

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091018\
 Data File : VL032505.D
 Acq On : 11 Sep 2018 13:00
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 9/12/2018 3:59:56 PM

Quant Time: Sep 12 06:56:06 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31

QLast Update : Fri Aug 31 21:33:46 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.80	49	1384112	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.34	114	3302185	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.29	117	3439172m	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.62	95	2582984	10.12	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.20%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.10	85	1195833m	6.75	ppbv	
3) Chlorodifluoromethane	3.04	51	1147987	9.16	ppbv	99
4) Chloromethane	3.20	50	681718	8.99	ppbv	100
5) Vinyl Chloride	3.32	62	647248	8.64	ppbv	97
6) Bromomethane	3.54	94	375134	9.54	ppbv	96
7) Chloroethane	3.63	64	235655	9.09	ppbv	94
8) Dichlorotetrafluoroethane	3.25	85	1357353	8.64	ppbv	97
9) Propene	3.06	41	567237	11.22	ppbv	100
10) Heptane	8.29	43	2009474	11.08	ppbv	99
11) Trichlorofluoromethane	4.04	101	1384349	8.67	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.59	101	1193608	11.03	ppbv	99
13) Ethanol	3.68	45	134640	8.55	ppbv	96
14) Bromoethene	3.82	108	457259	9.98	ppbv	100
15) Acetone	3.93	43	1158033	9.29	ppbv	100
16) 1,3-Butadiene	3.39	39	538539	9.18	ppbv	94
17) tert-Butyl alcohol	4.39	59	181359	9.46	ppbv #	100
18) 1,1-Dichloroethene	4.39	96	578485	11.70	ppbv	96
19) Isopropyl Alcohol	4.05	45	861992	10.54	ppbv #	98
20) Methylene Chloride	4.44	84	516593	10.87	ppbv	99
21) Allyl Chloride	4.51	41	1021082	12.33	ppbv	100
22) trans-1,2-Dichloroethene	5.00	96	556250	10.37	ppbv	92
23) Vinyl Acetate	5.19	43	2443533	11.83	ppbv	99
24) 1,1-Dichloroethane	5.13	63	1733805	10.18	ppbv	100
25) Ethyl Acetate	5.81	43	2921662	9.93	ppbv	99
26) Hexane	5.82	57	1334749	10.13	ppbv	98
27) Carbon Disulfide	4.65	76	1450595	11.92	ppbv	100
28) Methyl tert-Butyl Ether	5.15	73	1915694	11.84	ppbv	99
29) Chloroform	5.89	83	1939530	9.65	ppbv	100
30) Cyclohexane	7.29	84	1209127	12.53	ppbv	99
31) cis-1,2-Dichloroethene	5.68	61	1334509	11.18	ppbv	98
32) 1,1,1-Trichloroethane	6.66	97	1884813	10.06	ppbv	98
34) 2-Butanone	5.36	43	2012908	9.18	ppbv	100
35) Carbon Tetrachloride	7.18	117	2040814	9.20	ppbv	98
36) Benzene	7.05	78	2780679	9.90	ppbv	99
37) 1,2-Dichloroethane	6.45	62	1541289	8.95	ppbv	100
38) Trichloroethene	8.00	130	1007300	9.44	ppbv	97
39) 1,2-Dichloropropane	7.78	63	1209499	10.06	ppbv	98
40) 1,4-Dioxane	8.00	88	384484	10.66	ppbv	86
41) Tetrahydrofuran	6.19	42	1196013	10.02	ppbv	99
42) Bromodichloromethane	7.96	83	2271170	9.56	ppbv	99
43) Methyl Methacrylate	8.18	69	1223881	10.27	ppbv	98

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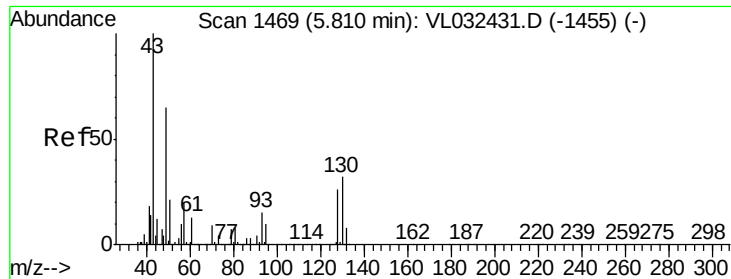
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31

QLast Update : Fri Aug 31 21:33:46 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.04	57	5210162	9.59	ppbv	99
45) t-1,3-Dichloropropene	9.46	75	1650774	12.94	ppbv	99
46) cis-1,3-Dichloropropene	8.88	75	1737053	10.66	ppbv	100
47) 1,1,2-Trichloroethane	9.66	97	1273969	9.97	ppbv	98
48) Dibromochloromethane	10.50	129	2047261	11.56	ppbv	99
49) Bromoform	13.25	173	1526845	9.92	ppbv	100
50) 4-Methyl-2-Pentanone	8.91	43	2997438	9.07	ppbv	100
51) 2-Hexanone	10.32	43	2831354	13.30	ppbv	100
52) Tetrachloroethene	11.42	164	897602	10.30	ppbv	98
53) Toluene	9.99	91	3599838	12.26	ppbv	100
54) 1,2-Dibromoethane	10.81	107	1884262	10.98	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.33	131	1364385	8.80	ppbv #	60
57) Chlorobenzene	12.35	112	2436138	8.86	ppbv	98
58) Ethyl Benzene	12.91	91	4455680	10.83	ppbv	98
59) m/p-Xylene	13.20	91	7160728m	19.52	ppbv	
60) o-Xylene	13.90	91	3538271	9.82	ppbv	100
61) Styrene	13.73	104	2631980	11.28	ppbv	99
62) Isopropylbenzene	14.88	105	4984919	9.84	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.88	83	2623481	8.14	ppbv	100
64) n-propylbenzene	15.77	120	1271394	9.60	ppbv	97
65) tert-Butylbenzene	16.96	119	4074144	9.33	ppbv	99
66) Benzyl Chloride	17.20	91	2444456	10.05	ppbv	100
67) sec-Butylbenzene	17.51	105	6147172	9.36	ppbv	99
69) p-Isopropyltoluene	17.86	119	4827999	9.49	ppbv	100
70) n-Butylbenzene	18.76	91	5250053	9.10	ppbv	99
71) 2-Chlorotoluene	15.67	91	3877279	10.02	ppbv	99
72) 4-Ethyltoluene	16.05	105	4076002	10.36	ppbv	99
73) 1,3,5-Trimethylbenzene	16.21	105	3849955	9.77	ppbv	97
74) 1,2,4-Trimethylbenzene	16.97	105	3804617	8.83	ppbv	94
75) 1,3-Dichlorobenzene	17.22	146	2089842	8.17	ppbv	99
76) 1,4-Dichlorobenzene	17.35	146	2076489	8.75	ppbv	98
77) 1,2-Dichlorobenzene	18.04	146	2058028	8.34	ppbv	99
78) Hexachloro-1,3-Butadiene	23.59	225	1191567	12.92	ppbv	100
79) Naphthalene	22.46	128	3210867	9.16	ppbv	99
80) Naphthalene, 2-methyl-	25.15	142	1031510	11.06	ppbv	99
81) 1,2,4-Trichlorobenzene	22.19	180	1507851	8.54	ppbv	99

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.80 min Scan# 891

Delta R.T. -0.01 min

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VSTDCCC010EC

Tot Ion: 49 Resp: 1384112

Ion Ratio Lower Upper

49 100

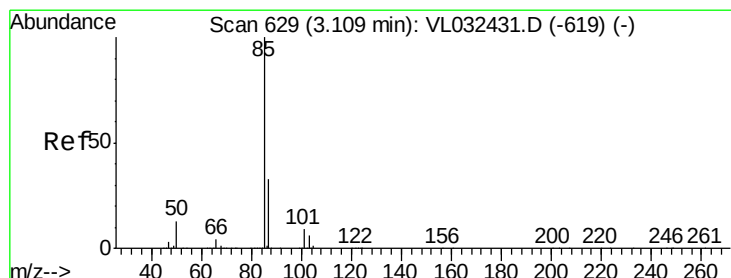
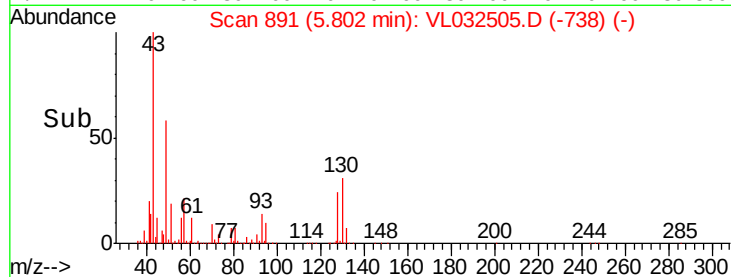
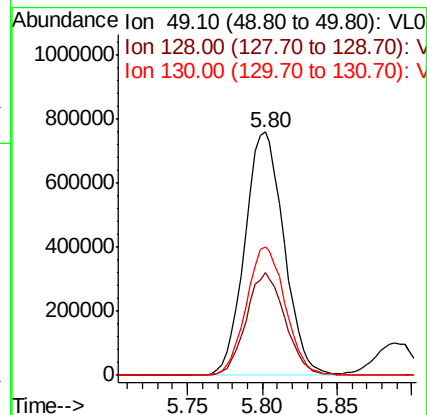
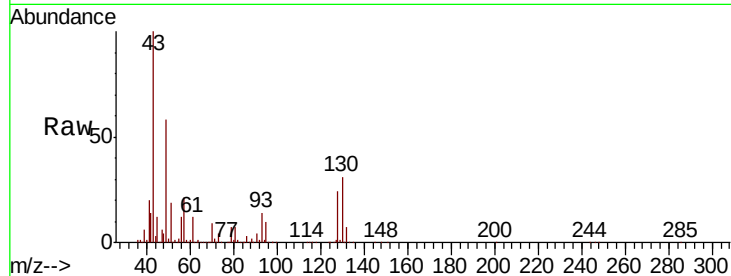
128 41.8 20.7 62.1

130 52.9 26.6 79.7

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#2

Dichlorodifluoromethane

Concen: 6.75 ppbv m

RT: 3.10 min Scan# 51

Delta R.T. -0.01 min

Lab File: VL032505.D

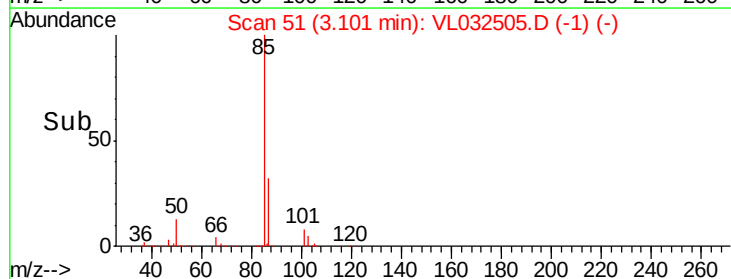
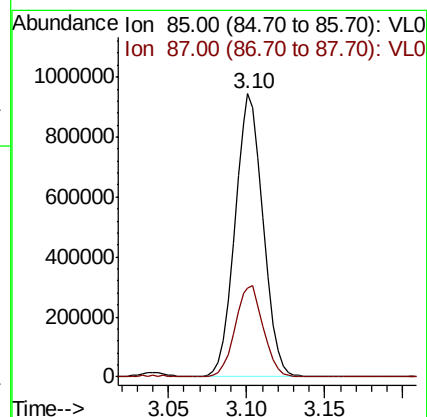
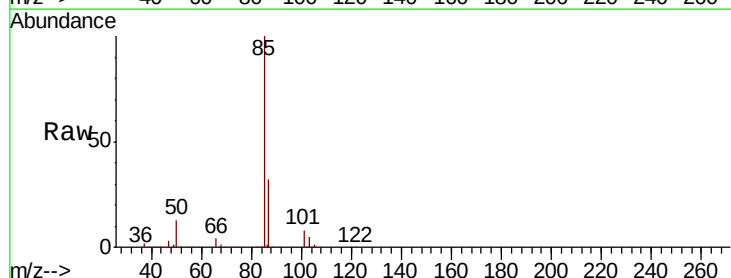
Acq: 11 Sep 2018 13:00

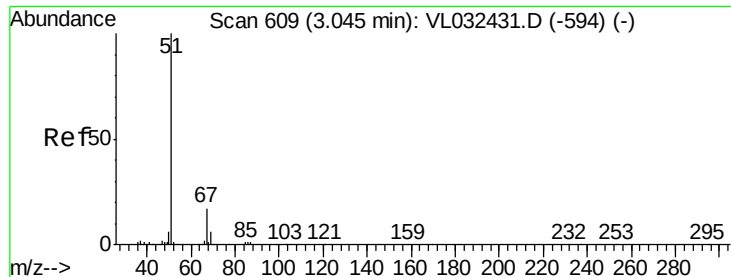
Tgt Ion: 85 Resp: 1195833

Ion Ratio Lower Upper

85 100

87 31.6 26.2 39.4





#3

Chlorodifluoromethane

Concen: 9.16 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.01 min

Lab File: VL032505.D

Acq: 11 Sep 2018 13:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 1147987

Ion Ratio Lower Upper

51 100

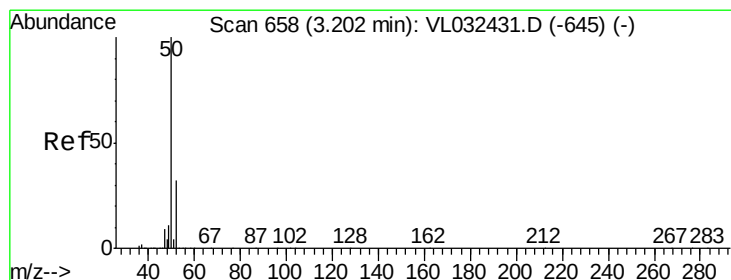
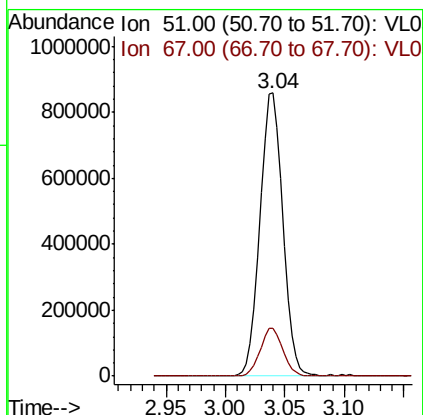
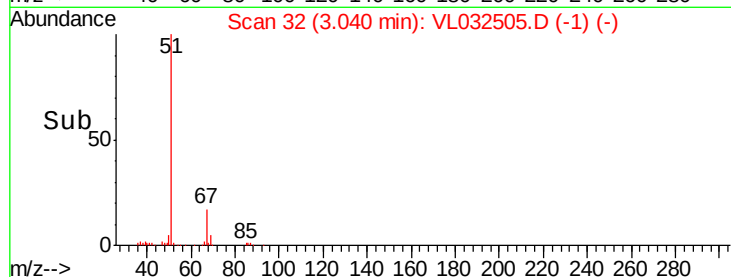
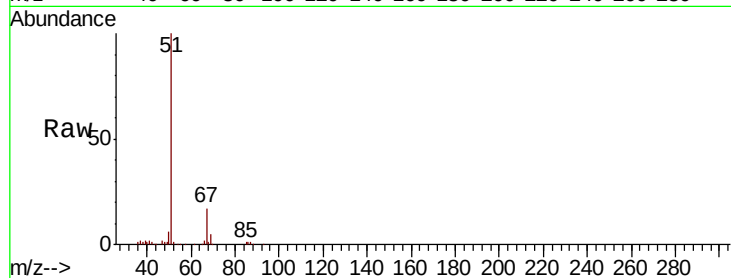
67 16.8 13.8 20.8

Manual Integrations

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#4

Chloromethane

Concen: 8.99 ppbv

RT: 3.20 min Scan# 81

Delta R.T. -0.01 min

Lab File: VL032505.D

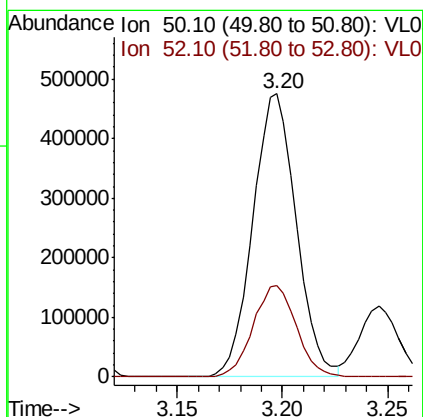
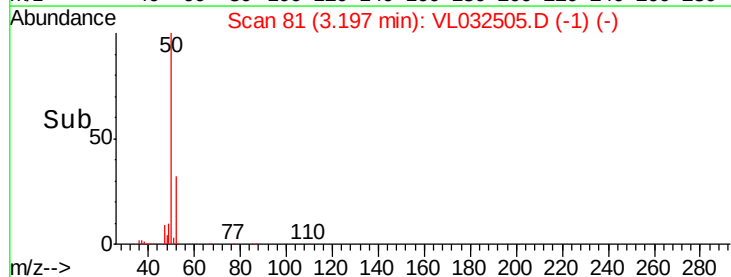
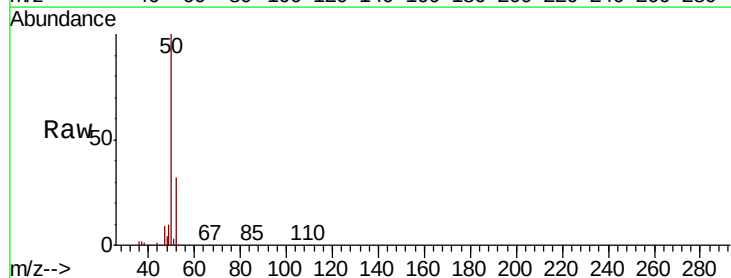
Acq: 11 Sep 2018 13:00

