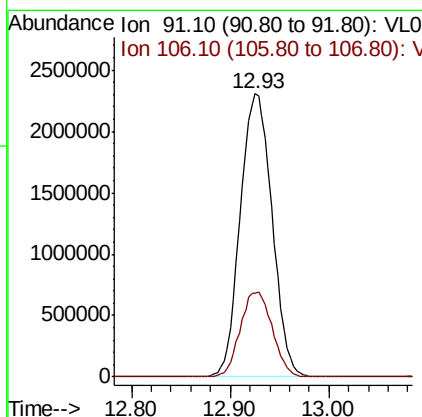
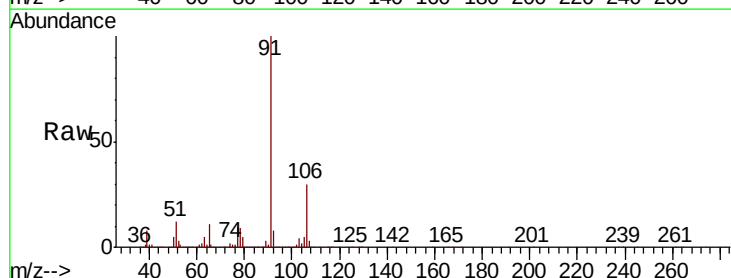
Manual Integrations
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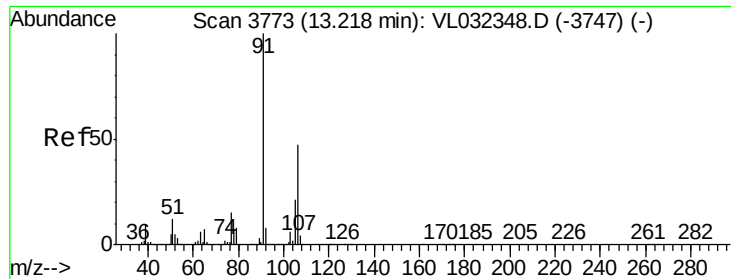
MMDadoda
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#58
Ethyl Benzene
Concen: 11.53 ppbv
RT: 12.93 min Scan# 3682
Delta R.T. -0.01 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.7	24.3	36.5





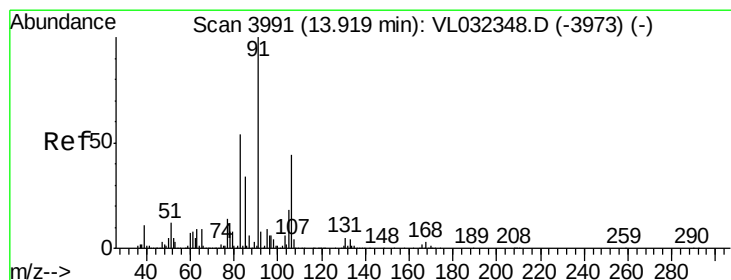
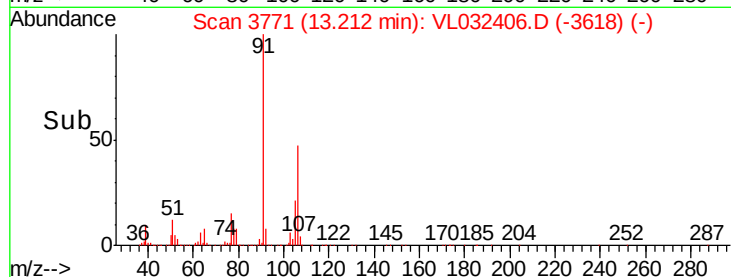
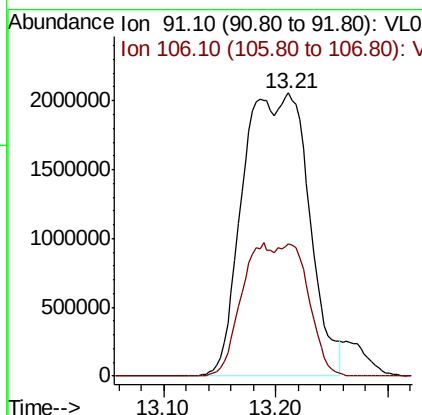
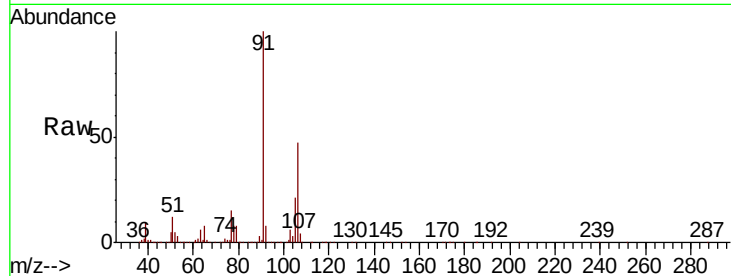
#59
m/p-Xylene
Concen: 22.09 ppbv m
RT: 13.21 min Scan# 3771
Delta R.T. -0.01 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 8383404
Ion Ratio Lower Upper
91 100
106 0.0 37.0 55.4#

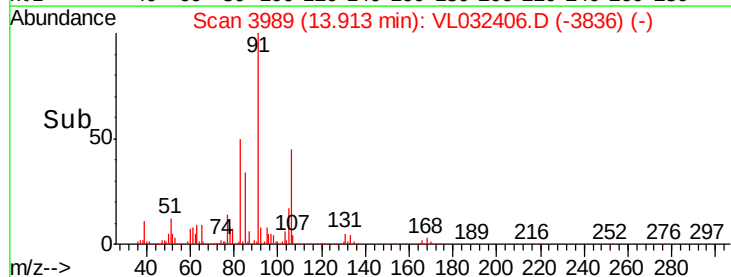
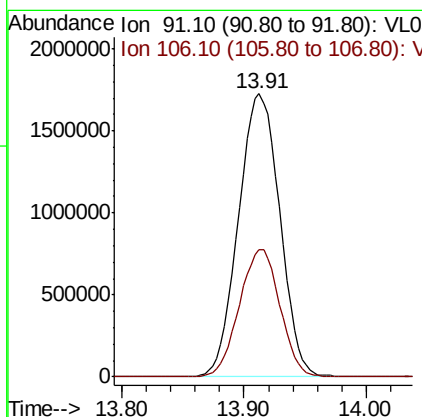
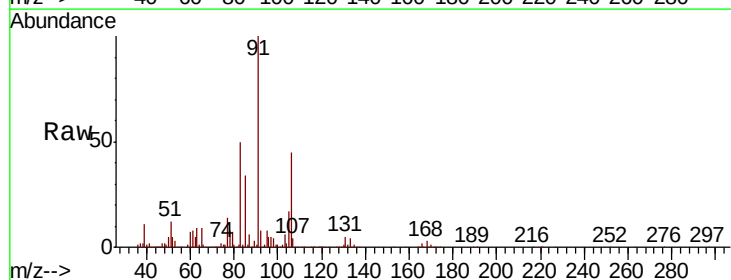
Manual Integrations
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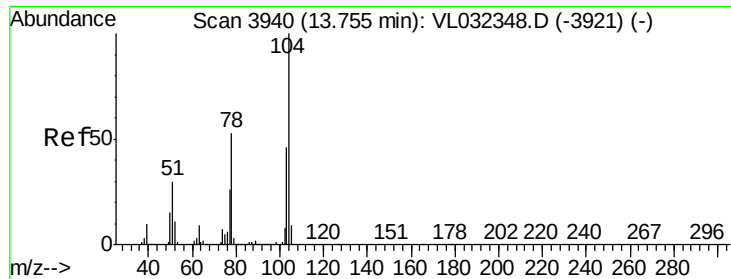
MMDadoda
8/28/2018 2:53:50 PM



#60
o-Xylene
Concen: 10.83 ppbv
RT: 13.91 min Scan# 3989
Delta R.T. -0.01 min
Lab File: VL032406.D
Acq: 20 Aug 2018 14:05

Tgt Ion: 91 Resp: 4039294
Ion Ratio Lower Upper
91 100
106 44.4 22.3 66.8





#61

Stvrene

Concen: 12.04 ppbv

RT: 13.75 min Scan# 3938

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:104 Resp: 3138658

Ion Ratio Lower Upper

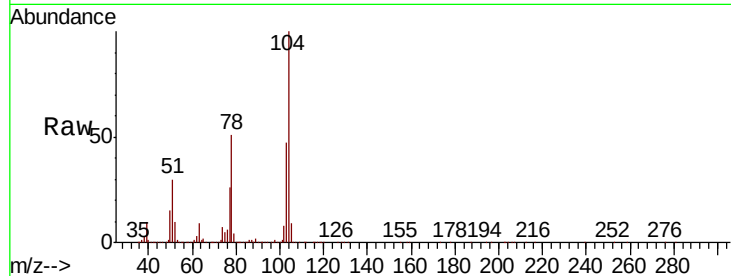
104 100

78 52.9 42.6 64.0

103 47.4 38.0 57.0

Manual Integrations
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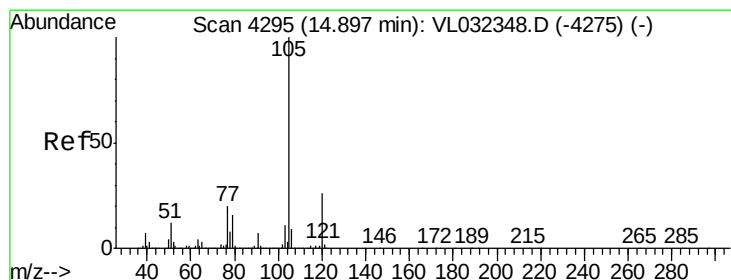
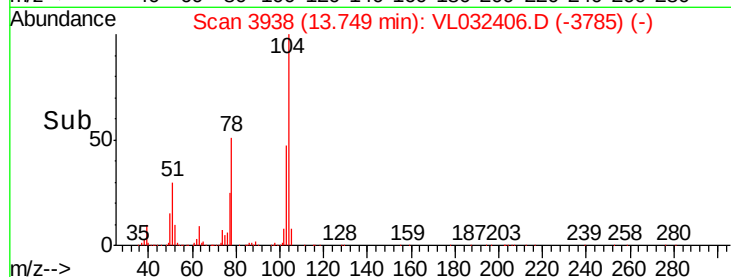
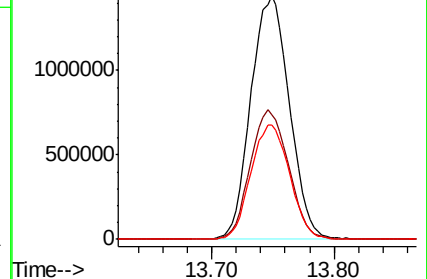
MMDadoda
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Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 10.81 ppbv

RT: 14.89 min Scan# 4292

Delta R.T. -0.01 min

Lab File: VL032406.D

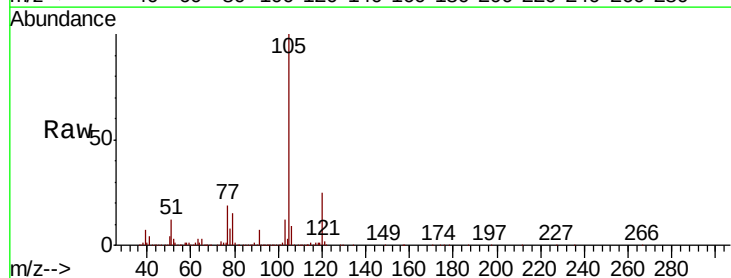
Acq: 20 Aug 2018 14:05

Tgt Ion:105 Resp: 5738175

Ion Ratio Lower Upper

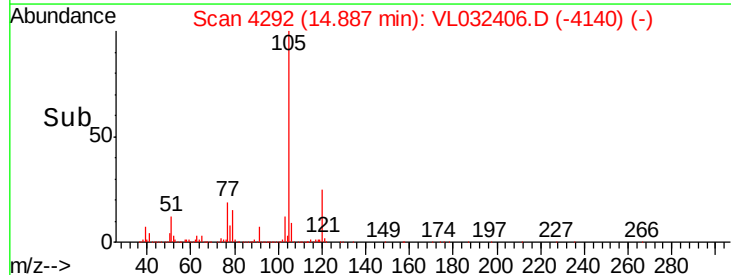
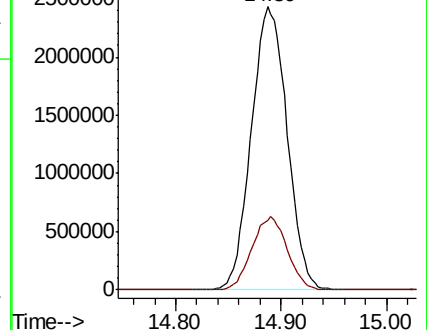
105 100

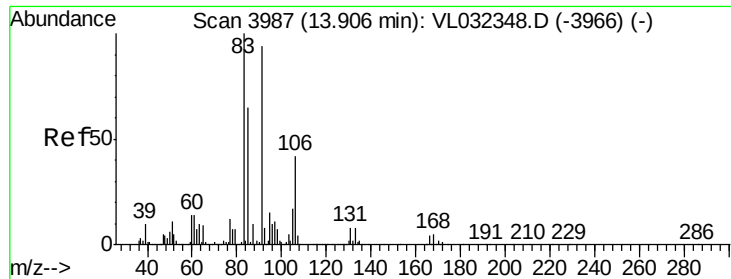
120 25.5 20.6 30.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





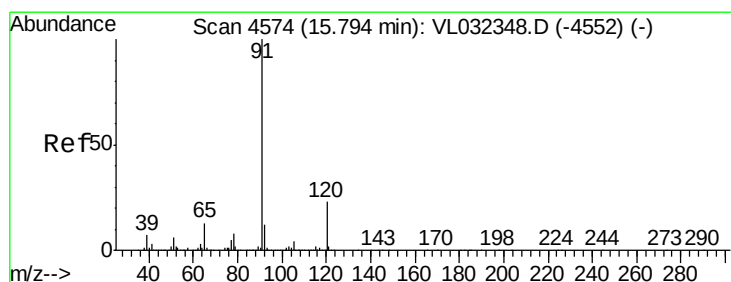
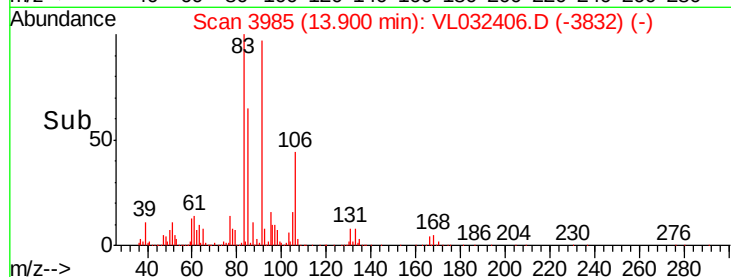
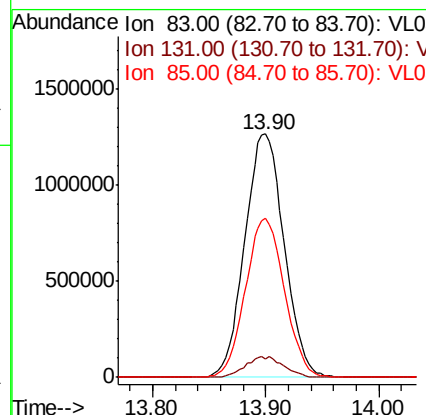
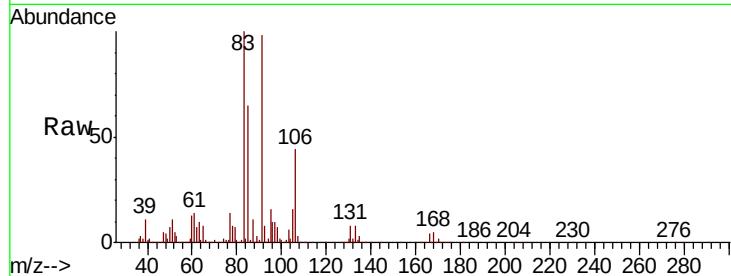
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.77 ppbv
 RT: 13.90 min Scan# 3985
 Delta R.T. -0.01 min
 Lab File: VL032406.D
 Acq: 20 Aug 2018 14:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
83	100		
131	8.4	4.3	12.8
85	65.0	32.4	97.2