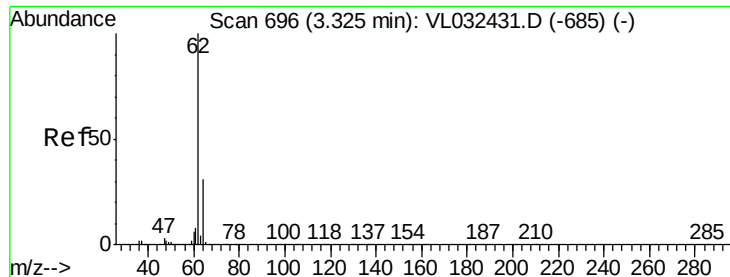
Tgt Ion: 50 Resp: 681718

Ion Ratio Lower Upper

50 100

52 32.2 25.6 38.4





#5

Vinyl Chloride

Concen: 8.64 ppbv

RT: 3.32 min Scan# 118

Delta R.T. -0.01 min

Lab File: VL032505.D

Acq: 11 Sep 2018 13:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 647248

Ion Ratio Lower Upper

62 100

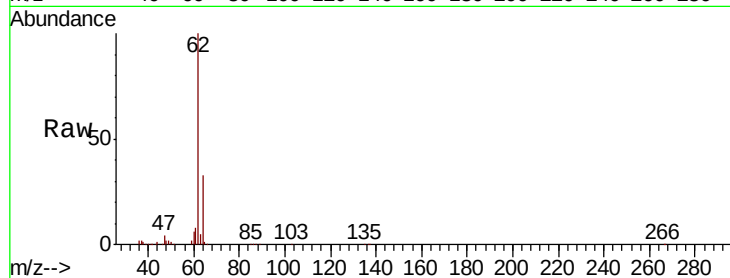
64 33.2 25.0 37.6

Manual Integrations

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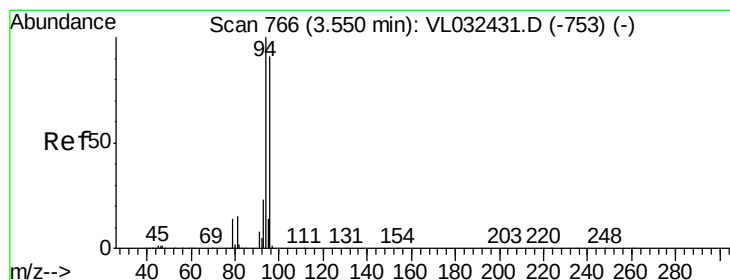
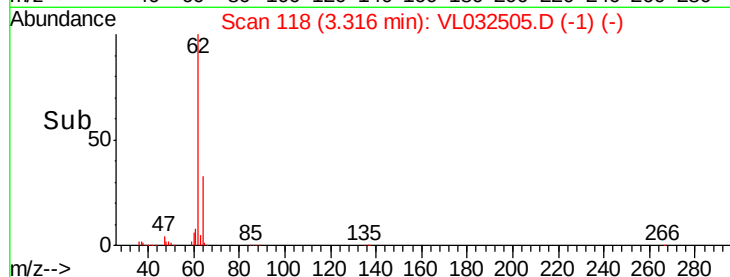
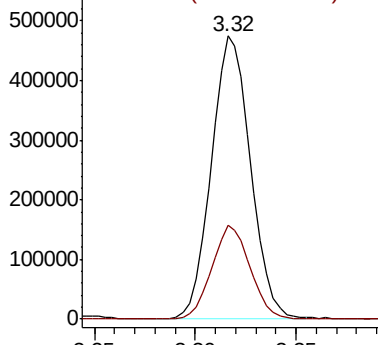
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 9.54 ppbv

RT: 3.54 min Scan# 188

Delta R.T. -0.01 min

Lab File: VL032505.D

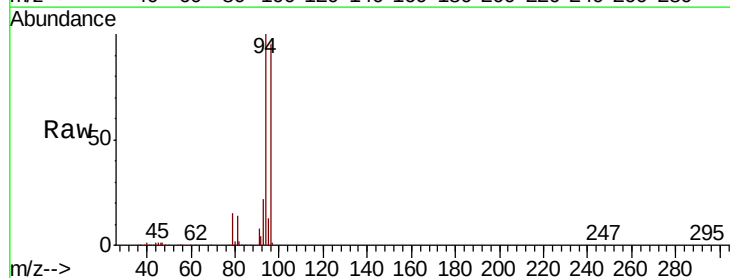
Acq: 11 Sep 2018 13:00

Tgt Ion: 94 Resp: 375134

Ion Ratio Lower Upper

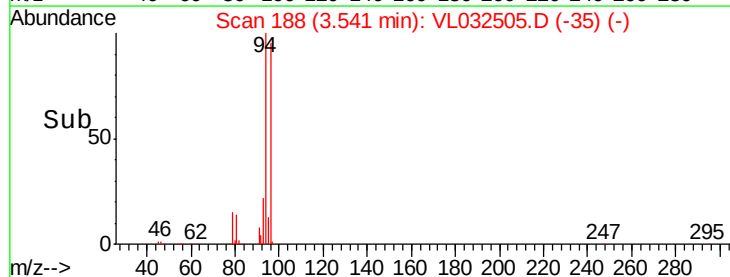
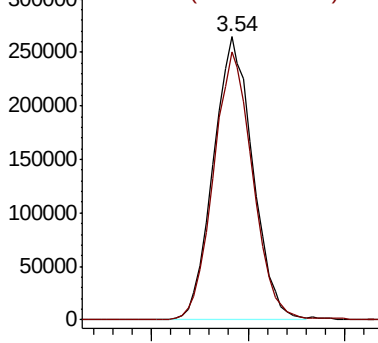
94 100

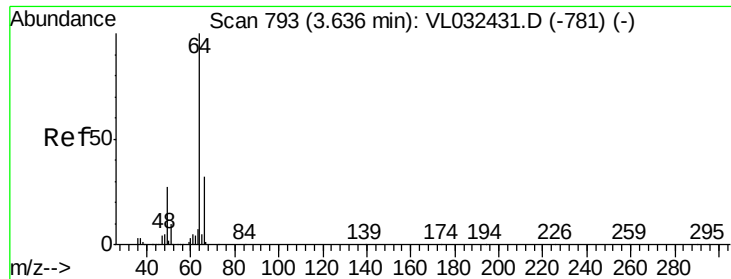
96 94.9 72.8 109.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 9.09 ppbv

RT: 3.63 min Scan# 215

Delta R.T. -0.01 min

Lab File: VL032505.D

Acq: 11 Sep 2018 13:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 235655

Ion Ratio Lower Upper

64 100

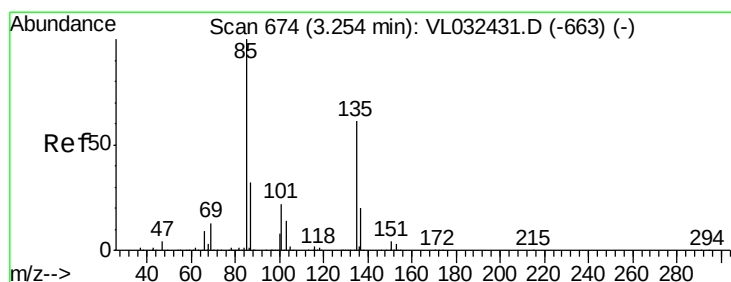
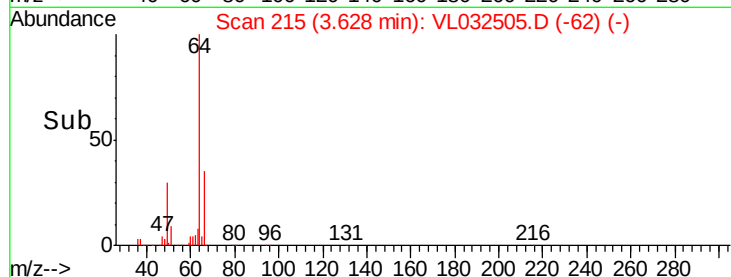
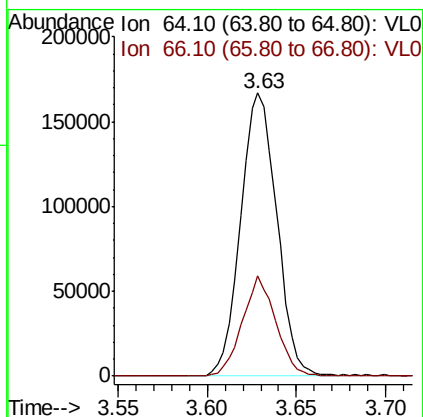
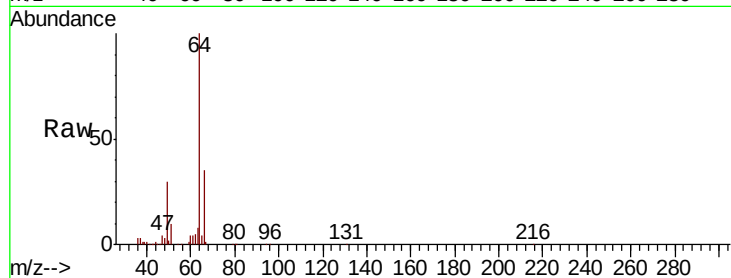
66 35.4 25.8 38.6

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 8.64 ppbv

RT: 3.25 min Scan# 96

Delta R.T. -0.01 min

Lab File: VL032505.D

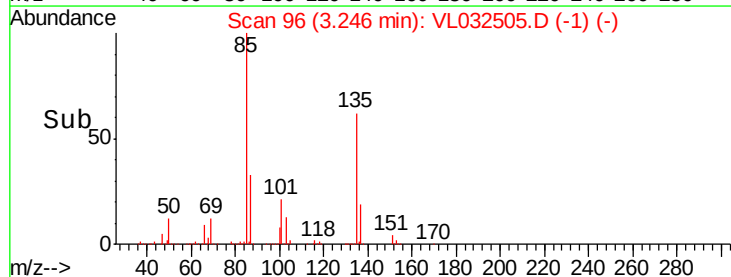
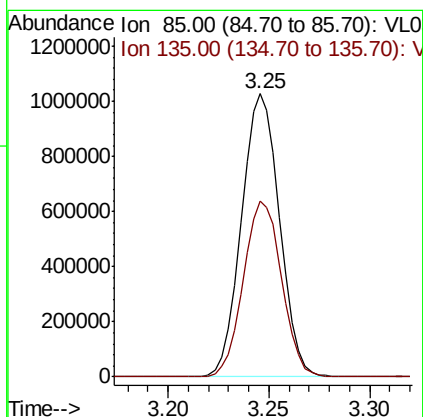
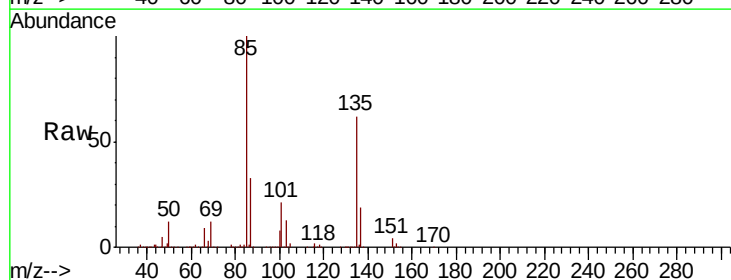
Acq: 11 Sep 2018 13:00

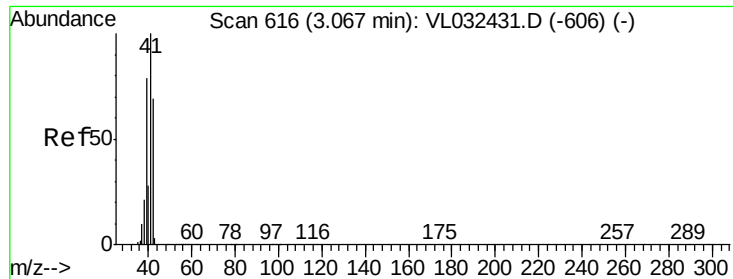
Tgt Ion: 85 Resp: 1357353

Ion Ratio Lower Upper

85 100

135 62.8 48.6 72.8





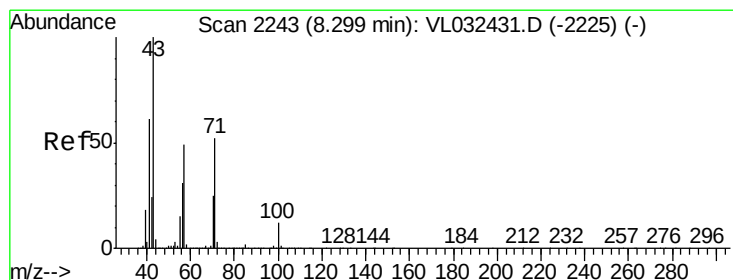
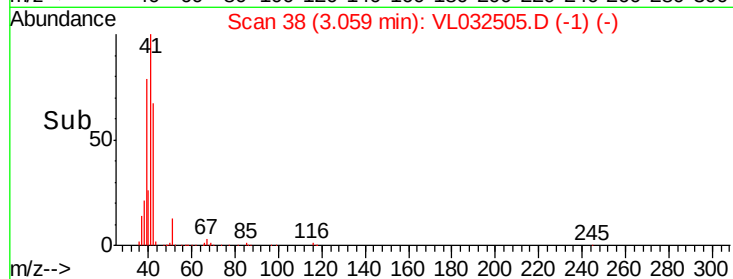
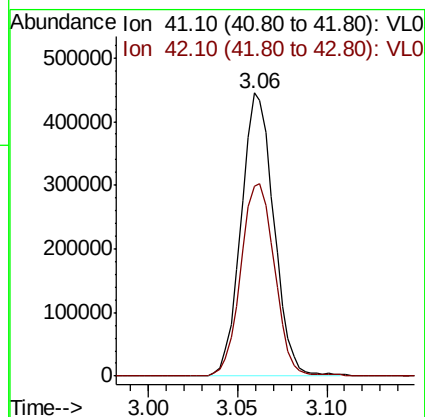
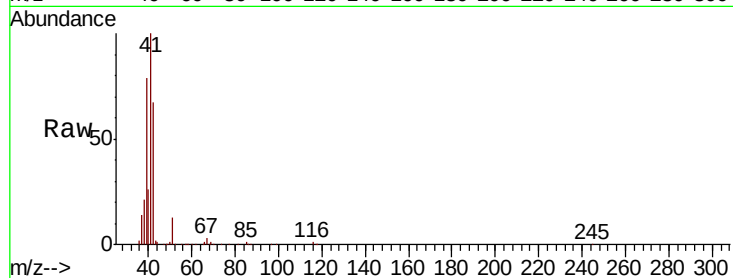
#9
 Propene
 Concen: 11.22 ppbv
 RT: 3.06 min Scan# 38
 Delta R.T. -0.01 min
 Lab File: VL032505.D
 Acq: 11 Sep 2018 13:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 41 Resp: 567237
 Ion Ratio Lower Upper
 41 100
 42 70.7 56.6 84.8

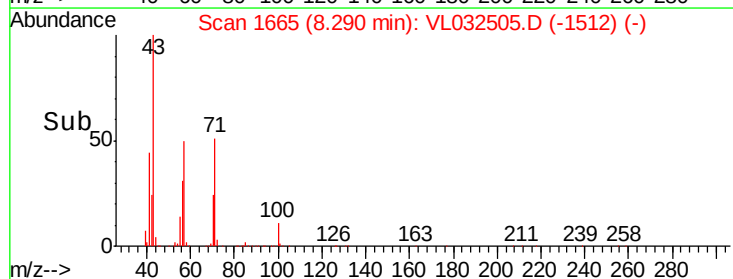
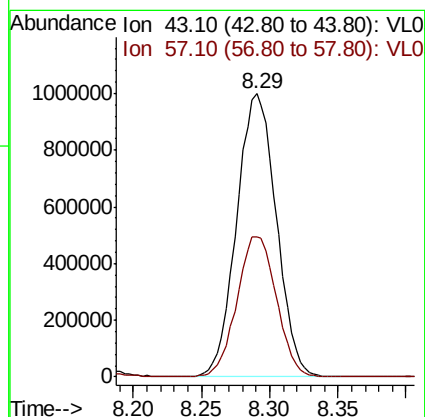
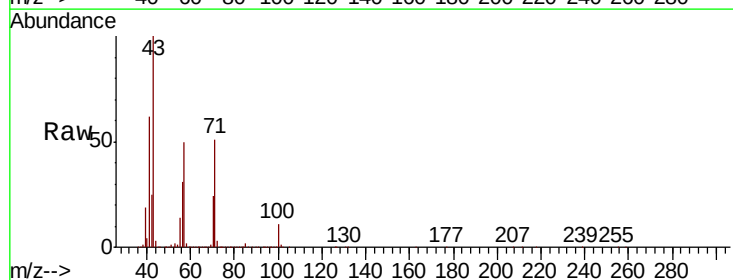
Manual Integrations
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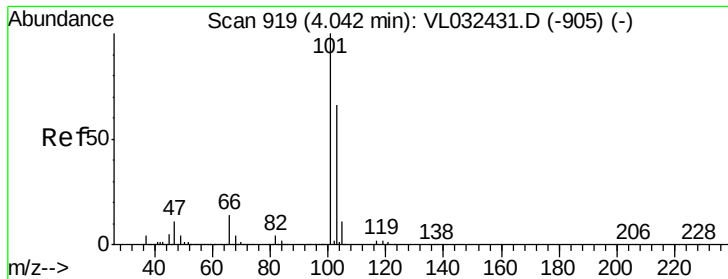
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#10
 Heptane
 Concen: 11.08 ppbv
 RT: 8.29 min Scan# 1665
 Delta R.T. -0.01 min
 Lab File: VL032505.D
 Acq: 11 Sep 2018 13:00

Tgt Ion: 43 Resp: 2009474
 Ion Ratio Lower Upper
 43 100
 57 49.9 39.6 59.4





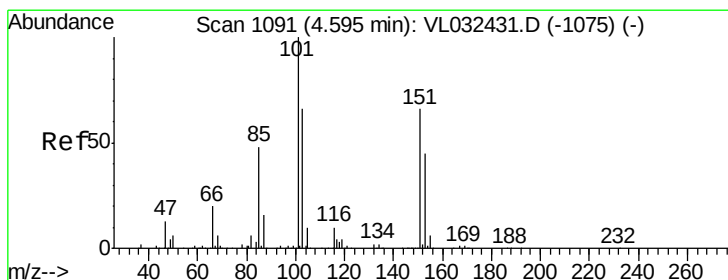
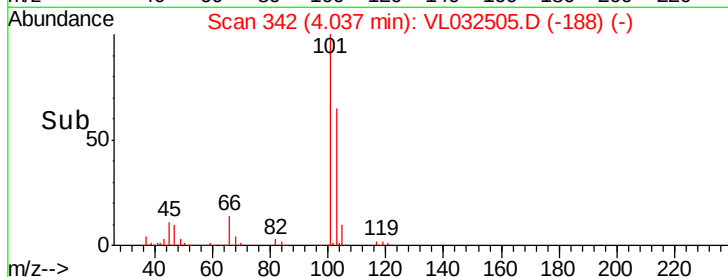
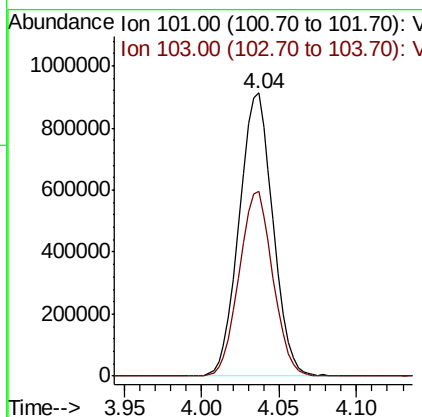
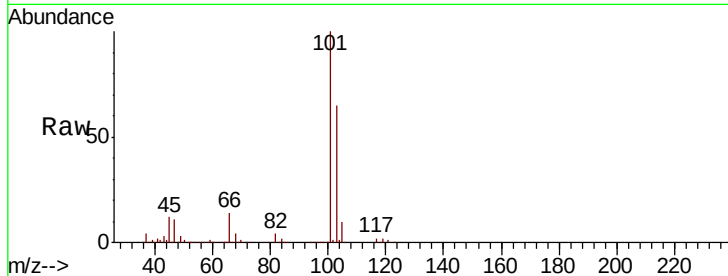
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 Trichlorofluoromethane
 Concen: 8.67 ppbv
 RT: 4.04 min Scan# 342
 Delta R.T. -0.01 min
 Lab File: VL032505.D
 Acq: 11 Sep 2018 13:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1384349
 Ion Ratio Lower Upper
 101 100
 103 65.4 52.8 79.2

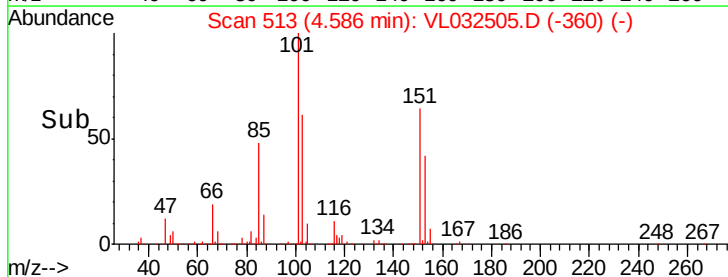
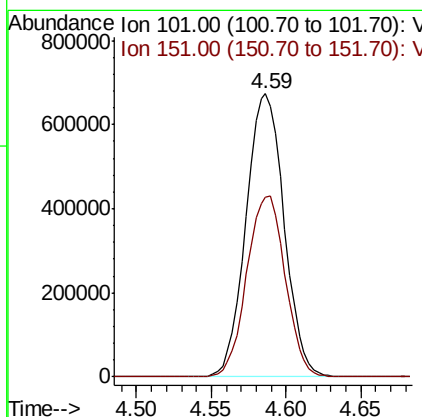
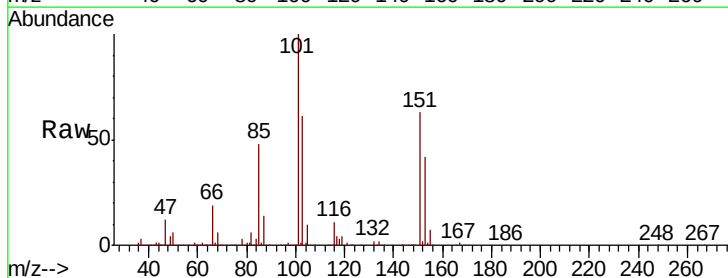
Manual Integrations
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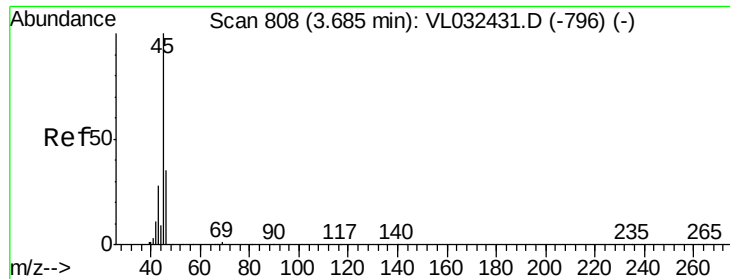
MMDadoda
 9/12/2018 3:59:56 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 11.03 ppbv
 RT: 4.59 min Scan# 513
 Delta R.T. -0.01 min
 Lab File: VL032505.D
 Acq: 11 Sep 2018 13:00

Tgt Ion:101 Resp: 1193608
 Ion Ratio Lower Upper
 101 100
 151 64.7 52.6 78.8





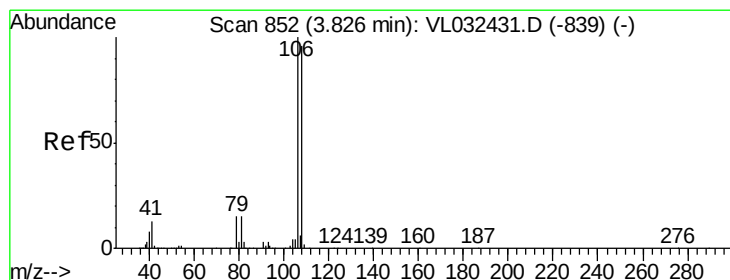
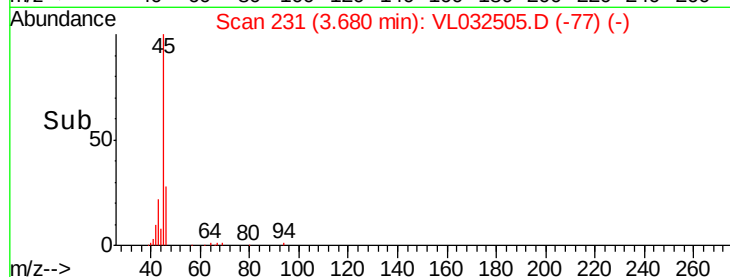
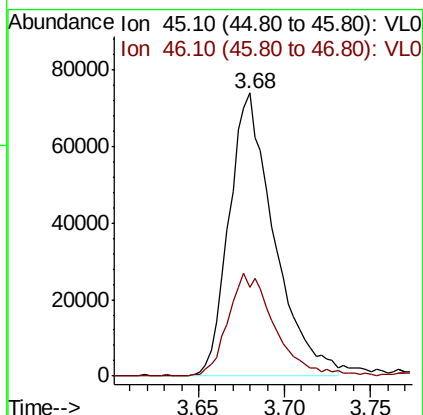
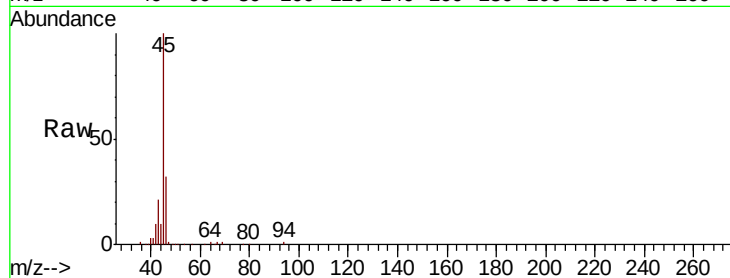
#13
Ethanol
Concen: 8.55 ppbv
RT: 3.68 min Scan# 231
Delta R.T. -0.01 min
Lab File: VL032505.D
Acq: 11 Sep 2018 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	45	Resp	134640
Ion Ratio	100	Lower	Upper
45	100		
46	37.7	14.2	56.8

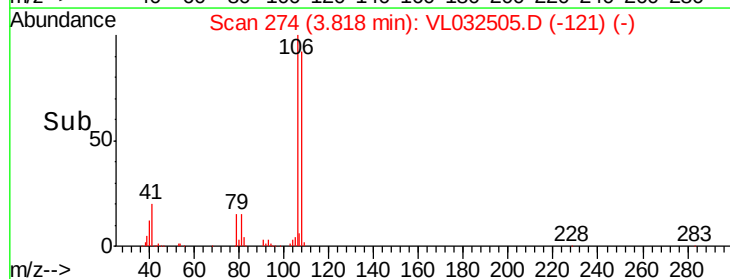
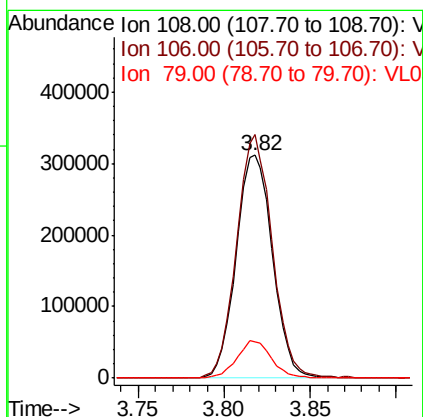
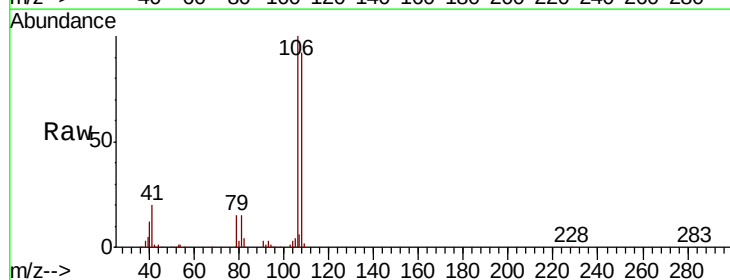
Manual Integrations
APPROVED

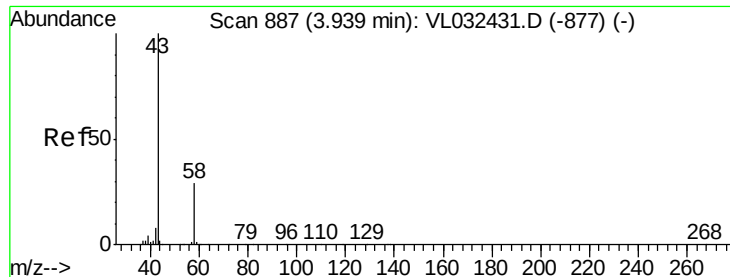
MMDadoda
9/12/2018 3:59:56 PM



#14
Bromoethene
Concen: 9.98 ppbv
RT: 3.82 min Scan# 274
Delta R.T. -0.01 min
Lab File: VL032505.D
Acq: 11 Sep 2018 13:00

Tgt Ion	108	Resp	457259
Ion Ratio	100	Lower	Upper
108	100		
106	107.4	85.5	128.3
79	16.3	13.0	19.6





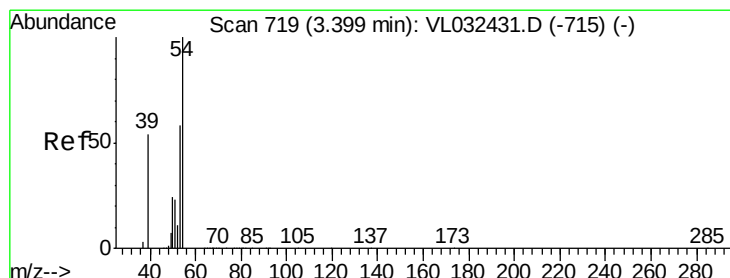
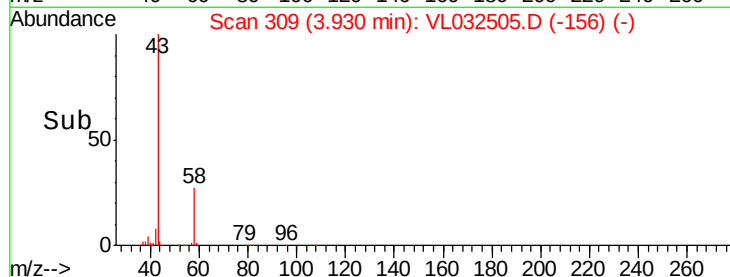
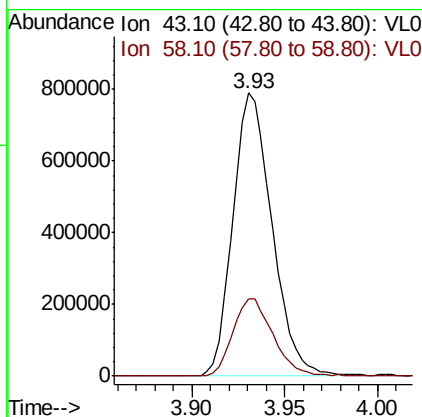
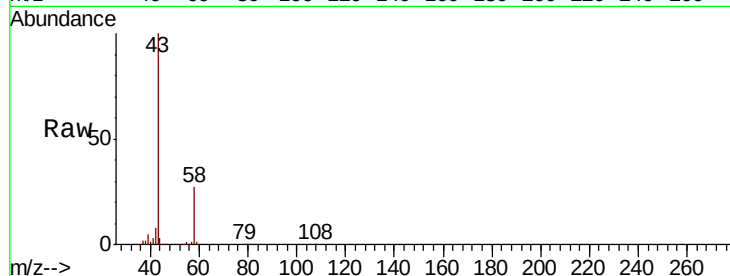
#15
Acetone
Concen: 9.29 ppbv
RT: 3.93 min Scan# 309
Delta R.T. -0.01 min
Lab File: VL032505.D
Acq: 11 Sep 2018 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1158033
Ion Ratio Lower Upper
43 100
58 28.3 22.6 33.8

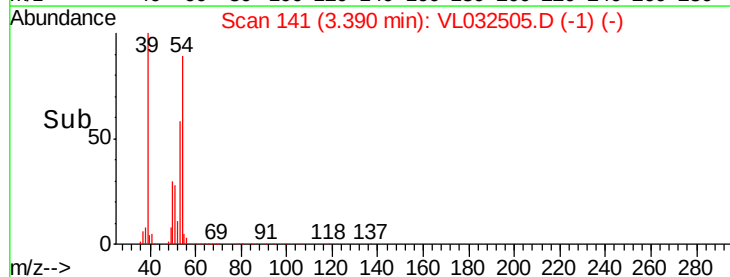
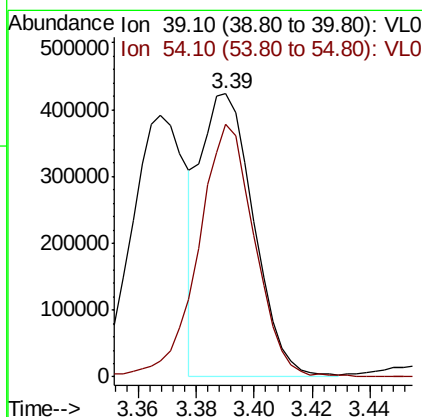
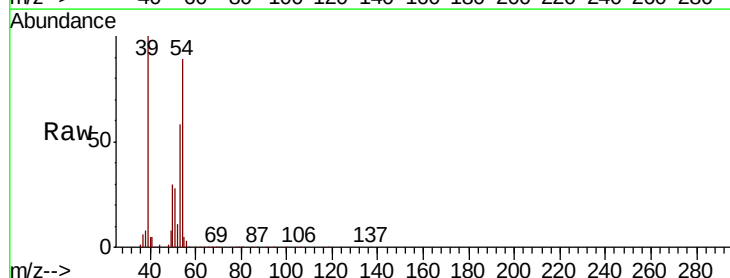
Manual Integrations
APPROVED