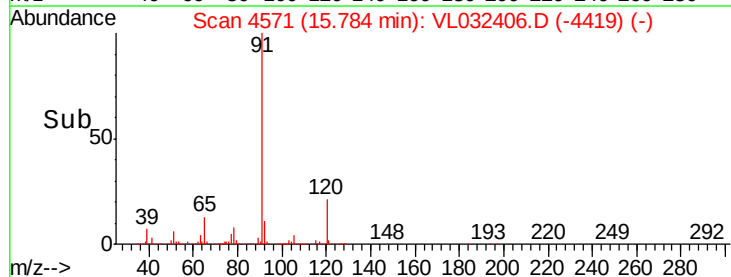
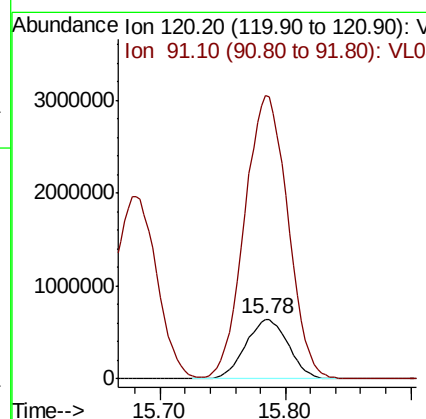
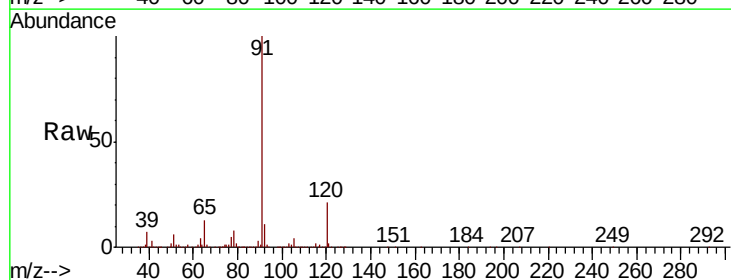
Manual Integrations
 APPROVED

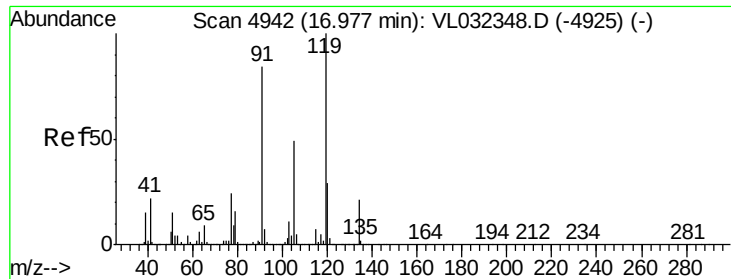
MMDadoda
 8/28/2018 2:53:50 PM



#64
 n-propylbenzene
 Concen: 11.07 ppbv
 RT: 15.78 min Scan# 4571
 Delta R.T. -0.01 min
 Lab File: VL032406.D
 Acq: 20 Aug 2018 14:05

Tgt Ion	Ratio	Lower	Upper
120	100		
91	482.2	382.2	573.2





#65

tert-Butylbenzene

Concen: 10.54 ppbv

RT: 16.97 min Scan# 4940

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:119 Resp: 4781469

Ion Ratio Lower Upper

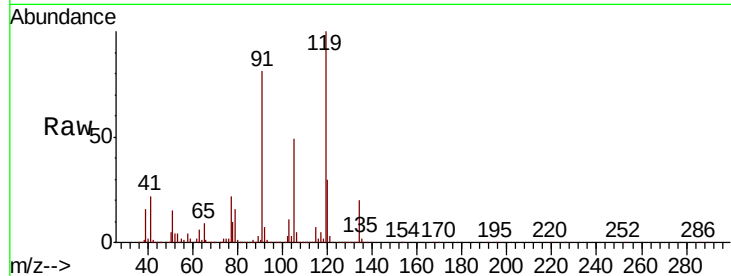
119 100

91 83.9 67.4 101.0

134 19.7 15.8 23.6

Manual Integrations
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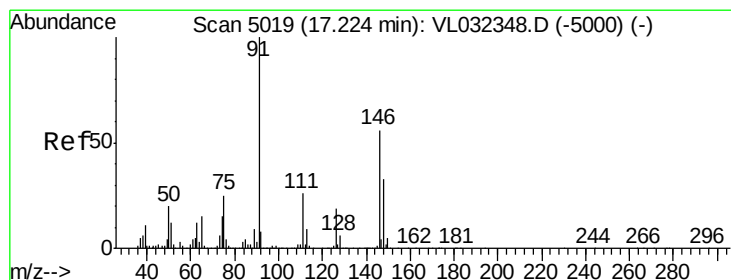
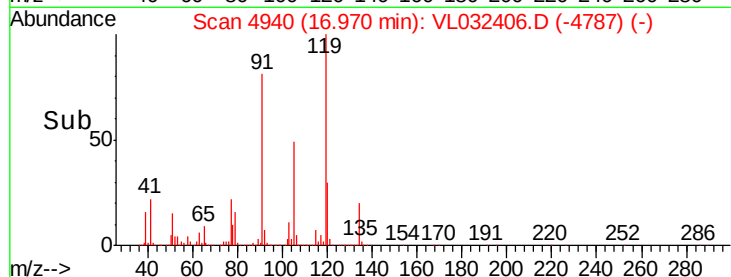
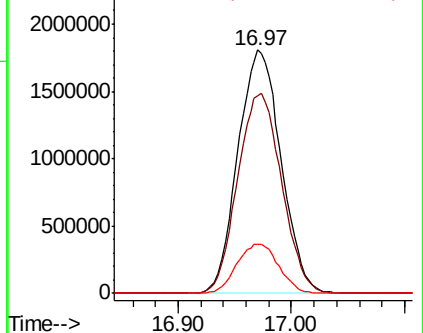
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 12.09 ppbv

RT: 17.22 min Scan# 5018

Delta R.T. -0.00 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

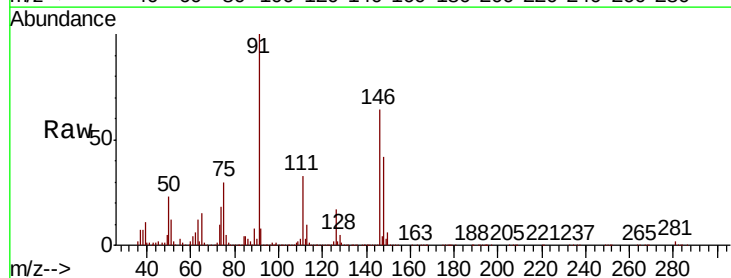
Tgt Ion: 91 Resp: 3245999

Ion Ratio Lower Upper

91 100

126 17.3 14.2 21.4

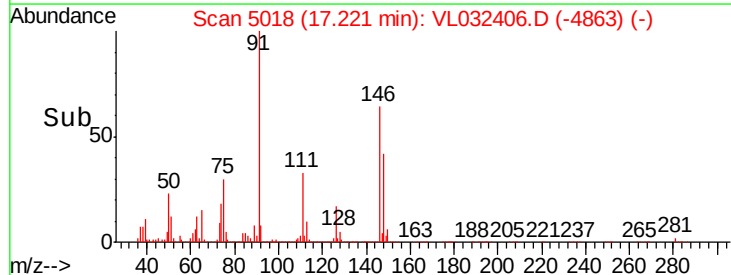
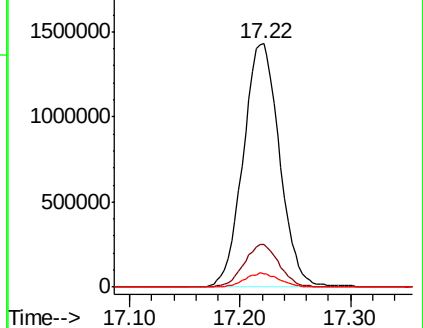
128 5.5 4.5 6.7