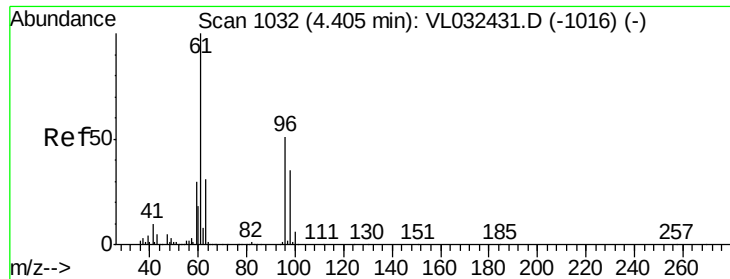
MMDadoda
9/12/2018 3:59:56 PM



#16
1,3-Butadiene
Concen: 9.18 ppbv
RT: 3.39 min Scan# 141
Delta R.T. -0.01 min
Lab File: VL032505.D
Acq: 11 Sep 2018 13:00

Tgt Ion: 39 Resp: 538539
Ion Ratio Lower Upper
39 100
54 95.4 80.8 121.2





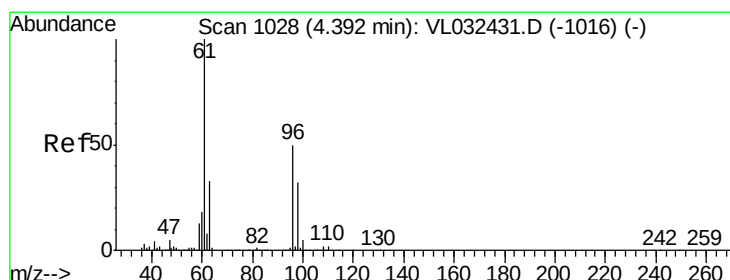
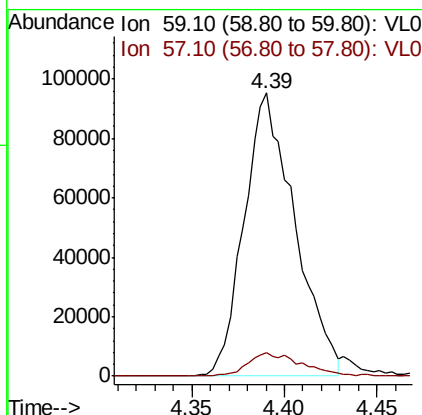
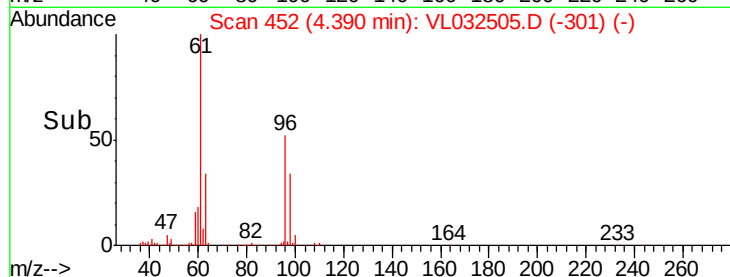
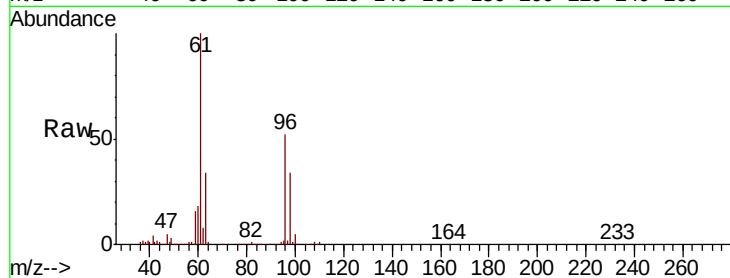
#17
 tert-Butyl alcohol
 Concen: 9.46 ppbv
 RT: 4.39 min Scan# 452
 Delta R.T. -0.01 min
 Lab File: VL032505.D
 Acq: 11 Sep 2018 13:00

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Tot Ion: 59 Resp: 181359
 Ion Ratio Lower Upper
 59 100
 57 8.9 0.0 0.0#

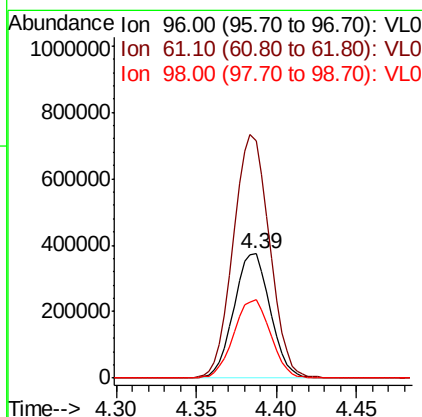
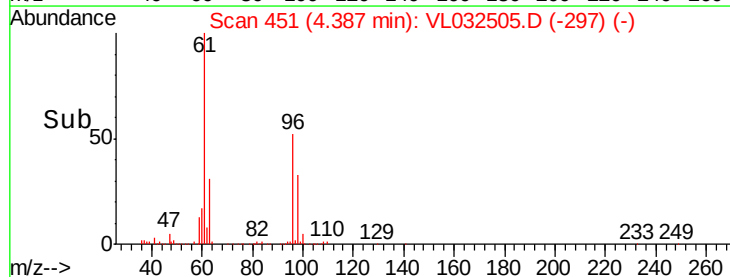
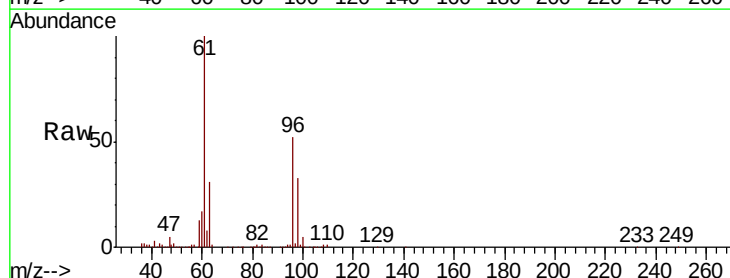
Manual Integrations
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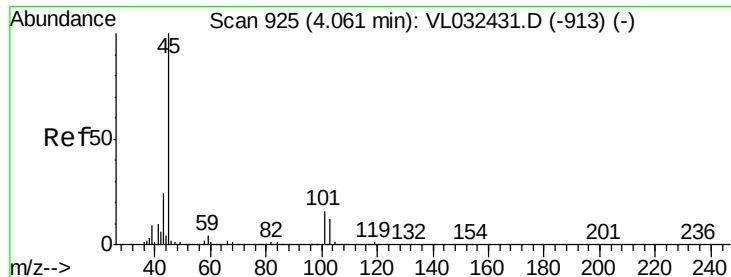
MMDadoda
 9/12/2018 3:59:56 PM



#18
 1,1-Dichloroethene
 Concen: 11.70 ppbv
 RT: 4.39 min Scan# 451
 Delta R.T. -0.01 min
 Lab File: VL032505.D
 Acq: 11 Sep 2018 13:00

Tgt Ion: 96 Resp: 578485
 Ion Ratio Lower Upper
 96 100
 61 191.7 159.2 238.8
 98 63.9 51.0 76.4





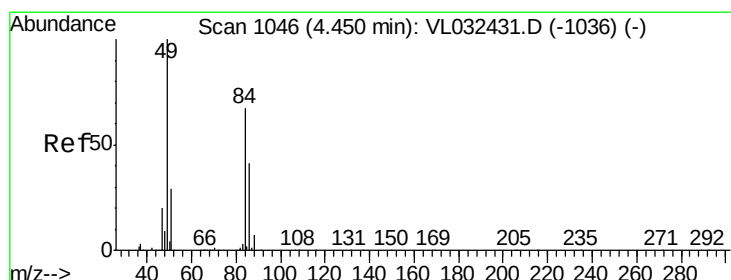
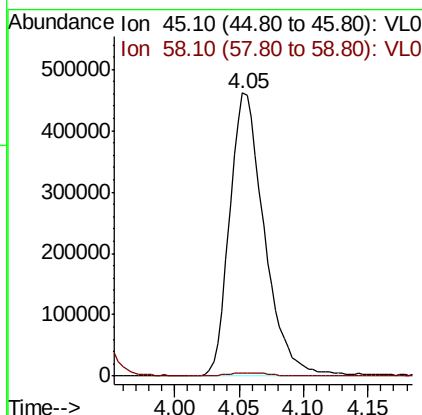
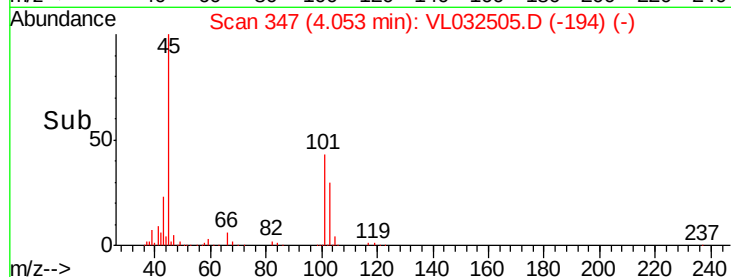
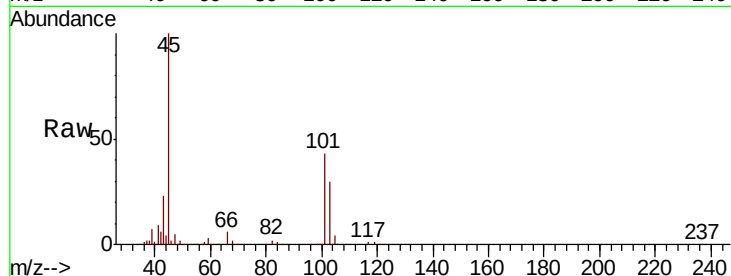
#19
Isopropyl Alcohol
Concen: 10.54 ppbv
RT: 4.05 min Scan# 347
Delta R.T. -0.01 min
Lab File: VL032505.D
Acq: 11 Sep 2018 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 45 Resp: 861992
Ion Ratio Lower Upper
45 100
58 1.7 2.0 3.0#

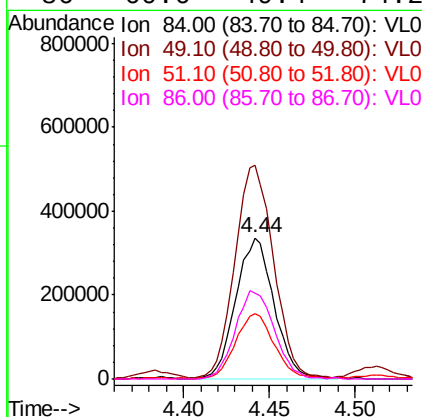
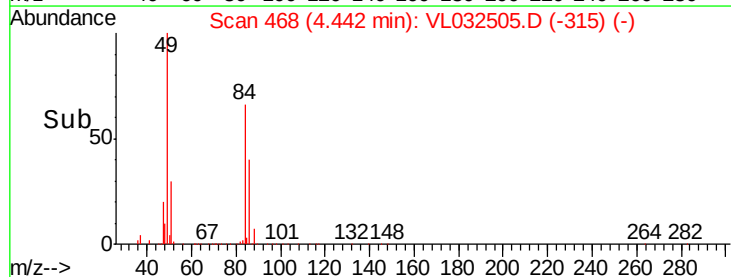
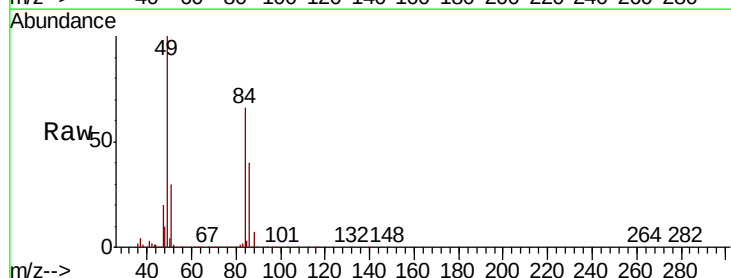
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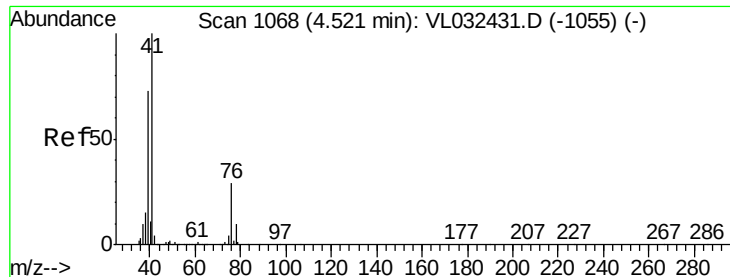
MMDadoda
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#20
Methylene Chloride
Concen: 10.87 ppbv
RT: 4.44 min Scan# 468
Delta R.T. -0.01 min
Lab File: VL032505.D
Acq: 11 Sep 2018 13:00

Tgt Ion: 84 Resp: 516593
Ion Ratio Lower Upper
84 100
49 150.2 119.1 178.7
51 45.5 35.2 52.8
86 60.6 49.4 74.2





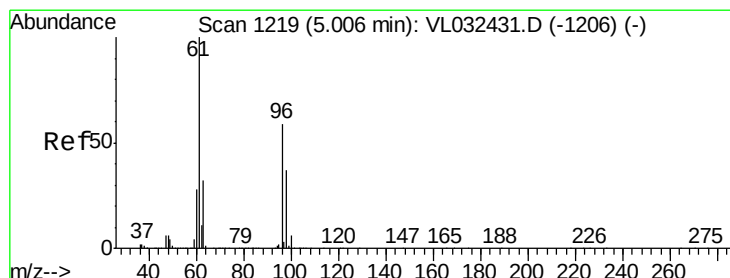
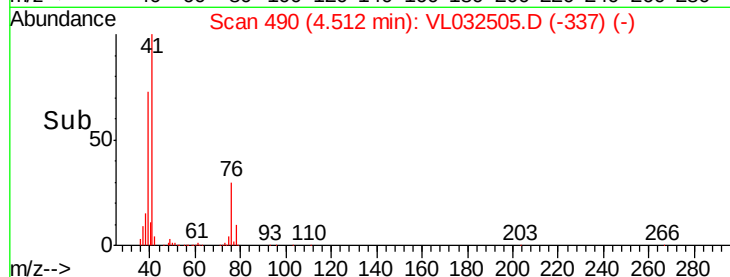
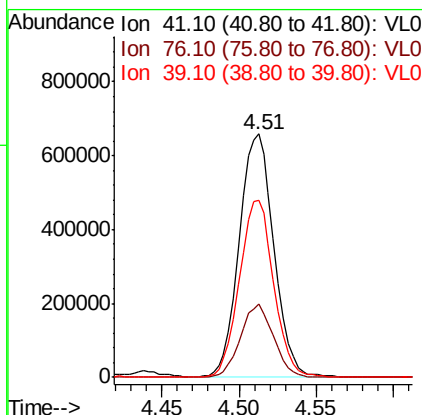
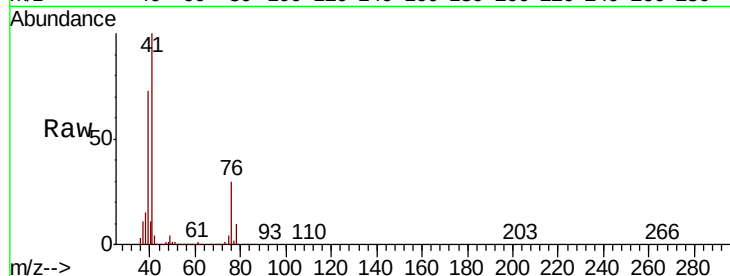
#21
Allvl Chloride
Concen: 12.33 ppbv
RT: 4.51 min Scan# 490
Delta R.T. -0.01 min
Lab File: VL032505.D
Acq: 11 Sep 2018 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 41 Resp: 1021082
Ion Ratio Lower Upper
41 100
76 28.9 23.6 35.4
39 72.3 57.7 86.5

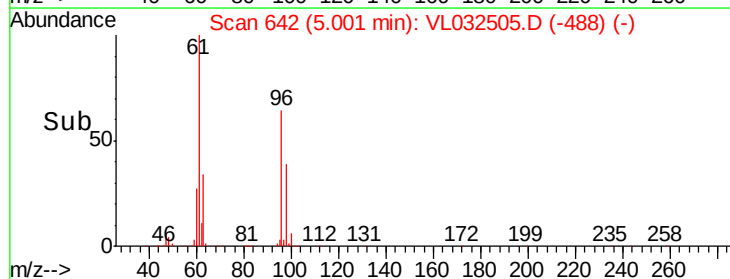
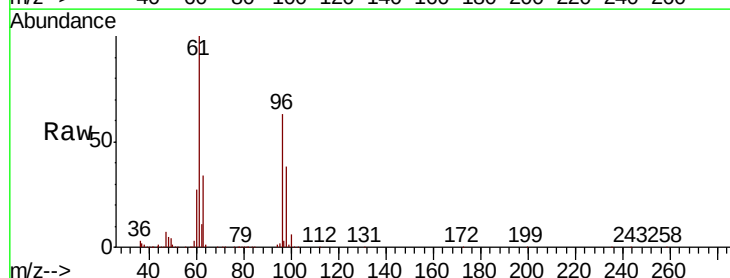
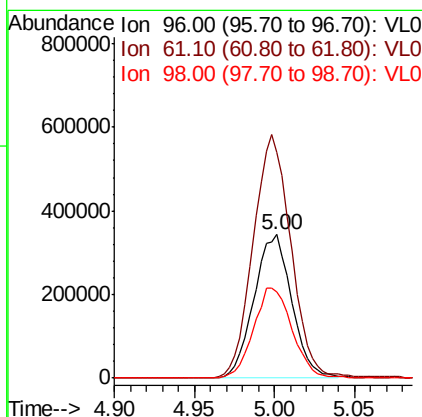
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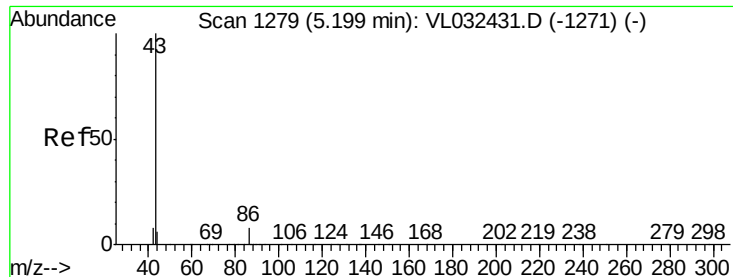
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#22
trans-1,2-Dichloroethene
Concen: 10.37 ppbv
RT: 5.00 min Scan# 642
Delta R.T. -0.01 min
Lab File: VL032505.D
Acq: 11 Sep 2018 13:00