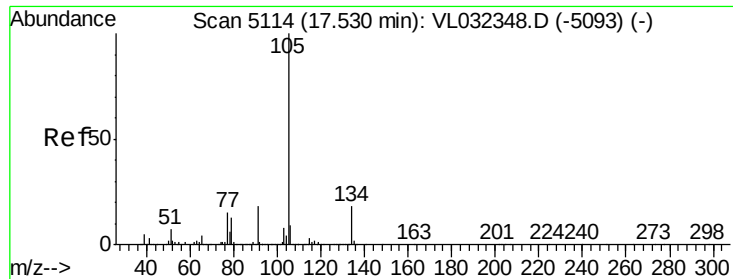


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 10.92 ppbv

RT: 17.52 min Scan# 5111

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 105 Resp: 7364983

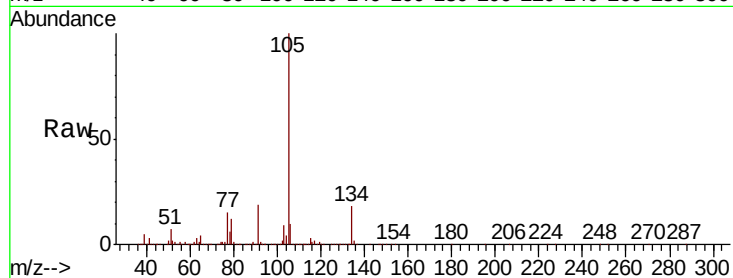
Ion Ratio Lower Upper

105 100

134 17.8 14.4 21.6

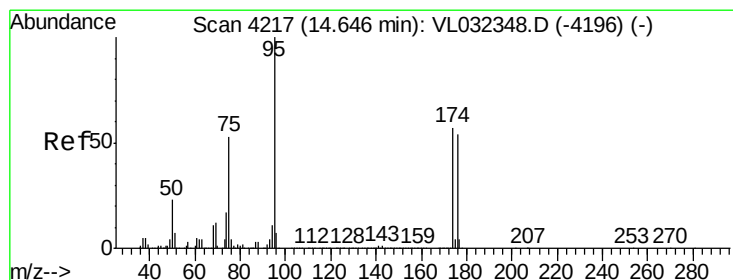
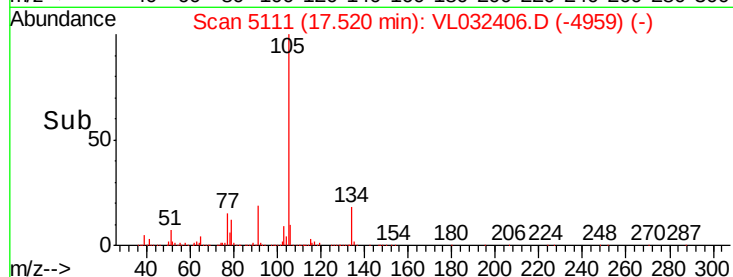
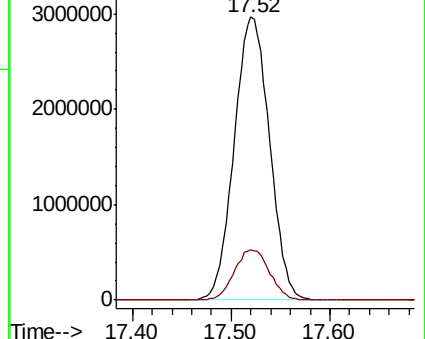
Manual Integrations
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.08 ppbv

RT: 14.64 min Scan# 4216

Delta R.T. -0.00 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

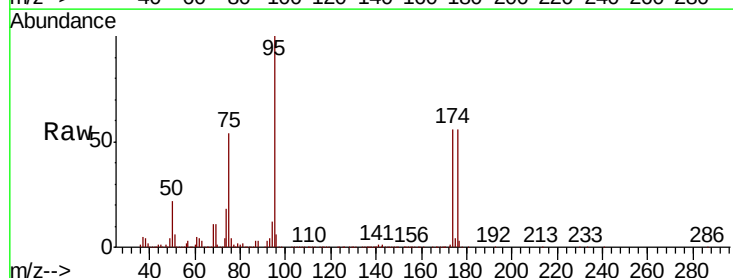
Tgt Ion: 95 Resp: 2854018

Ion Ratio Lower Upper

95 100

174 58.0 46.2 69.4

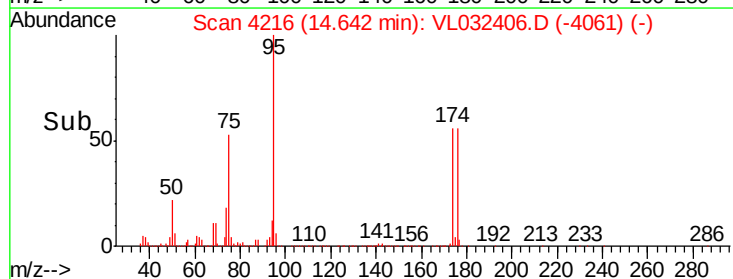
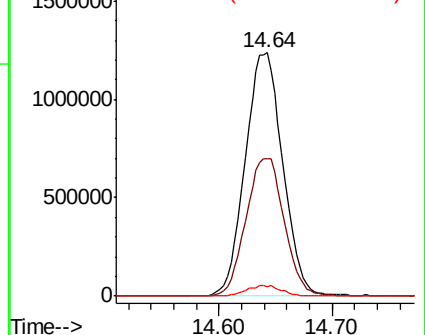
175 4.1 3.4 5.0

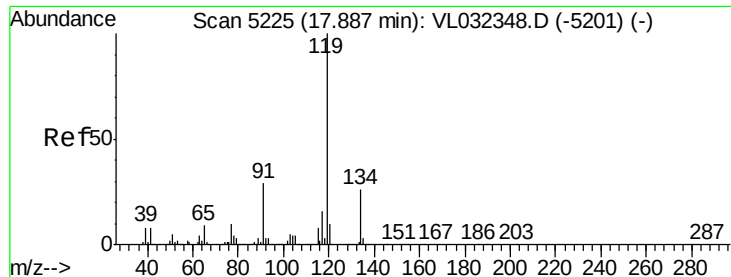


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





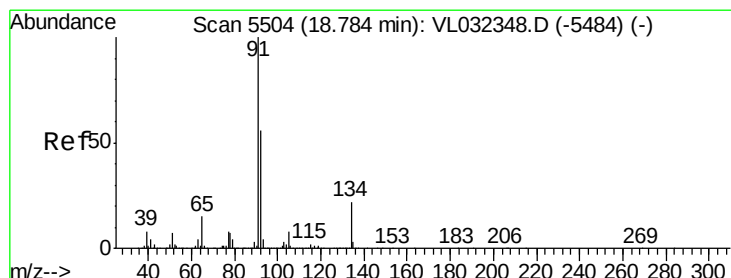
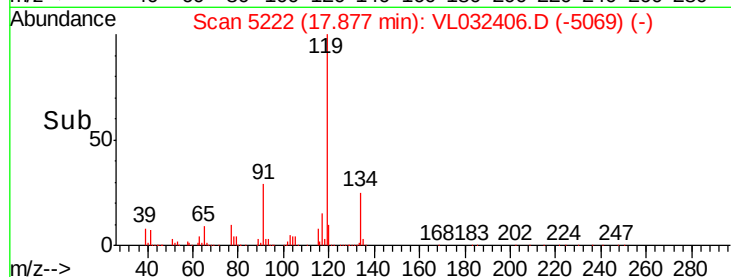
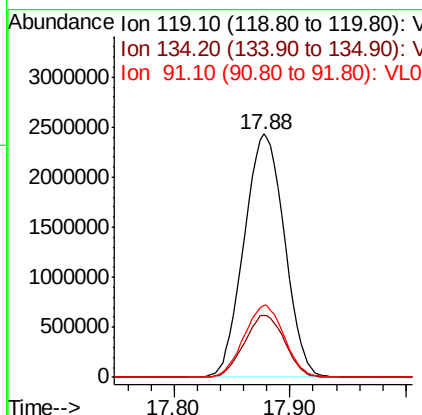
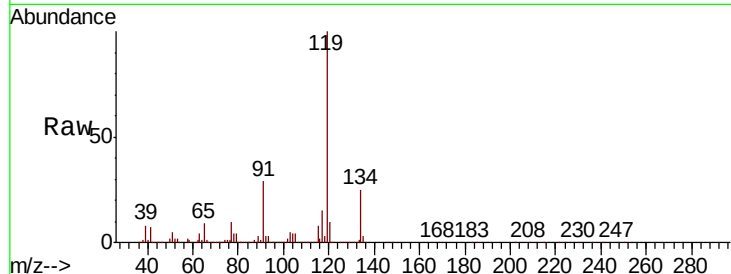
#69
 p-Isopropyltoluene
 Concen: 11.43 ppbv
 RT: 17.88 min Scan# 5225
 Delta R.T. -0.01 min
 Lab File: VL032406.D
 Acq: 20 Aug 2018 14:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.5	20.4	30.6
91	29.4	23.6	35.4

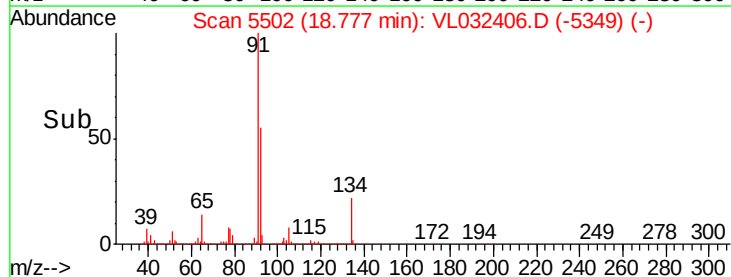
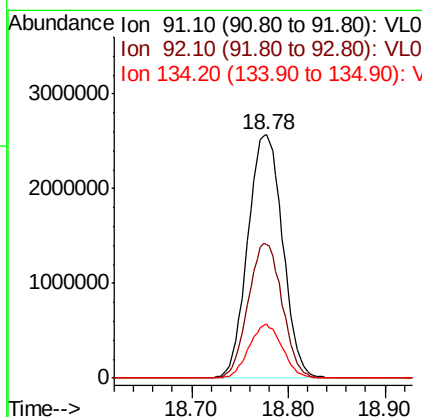
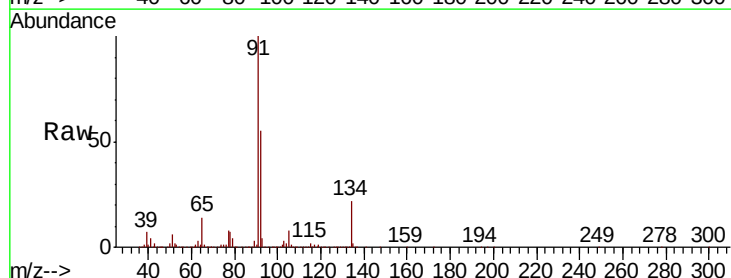
Manual Integrations
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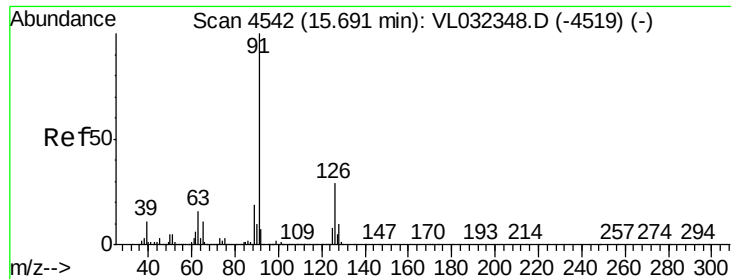
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#70
 n-Butylbenzene
 Concen: 11.34 ppbv
 RT: 18.78 min Scan# 5502
 Delta R.T. -0.01 min
 Lab File: VL032406.D
 Acq: 20 Aug 2018 14:05

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.2	43.9	65.9
134	21.3	17.3	25.9





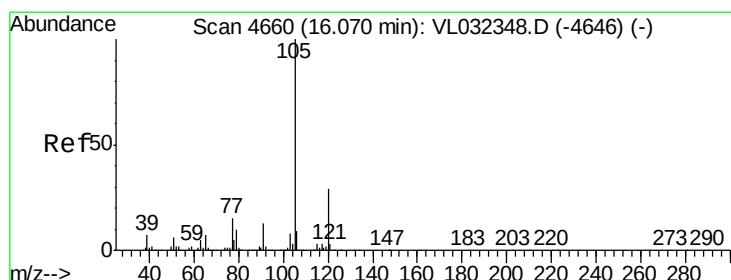
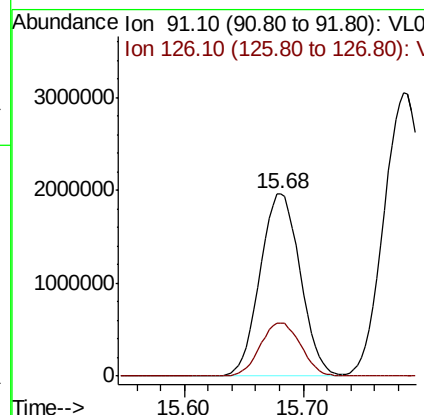
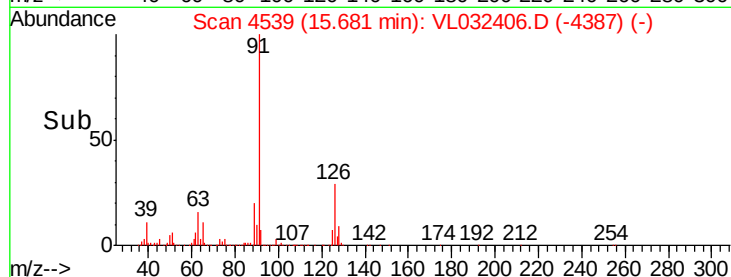
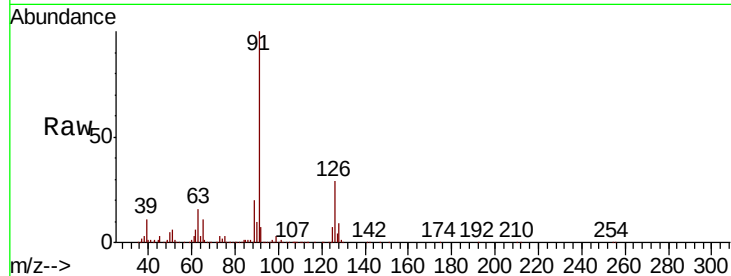
#71
 2-Chlorotoluene
 Concen: 11.21 ppbv
 RT: 15.68 min Scan# 4539
 Delta R.T. -0.01 min
 Lab File: VL032406.D
 Acq: 20 Aug 2018 14:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion: 91 Resp: 4605905
 Ion Ratio Lower Upper
 91 100
 126 29.4 11.8 47.2

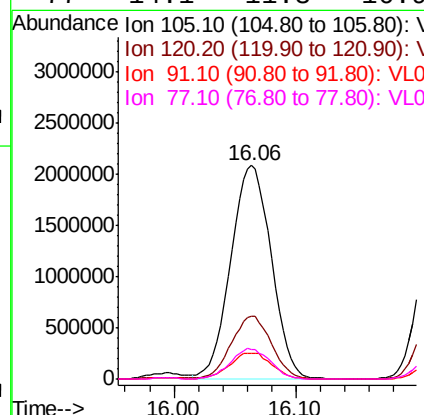
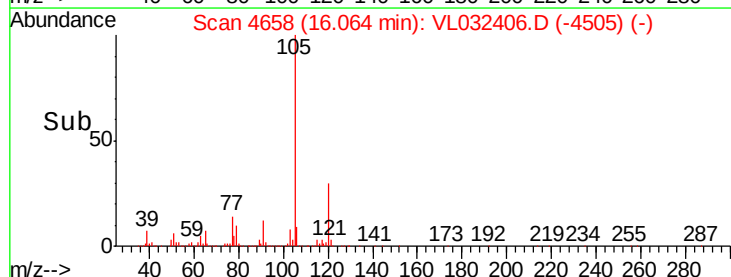
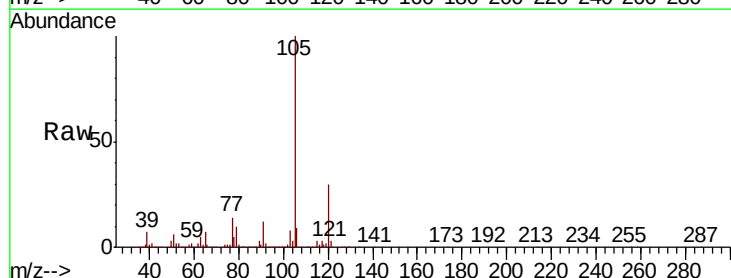
Manual Integrations
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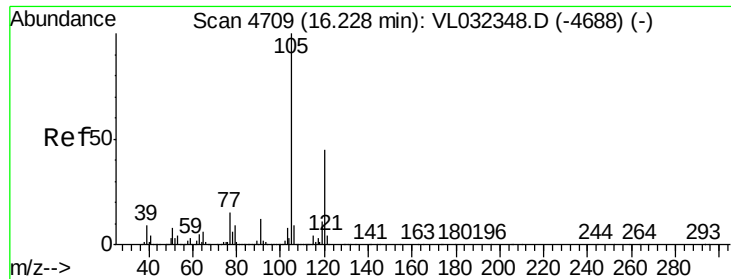
MMDadoda
 8/28/2018 2:53:50 PM