Tgt Ion: 96 Resp: 556250
Ion Ratio Lower Upper
96 100
61 157.5 136.2 204.4
98 60.3 50.4 75.6





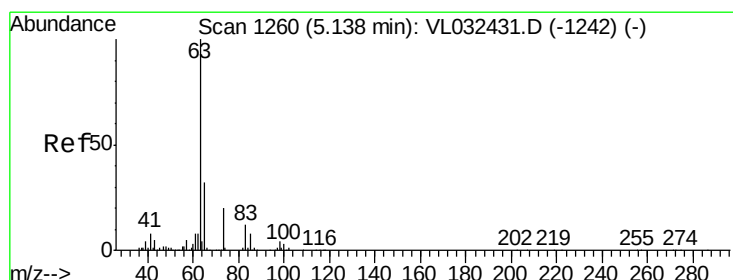
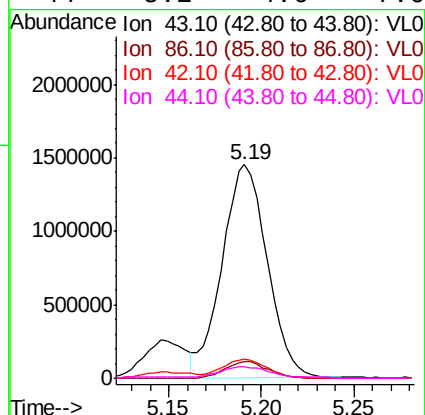
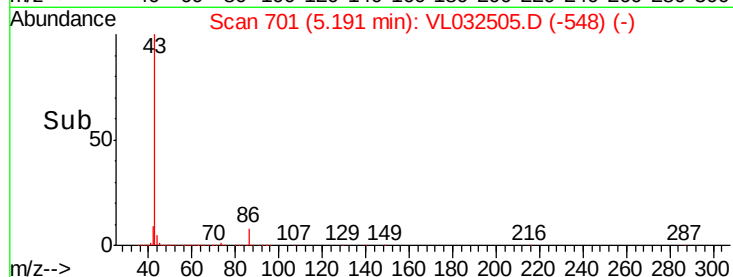
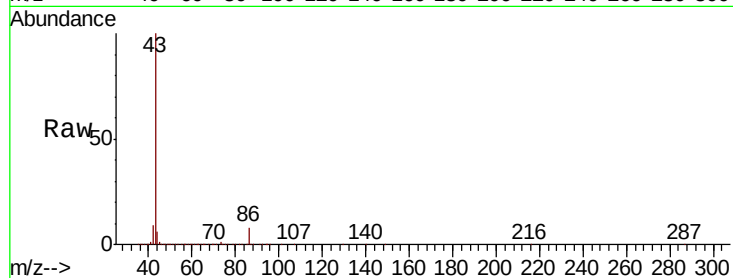
#23
 Vinyl Acetate
 Concen: 11.83 ppbv
 RT: 5.19 min Scan# 701
 Delta R.T. -0.01 min
 Lab File: VL032505.D
 Acq: 11 Sep 2018 13:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
86	7.6	5.9	8.9	
42	9.0	6.9	10.3	
44	5.2	4.6	7.0	

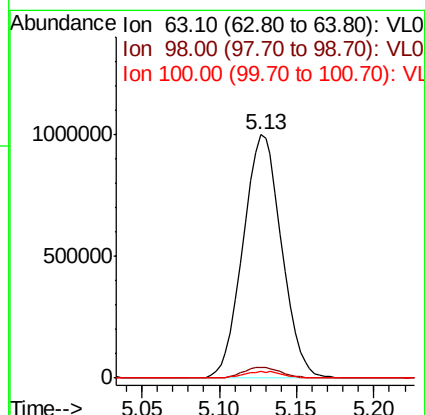
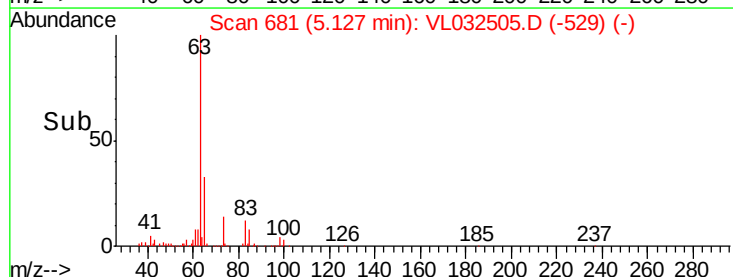
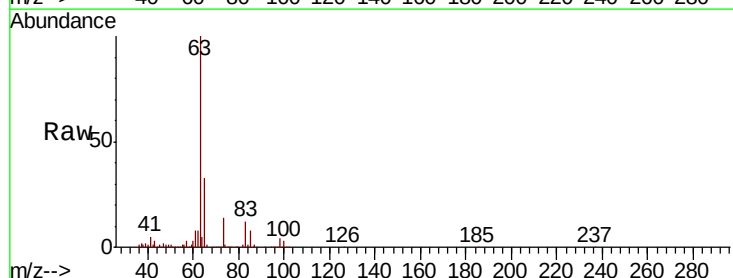
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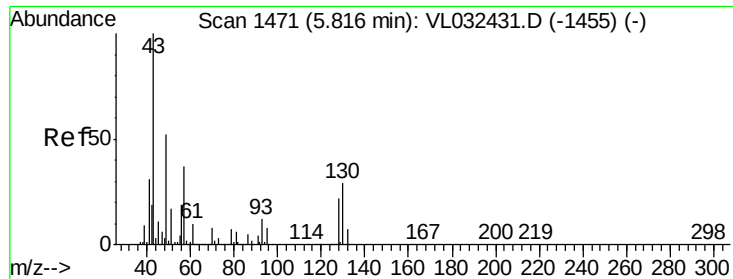
MMDadoda
 9/12/2018 3:59:56 PM



#24
 1,1-Dichloroethane
 Concen: 10.18 ppbv
 RT: 5.13 min Scan# 681
 Delta R.T. -0.01 min
 Lab File: VL032505.D
 Acq: 11 Sep 2018 13:00

Tgt Ion	Ion	Ratio	Lower	Upper
63	100			
98	4.3	2.1	6.5	
100	2.7	1.5	4.4	





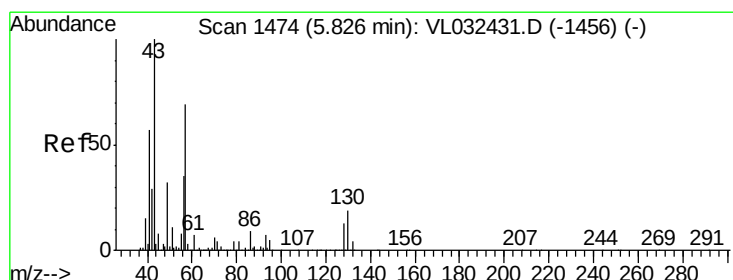
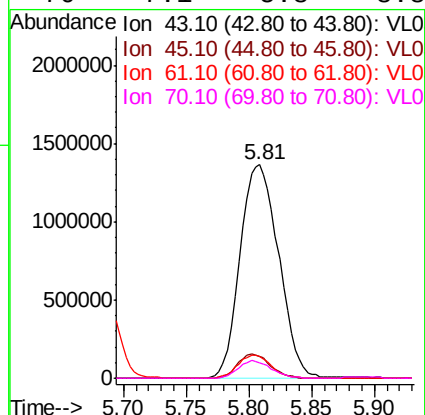
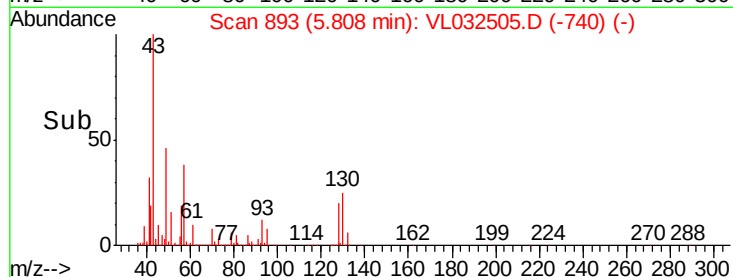
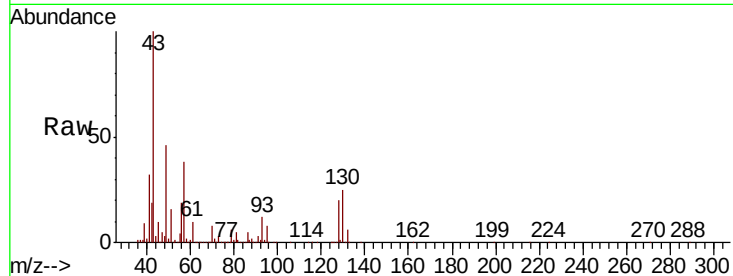
#25
Ethyl Acetate
Concen: 9.93 ppbv
RT: 5.81 min Scan# 893
Delta R.T. -0.01 min
Lab File: VL032505.D
Acq: 11 Sep 2018 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	43	Resp	2921662
Ion	Ratio	Lower	Upper
43	100		
45	9.7	8.0	12.0
61	9.6	7.6	11.4
70	7.1	5.8	8.8

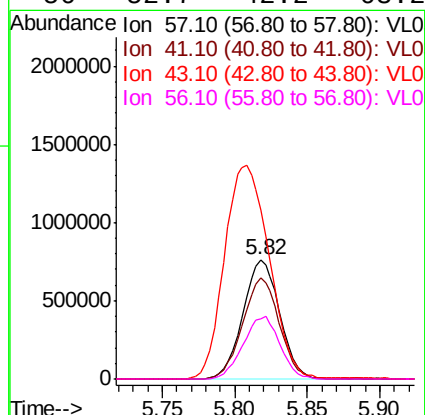
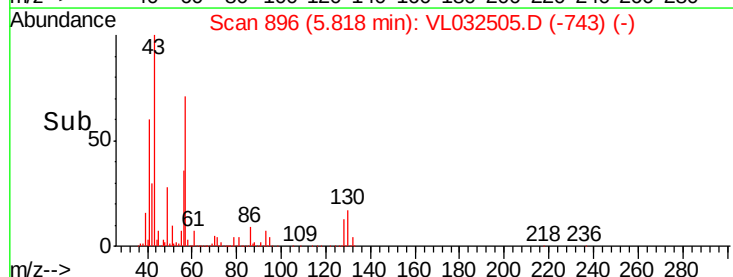
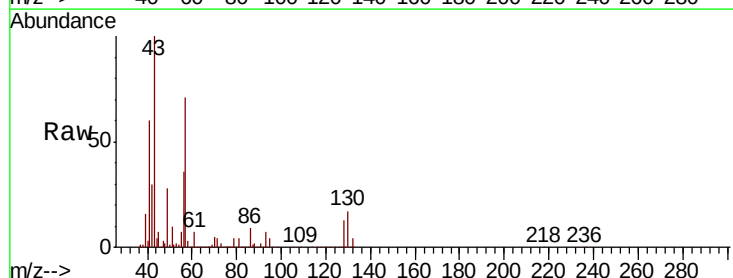
Manual Integrations
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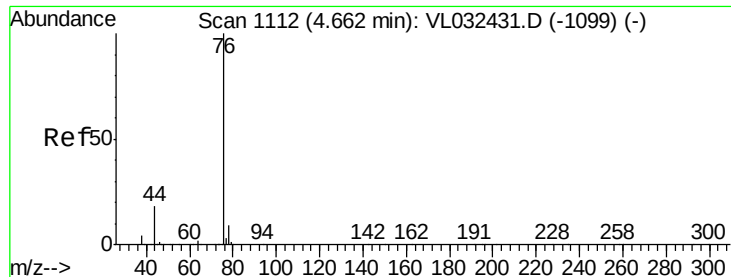
MMDadoda
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#26
Hexane
Concen: 10.13 ppbv
RT: 5.82 min Scan# 896
Delta R.T. -0.01 min
Lab File: VL032505.D
Acq: 11 Sep 2018 13:00

Tgt Ion	57	Resp	1334749
Ion	Ratio	Lower	Upper
57	100		
41	85.4	69.0	103.4
43	220.2	172.1	258.1
56	52.7	42.2	63.2





#27

Carbon Disulfide

Concen: 11.92 ppbv

RT: 4.65 min Scan# 534

Delta R.T. -0.01 min

Lab File: VL032505.D

Acq: 11 Sep 2018 13:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1450595

Ion Ratio Lower Upper

76 100

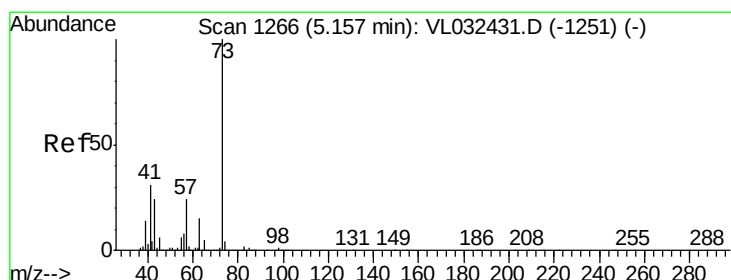
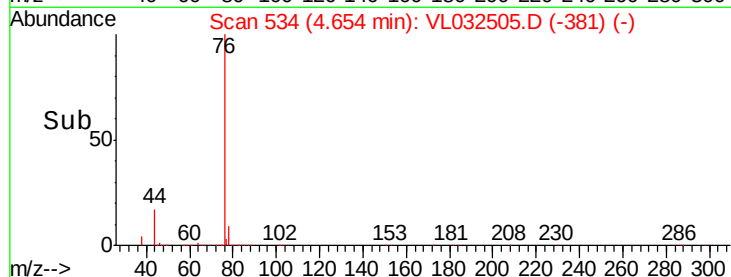
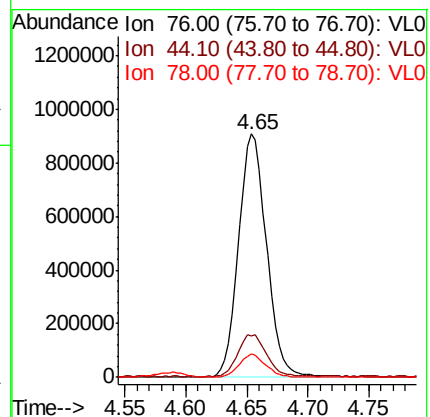
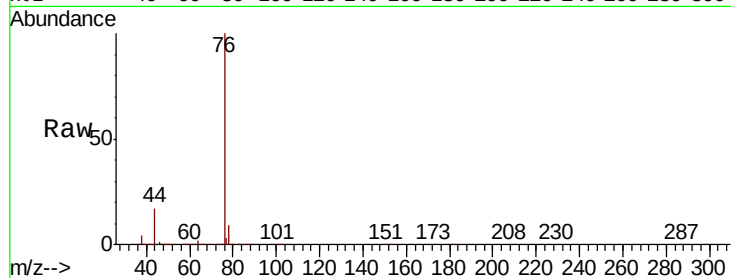
44 17.5 14.0 21.0

78 9.3 7.5 11.3

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 11.84 ppbv

RT: 5.15 min Scan# 688

Delta R.T. -0.01 min

Lab File: VL032505.D

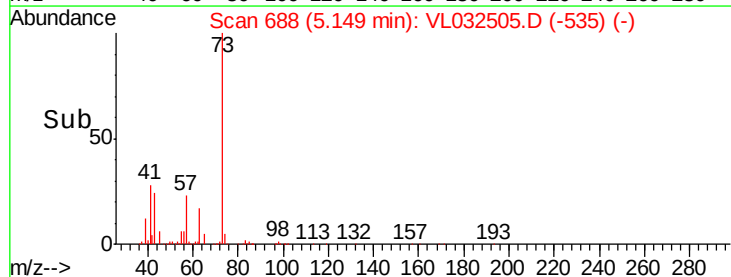
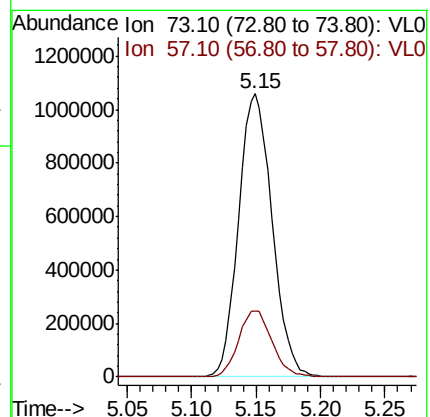
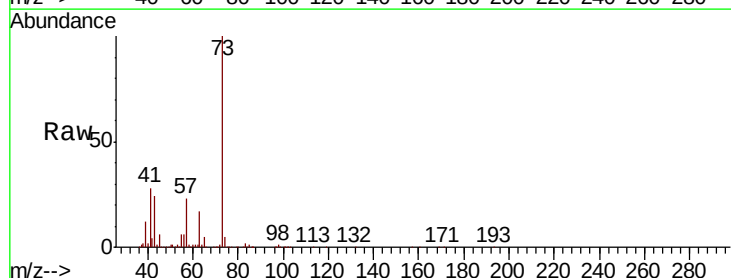
Acq: 11 Sep 2018 13:00