#72
 4-Ethyltoluene
 Concen: 11.54 ppbv
 RT: 16.06 min Scan# 4658
 Delta R.T. -0.01 min
 Lab File: VL032406.D
 Acq: 20 Aug 2018 14:05

Tgt Ion: 105 Resp: 4802544
 Ion Ratio Lower Upper
 105 100
 120 30.0 23.4 35.0
 91 12.6 10.0 15.0
 77 14.1 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 11.44 ppbv

RT: 16.22 min Scan# 4706

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 4579007

Ion Ratio Lower Upper

105 100

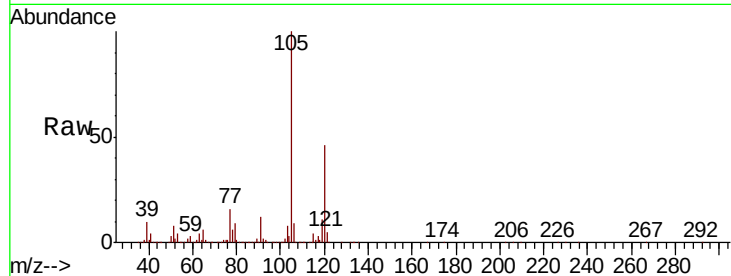
120 45.7 36.3 54.5

Manual Integrations

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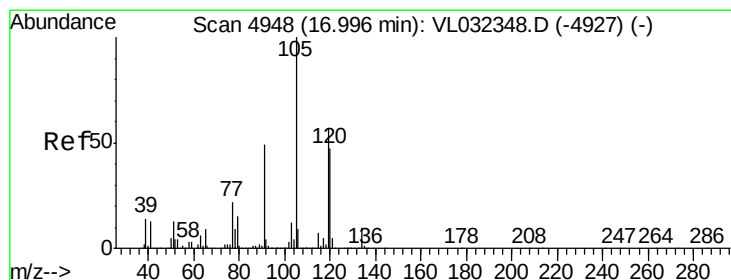
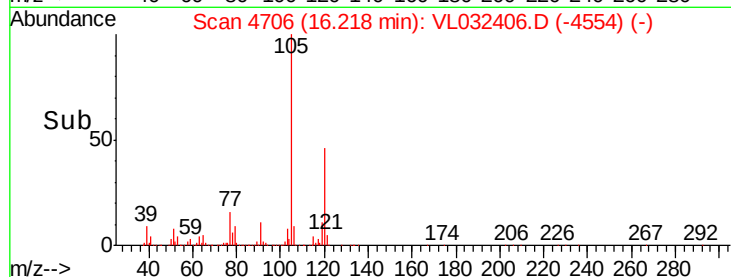
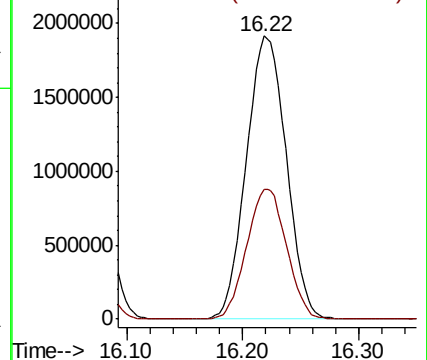
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 10.59 ppbv

RT: 16.99 min Scan# 4946

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Tgt Ion:105 Resp: 4509088

Ion Ratio Lower Upper

105 100

120 48.3 37.6 56.4

91 49.2 39.9 59.9

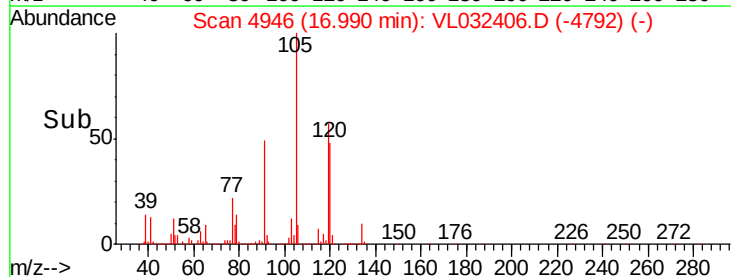
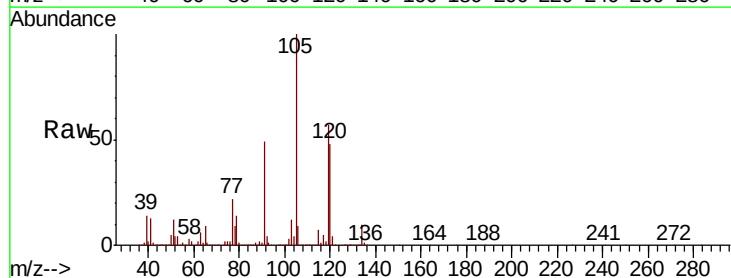
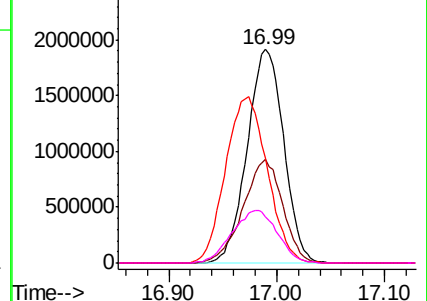
77 21.7 17.8 26.8

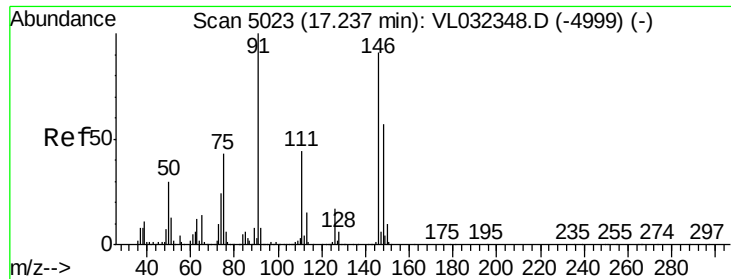
Abundance Ion 105.10 (104.80 to 105.80): V

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: 10.12 ppbv

RT: 17.23 min Scan# 5021

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 2589022

Ion Ratio Lower Upper

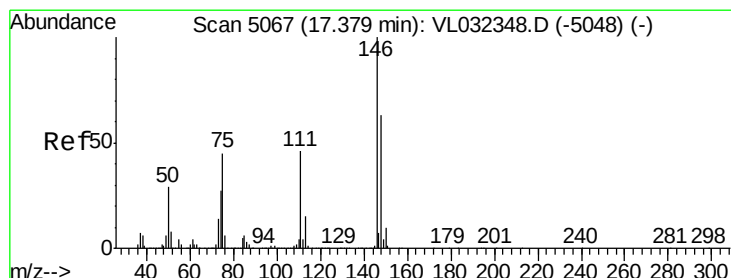
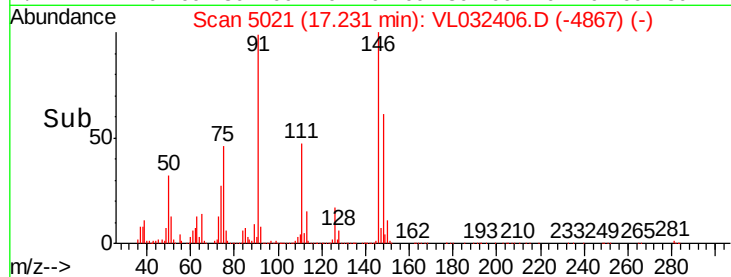
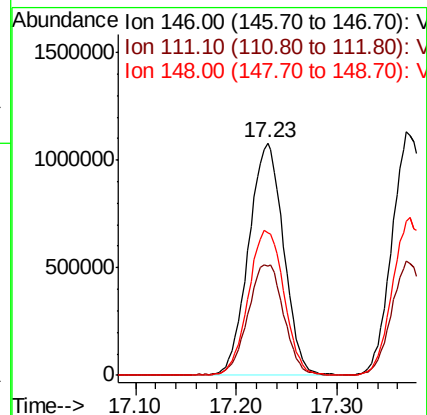
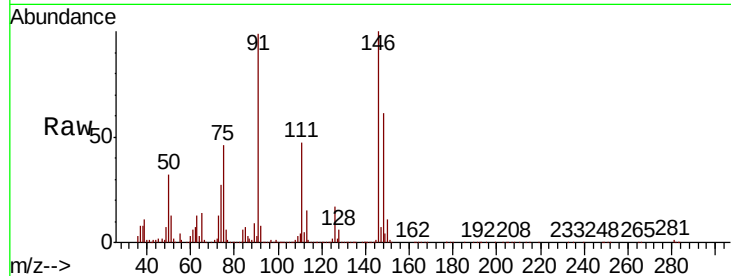
146 100

111 49.1 24.6 73.8

148 63.6 32.0 96.0

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#76

1,4-Dichlorobenzene

Concen: 10.82 ppbv

RT: 17.37 min Scan# 5064

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

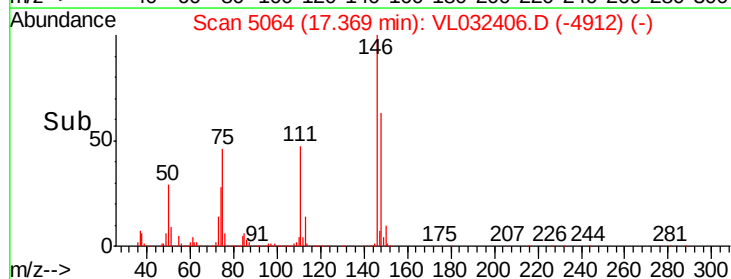
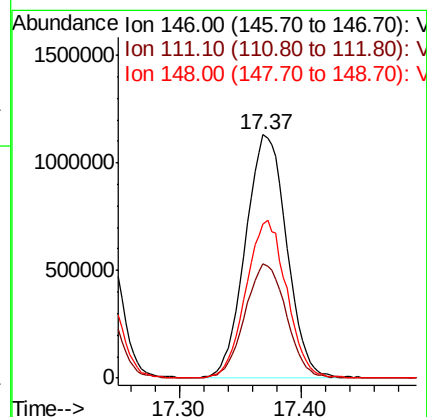
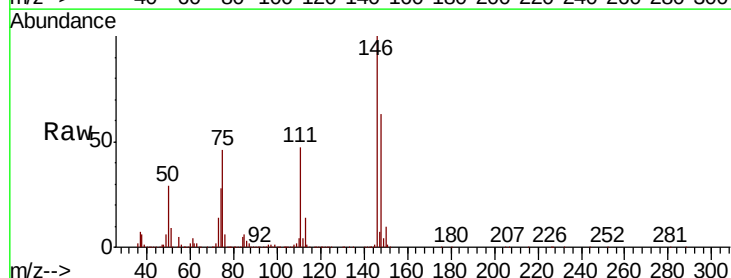
Tgt Ion:146 Resp: 2623228

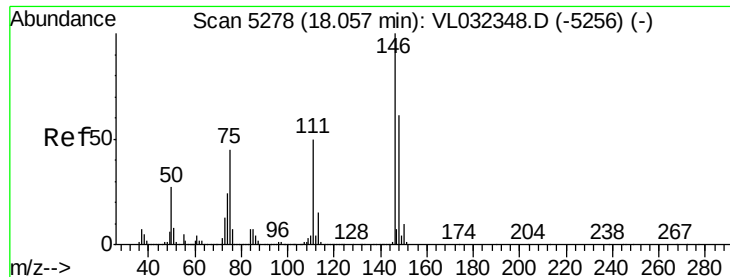
Ion Ratio Lower Upper

146 100

111 47.4 23.8 71.4

148 64.2 32.2 96.6





#77

1,2-Dichlorobenzene

Concen: 10.66 ppbv

RT: 18.05 min Scan# 5276

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 2607072

Ion Ratio Lower Upper

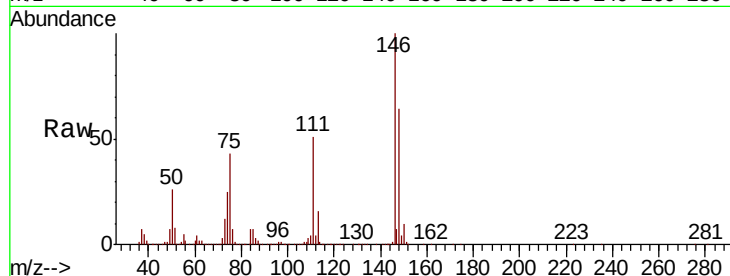
146 100

111 50.2 25.2 75.6

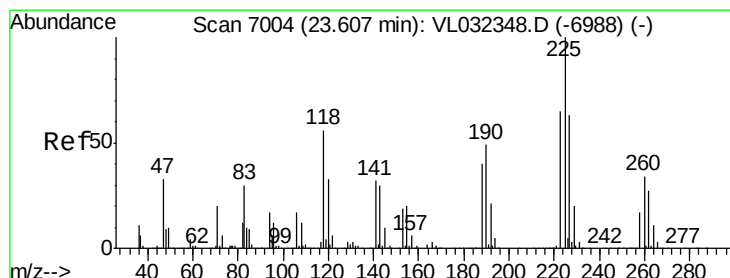
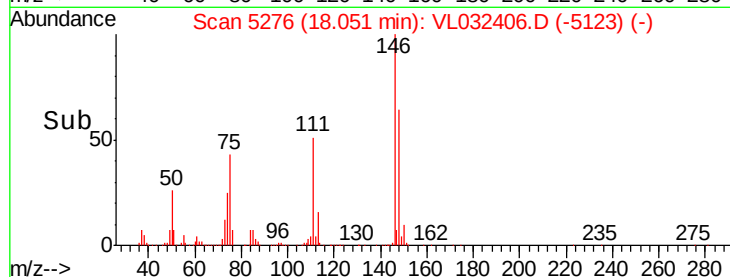
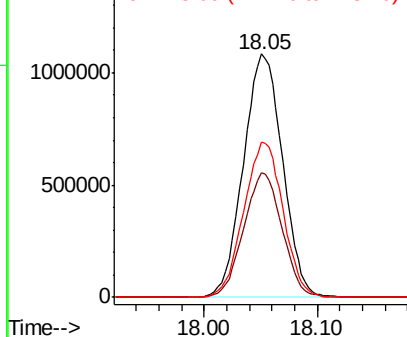
148 64.2 31.8 95.4