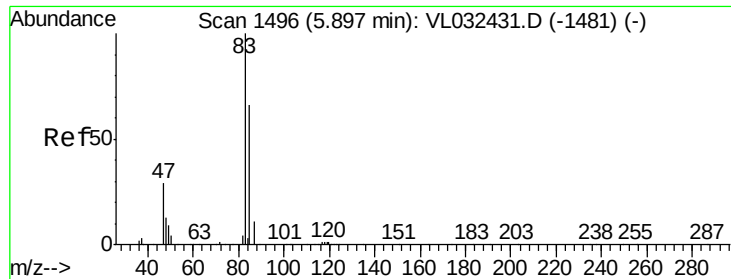
Tgt Ion: 73 Resp: 1915694

Ion Ratio Lower Upper

73 100

57 23.5 19.3 28.9





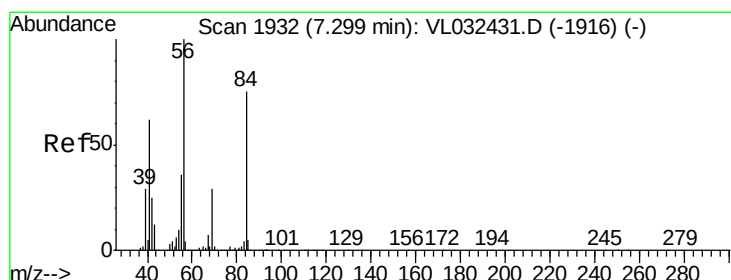
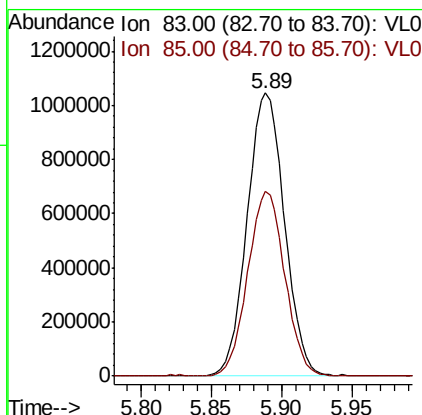
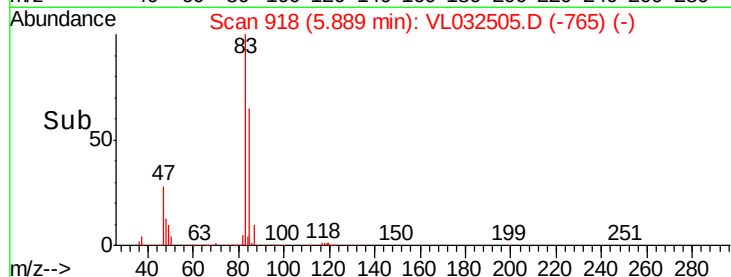
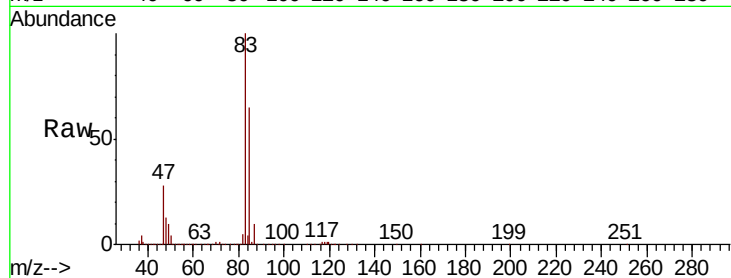
#29
Chloroform
Concen: 9.65 ppbv
RT: 5.89 min Scan# 918
Delta R.T. -0.01 min
Lab File: VL032505.D
Acq: 11 Sep 2018 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1939530
Ion Ratio Lower Upper
83 100
85 65.4 52.5 78.7

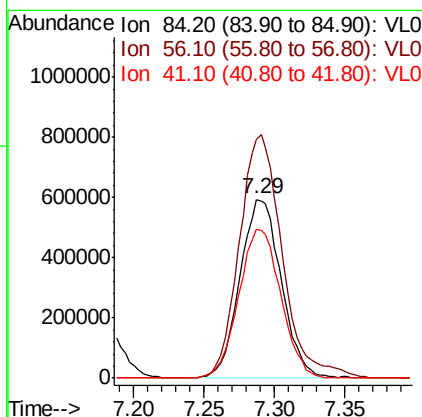
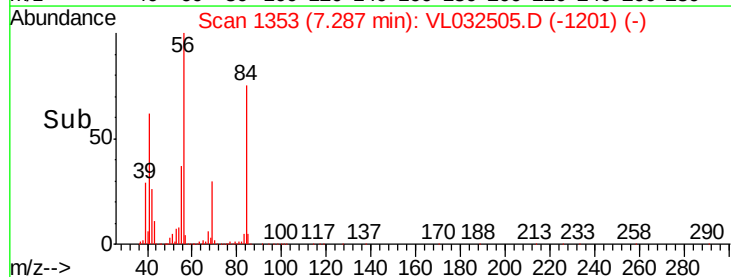
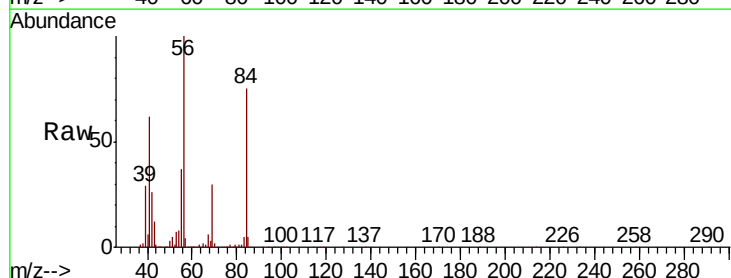
Manual Integrations
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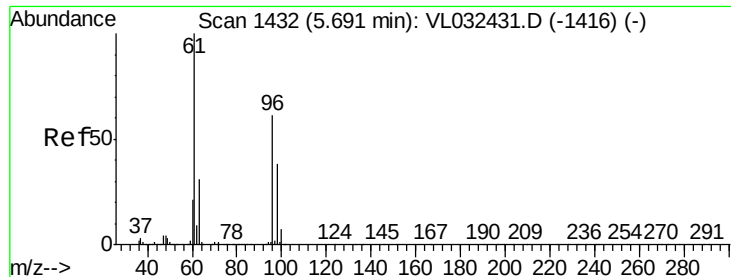
MMDadoda
9/12/2018 3:59:56 PM



#30
Cyclohexane
Concen: 12.53 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. -0.01 min
Lab File: VL032505.D
Acq: 11 Sep 2018 13:00

Tgt Ion: 84 Resp: 1209127
Ion Ratio Lower Upper
84 100
56 143.0 113.5 170.3
41 85.2 68.1 102.1





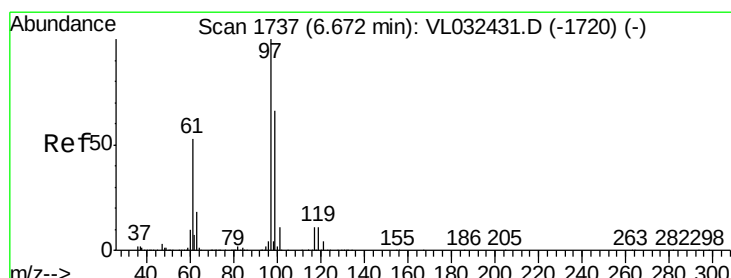
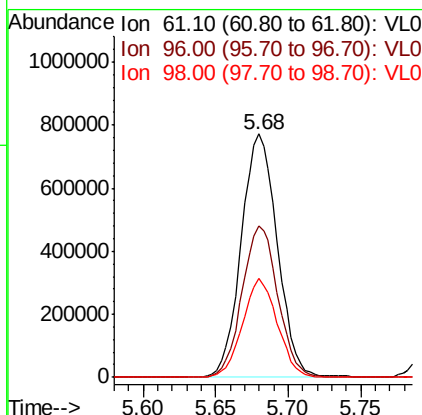
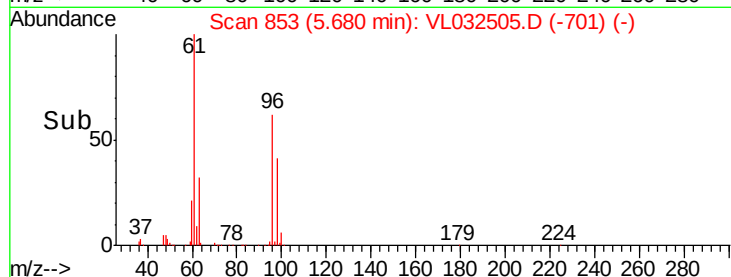
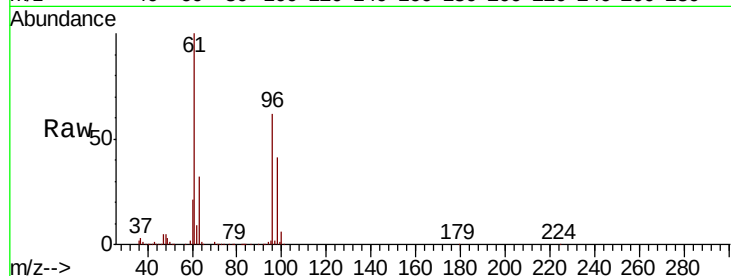
#31
 cis-1,2-Dichloroethene
 Concen: 11.18 ppbv
 RT: 5.68 min Scan# 853
 Delta R.T. -0.01 min
 Lab File: VL032505.D
 Acq: 11 Sep 2018 13:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	62.3	49.2	73.8
98	40.7	30.7	46.1

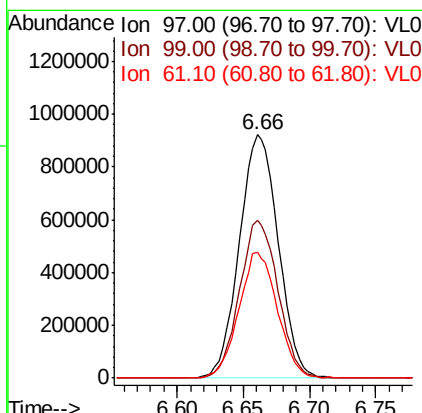
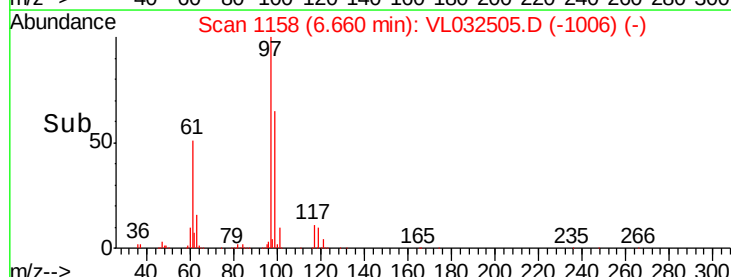
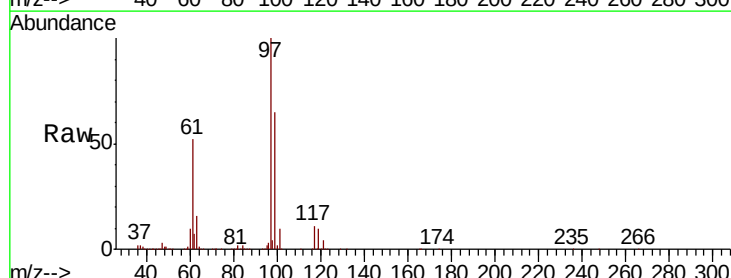
Manual Integrations
 APPROVED

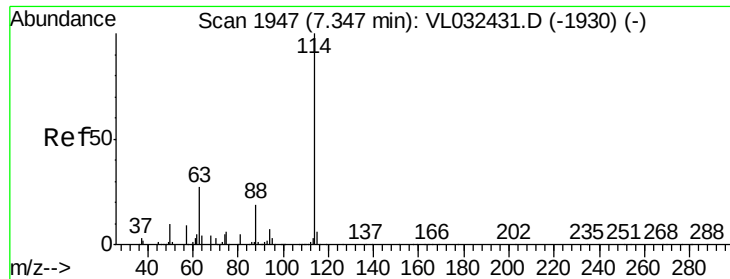
MMDadoda
 9/12/2018 3:59:56 PM



#32
 1,1,1-Trichloroethane
 Concen: 10.06 ppbv
 RT: 6.66 min Scan# 1158
 Delta R.T. -0.01 min
 Lab File: VL032505.D
 Acq: 11 Sep 2018 13:00

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.1	52.1	78.1
61	51.3	42.5	63.7





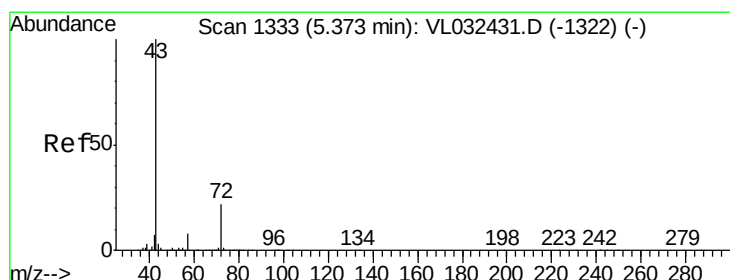
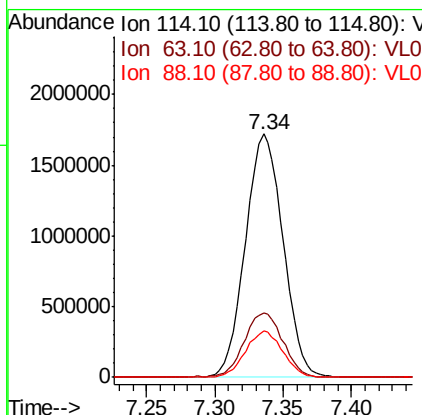
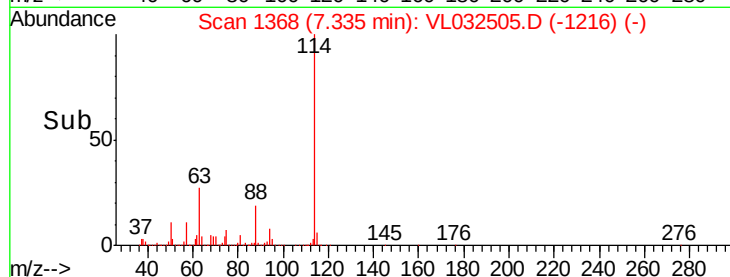
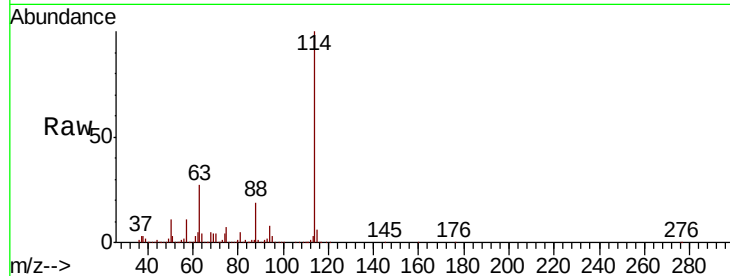
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.34 min Scan# 1368
 Delta R.T. -0.01 min
 Lab File: VL032505.D
 Acq: 11 Sep 2018 13:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.5	22.2	33.4
88	18.9	15.0	22.4