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



#78

Hexachloro-1,3-Butadiene

Concen: 9.56 ppbv

RT: 23.60 min Scan# 7003

Delta R.T. -0.00 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

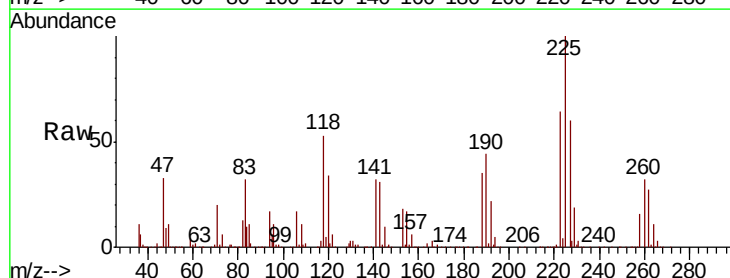
Tgt Ion:225 Resp: 784132

Ion Ratio Lower Upper

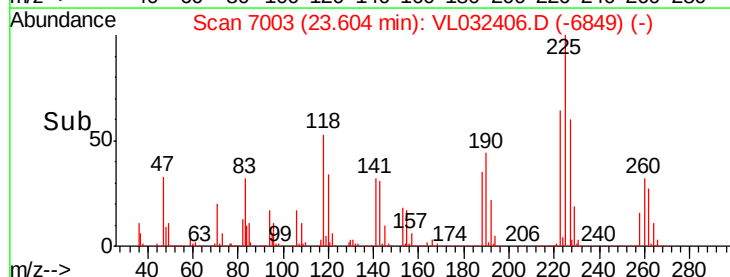
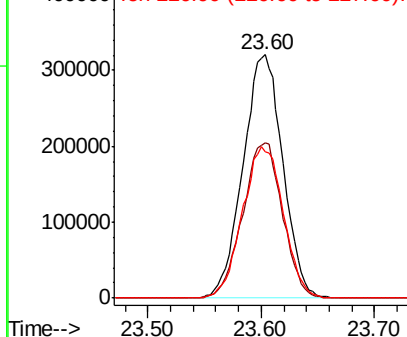
225 100

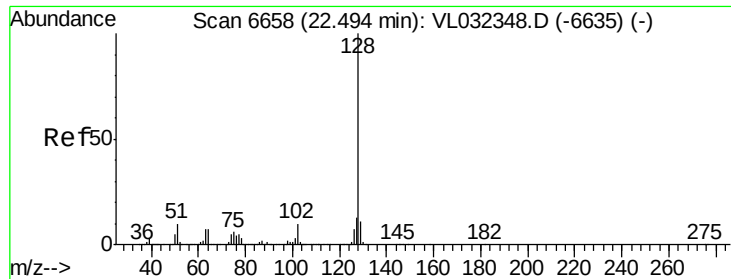
223 64.0 50.6 76.0

227 64.0 51.0 76.6



Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 13.75 ppbv

RT: 22.49 min Scan# 6656

Delta R.T. -0.01 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:128 Resp: 4270226

Ion Ratio Lower Upper

128 100

127 12.7 10.3 15.5

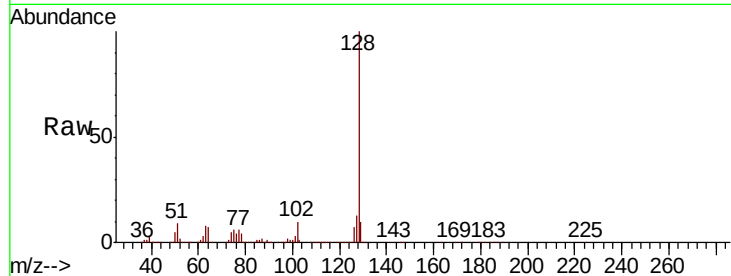
129 10.2 8.6 13.0

Manual Integrations

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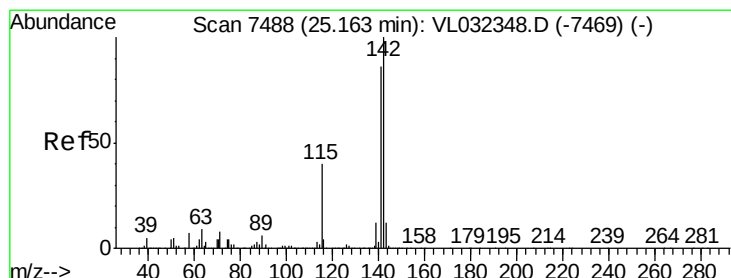
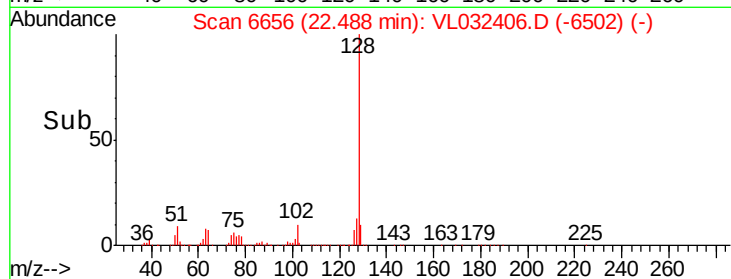
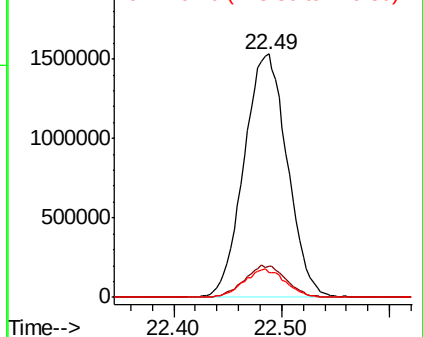


Abundance

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: 20.01 ppbv

RT: 25.16 min Scan# 7488

Delta R.T. -0.00 min

Lab File: VL032406.D

Acq: 20 Aug 2018 14:05

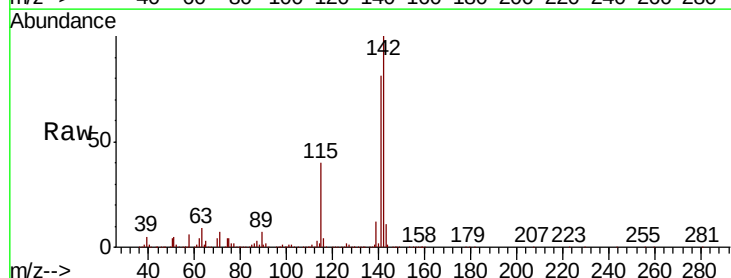
Tgt Ion:142 Resp: 1700044

Ion Ratio Lower Upper

142 100

141 83.4 66.7 100.1

115 39.7 31.0 46.6

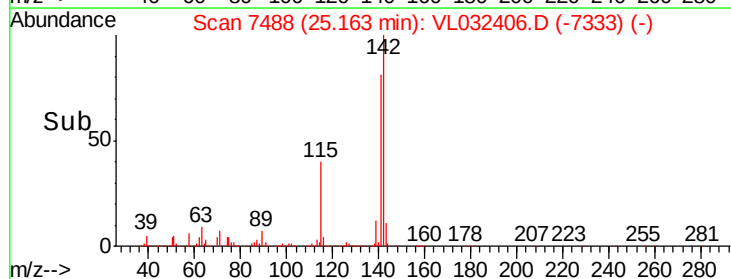
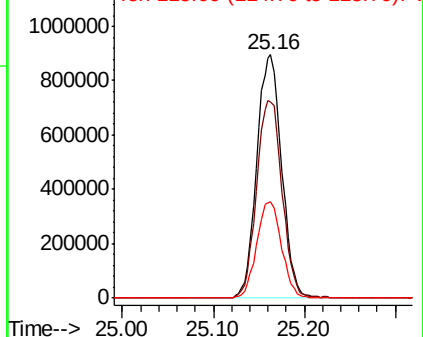


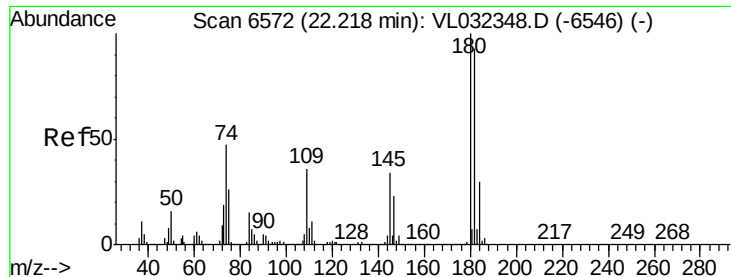
Abundance

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: 12.46 ppbv
 RT: 22.21 min Scan# 6570
 Delta R.T. -0.01 min
 Lab File: VL032406.D
 Acq: 20 Aug 2018 14:05

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	76.1	114.1
184	30.5	24.2	36.2

Manual Integrations
 APPROVED

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 8/28/2018 2:53:50 PM