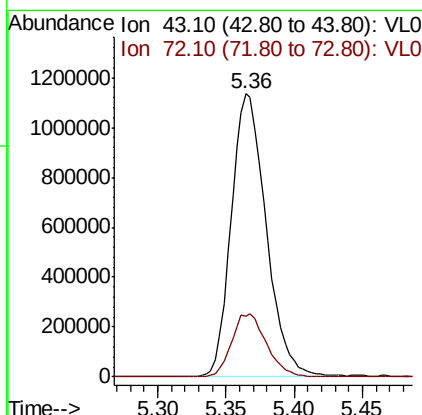
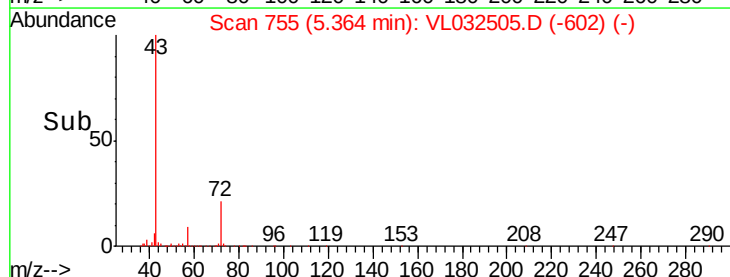
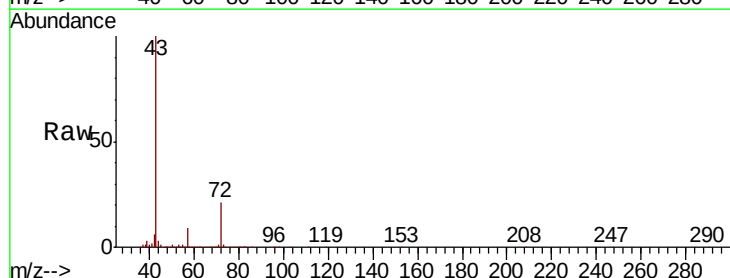
Manual Integrations
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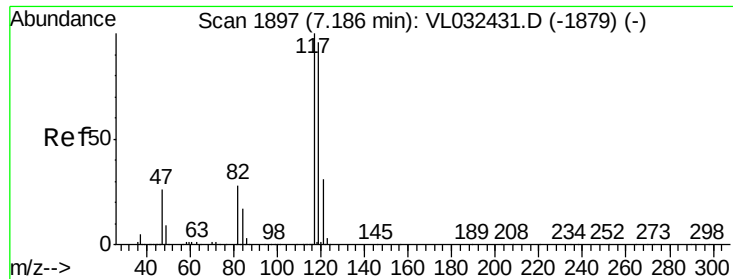
MMDadoda
 9/12/2018 3:59:56 PM



#34
 2-Butanone
 Concen: 9.18 ppbv
 RT: 5.36 min Scan# 755
 Delta R.T. -0.01 min
 Lab File: VL032505.D
 Acq: 11 Sep 2018 13:00

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.3	17.8	26.6





#35

Carbon Tetrachloride

Concen: 9.20 ppbv

RT: 7.18 min Scan# 1319

Delta R.T. -0.01 min

Lab File: VL032505.D

Acq: 11 Sep 2018 13:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 117 Resp: 2040814

Ion Ratio Lower Upper

117 100

119 98.1 76.6 115.0

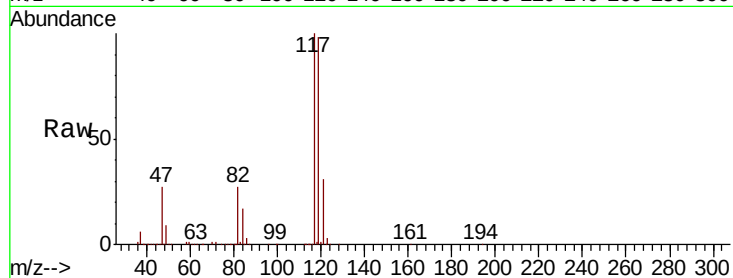
121 30.7 24.6 36.8

Manual Integrations

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MMDadoda

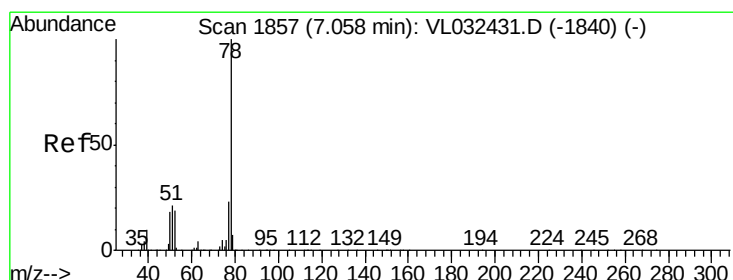
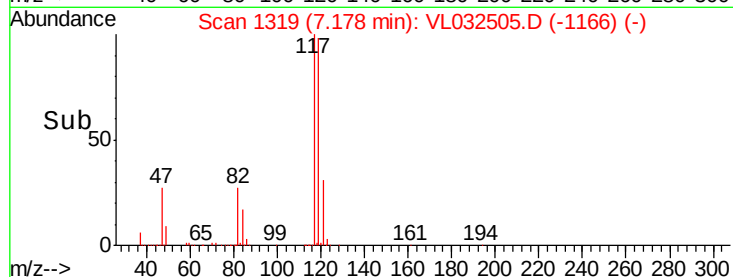
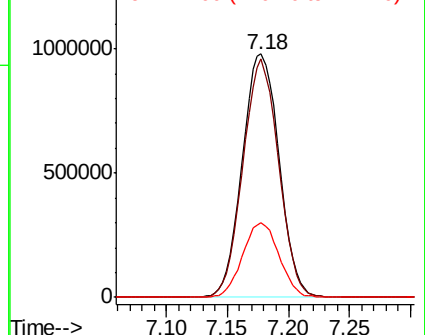
9/12/2018 3:59:56 PM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.90 ppbv

RT: 7.05 min Scan# 1279

Delta R.T. -0.01 min

Lab File: VL032505.D

Acq: 11 Sep 2018 13:00

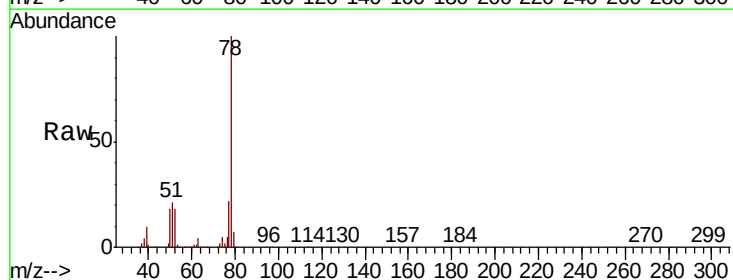
Tgt Ion: 78 Resp: 2780679

Ion Ratio Lower Upper

78 100

77 21.9 18.4 27.6

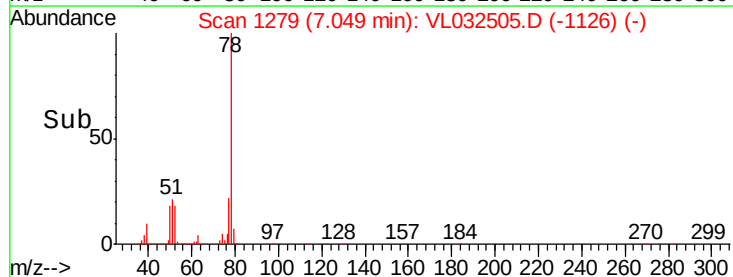
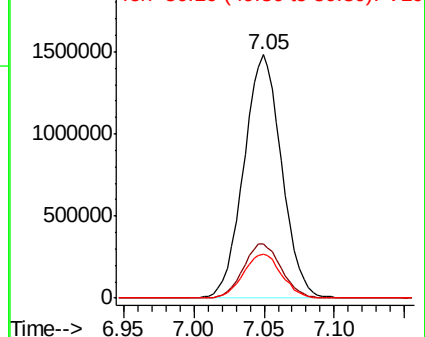
50 17.8 14.4 21.6

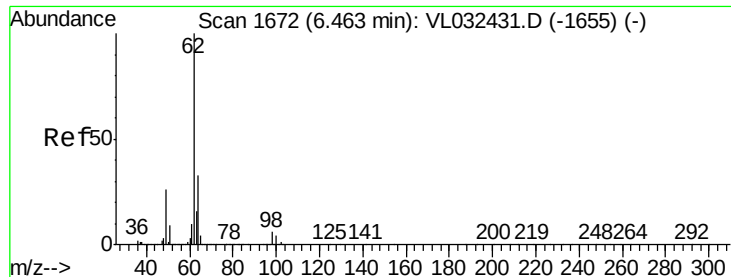


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





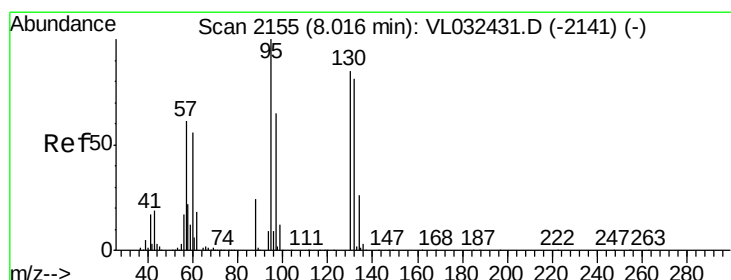
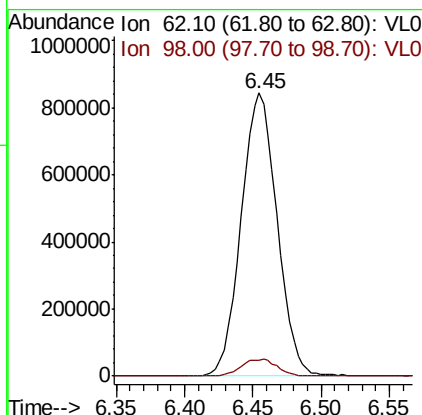
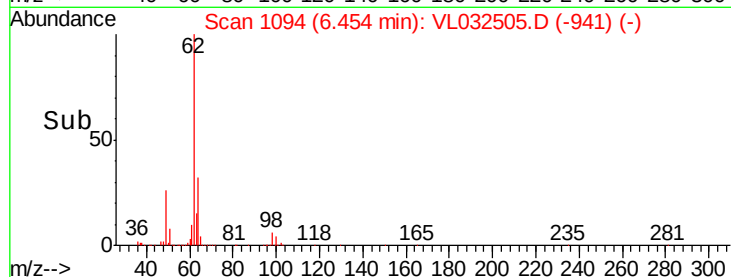
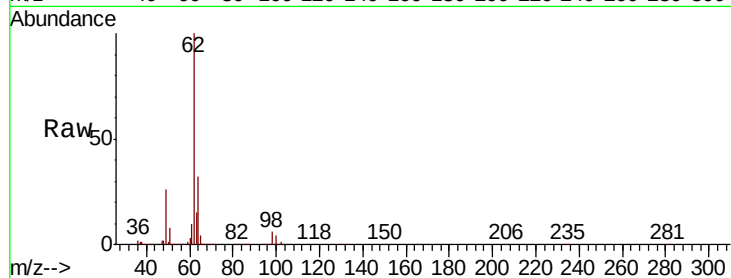
#37
 1,2-Dichloroethane
 Concen: 8.95 ppbv
 RT: 6.45 min Scan# 1094
 Delta R.T. -0.01 min
 Lab File: VL032505.D
 Acq: 11 Sep 2018 13:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 62 Resp: 1541289
 Ion Ratio Lower Upper
 62 100
 98 6.2 5.0 7.6

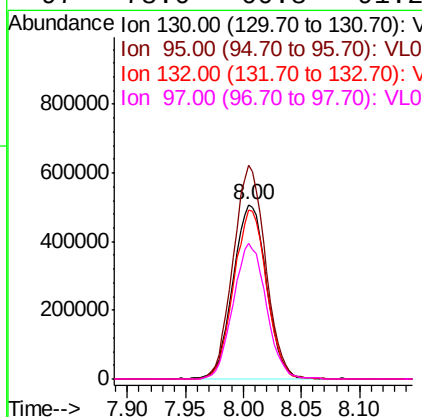
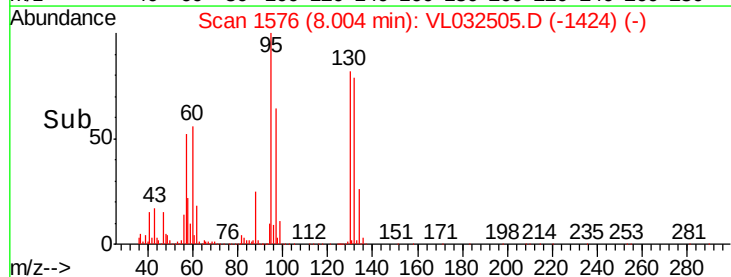
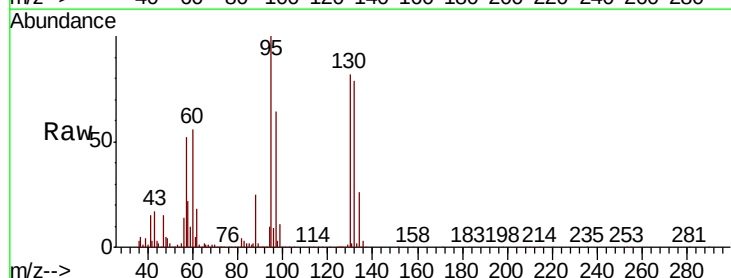
Manual Integrations
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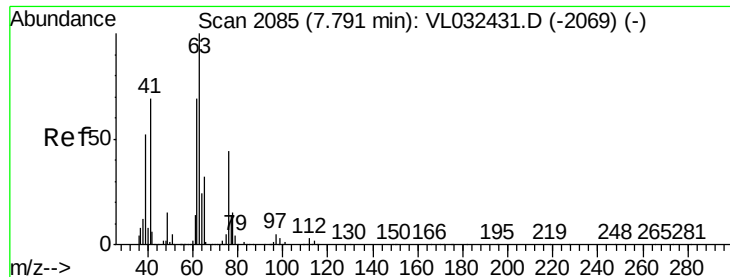
MMDadoda
 9/12/2018 3:59:56 PM



#38
 Trichloroethene
 Concen: 9.44 ppbv
 RT: 8.00 min Scan# 1576
 Delta R.T. -0.01 min
 Lab File: VL032505.D
 Acq: 11 Sep 2018 13:00

Tgt Ion: 130 Resp: 1007300
 Ion Ratio Lower Upper
 130 100
 95 122.4 94.2 141.4
 132 96.5 76.2 114.4
 97 78.0 60.8 91.2





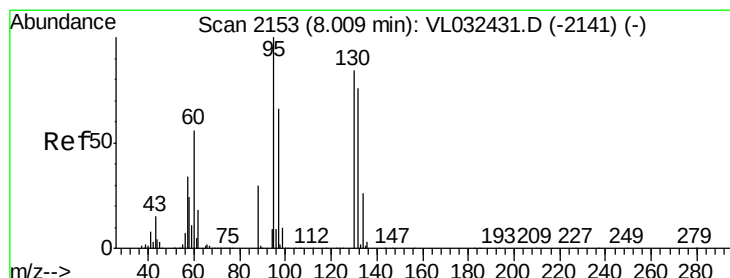
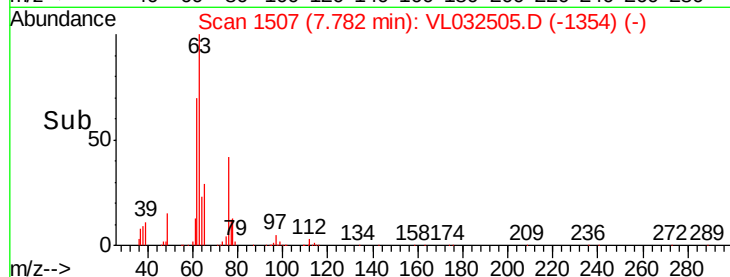
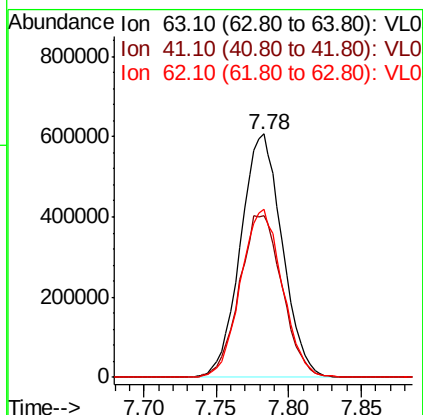
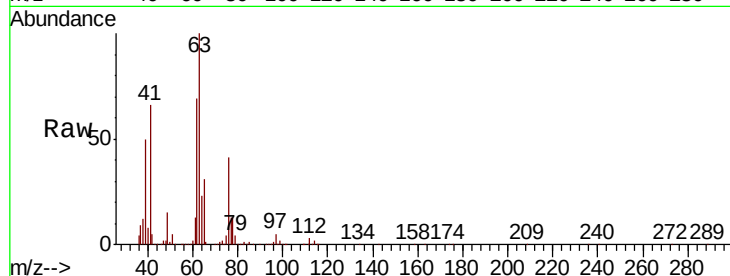
#39
 1,2-Dichloropropane
 Concen: 10.06 ppbv
 RT: 7.78 min Scan# 1507
 Delta R.T. -0.01 min
 Lab File: VL032505.D
 Acq: 11 Sep 2018 13:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	66.3	55.4	83.0
62	69.2	55.4	83.0

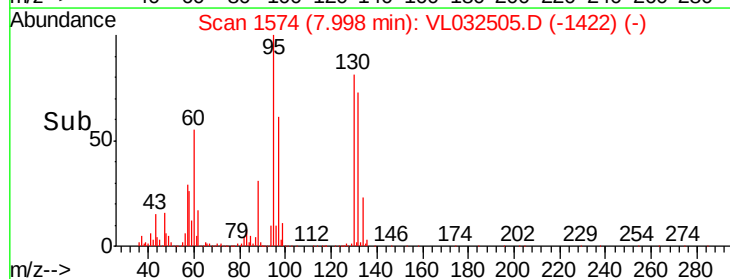
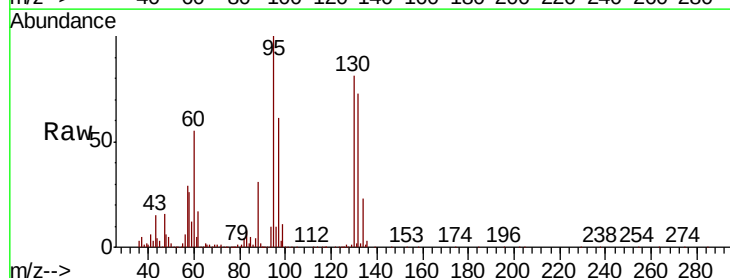
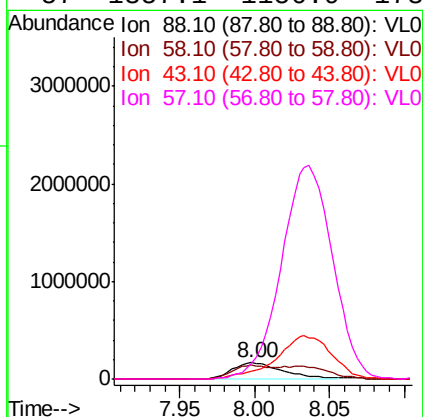
Manual Integrations
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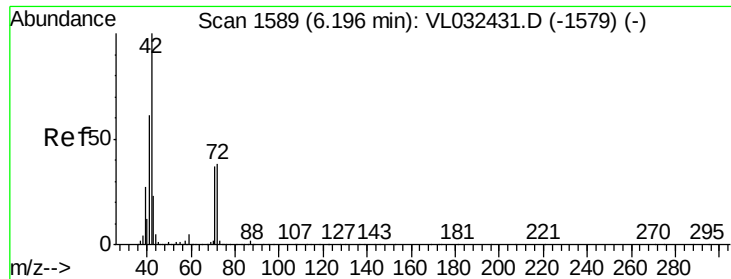
MMDadoda
 9/12/2018 3:59:56 PM



#40
 1,4-Dioxane
 Concen: 10.66 ppbv
 RT: 8.00 min Scan# 1574
 Delta R.T. -0.01 min
 Lab File: VL032505.D
 Acq: 11 Sep 2018 13:00

Tgt Ion	Ratio	Lower	Upper
88	100		
58	144.9	119.7	179.5
43	295.5	253.0	379.4
57	1357.1	1156.9	1735.3





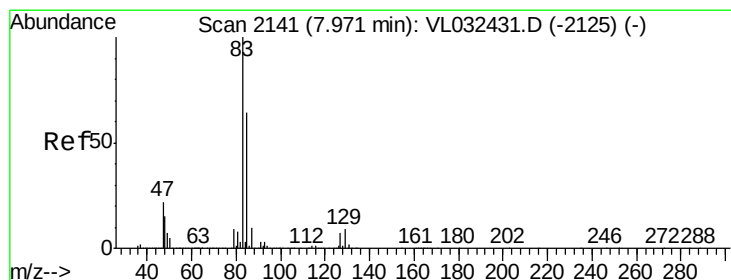
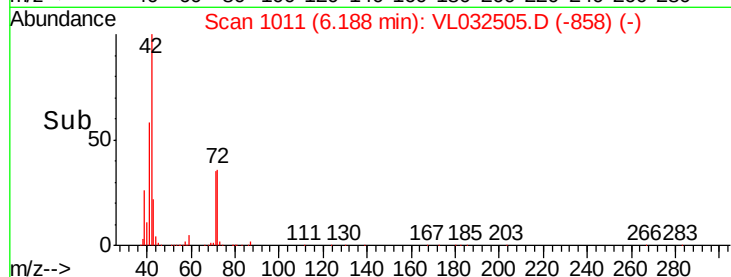
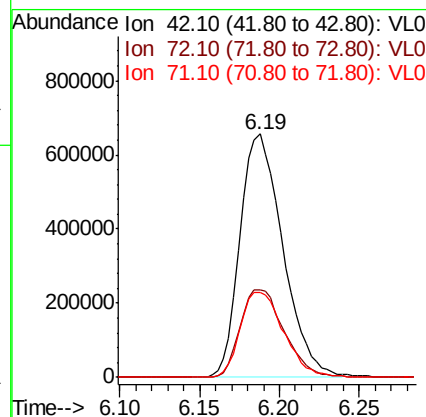
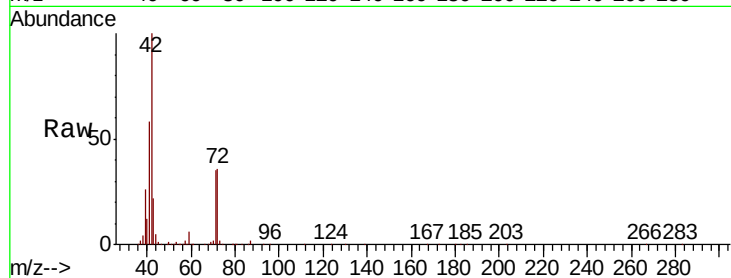
#41
Tetrahydrofuran
Concen: 10.02 ppbv
RT: 6.19 min Scan# 1011
Delta R.T. -0.01 min
Lab File: VL032505.D
Acq: 11 Sep 2018 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 42 Resp: 1196013
Ion Ratio Lower Upper
42 100
72 37.4 29.5 44.3
71 35.7 28.3 42.5

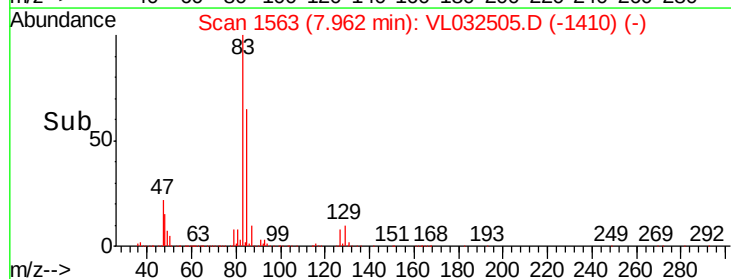
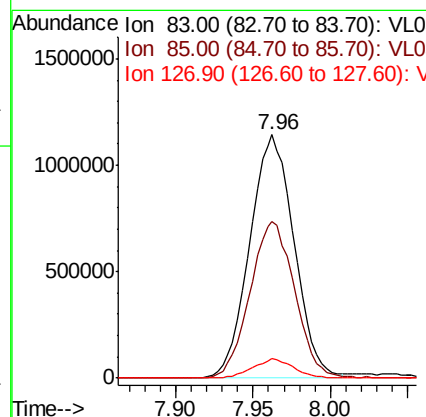
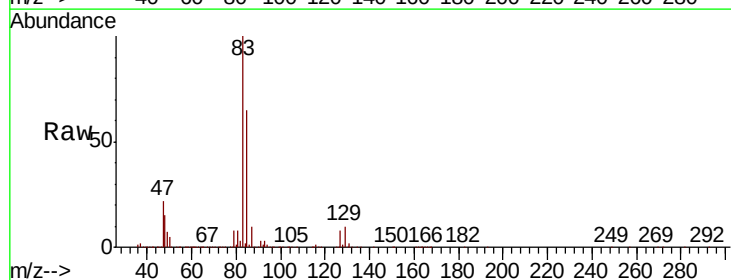
Manual Integrations
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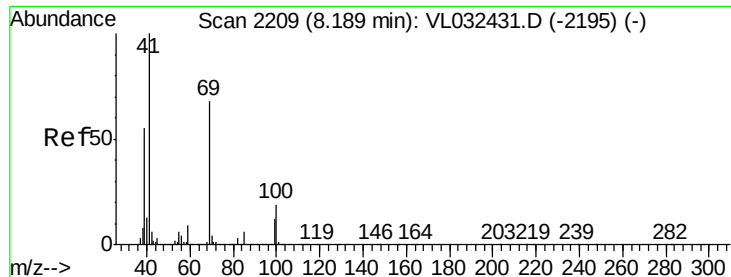
MMDadoda
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#42
Bromodichloromethane
Concen: 9.56 ppbv
RT: 7.96 min Scan# 1563
Delta R.T. -0.01 min
Lab File: VL032505.D
Acq: 11 Sep 2018 13:00

Tgt Ion: 83 Resp: 2271170
Ion Ratio Lower Upper
83 100
85 64.6 51.1 76.7
127 7.9 5.8 8.8





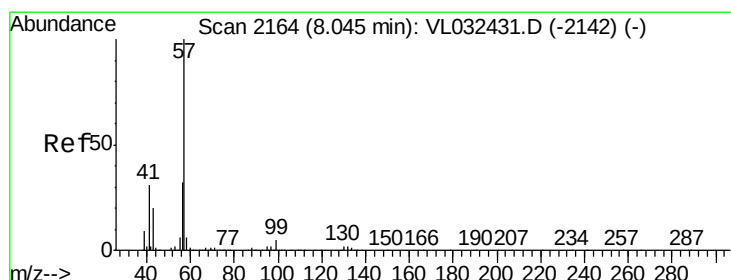
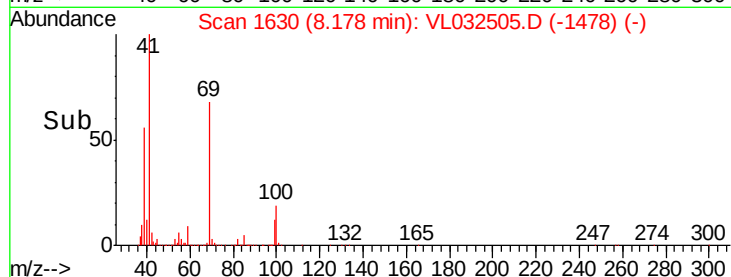
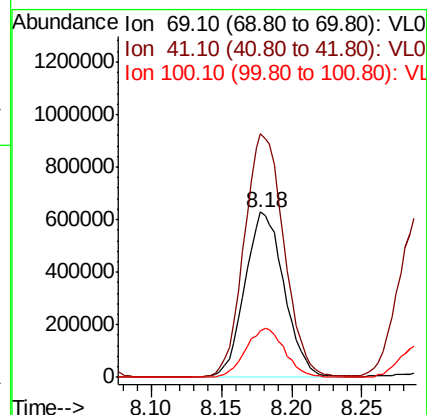
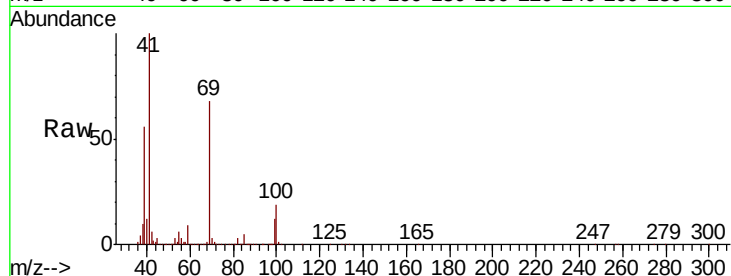
#43
Methyl Methacrylate
Concen: 10.27 ppbv
RT: 8.18 min Scan# 1630
Delta R.T. -0.01 min
Lab File: VL032505.D
Acq: 11 Sep 2018 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	149.4	117.1	175.7	
100	29.5	23.4	35.2	

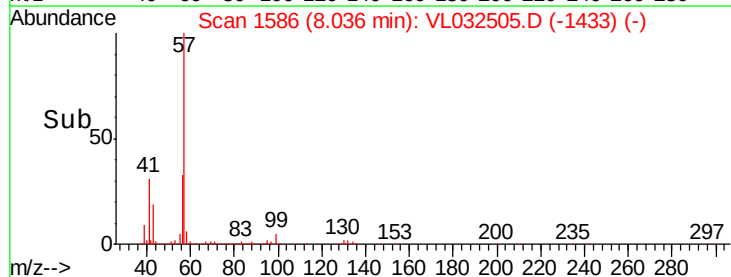
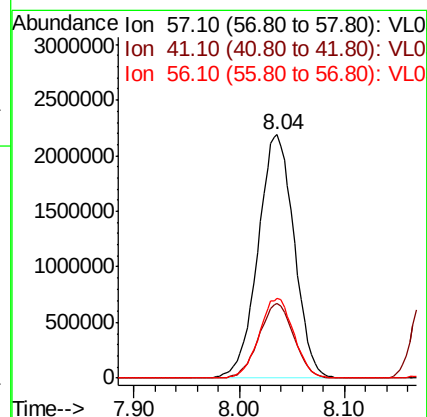
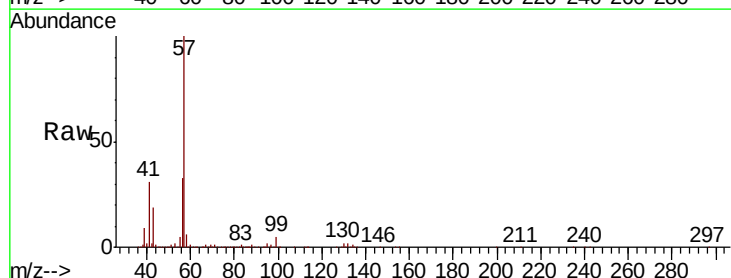
Manual Integrations
APPROVED

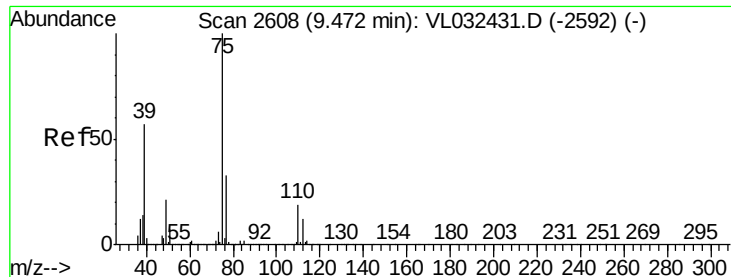
MMDadoda
9/12/2018 3:59:56 PM



#44
2,2,4-Trimethylpentane
Concen: 9.59 ppbv
RT: 8.04 min Scan# 1586
Delta R.T. -0.01 min
Lab File: VL032505.D
Acq: 11 Sep 2018 13:00

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	29.9	24.4	36.6	
56	31.6	25.7	38.5	





#45

t-1,3-Dichloropropene

Concen: 12.94 ppbv

RT: 9.46 min Scan# 2029

Delta R.T. -0.01 min

Lab File: VL032505.D

Acq: 11 Sep 2018 13:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 75 Resp: 1650774

Ion Ratio Lower Upper

75 100

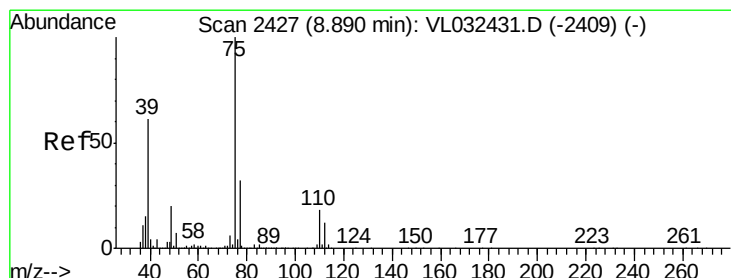
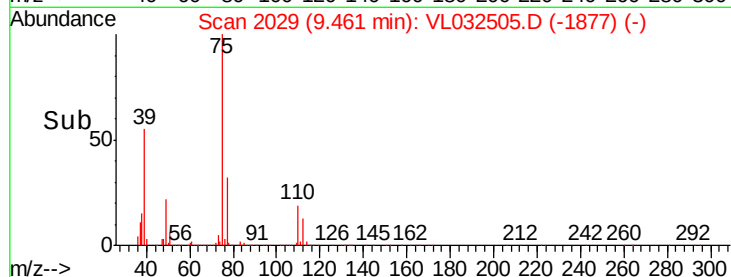
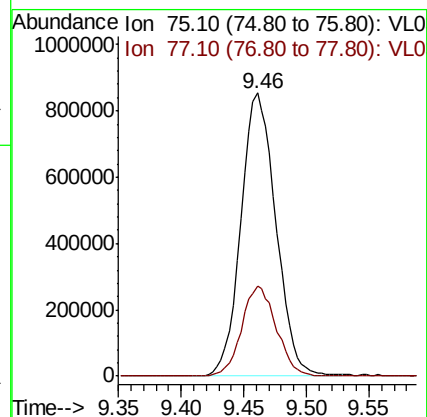
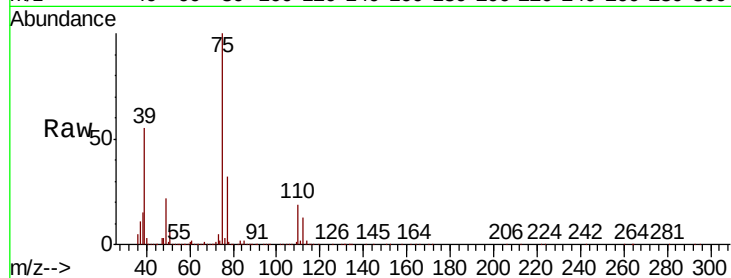
77 32.0 26.2 39.2

Manual Integrations

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#46

cis-1,3-Dichloropropene

Concen: 10.66 ppbv

RT: 8.88 min Scan# 1849

Delta R.T. -0.01 min

Lab File: VL032505.D

Acq: 11 Sep 2018 13:00

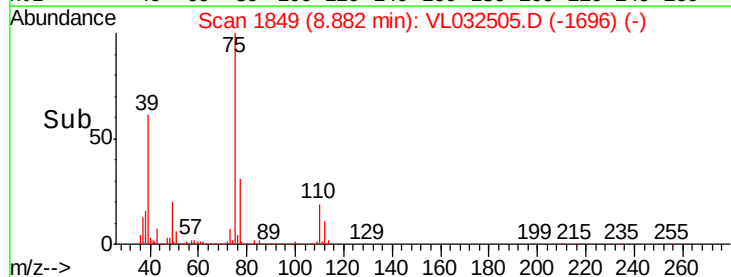
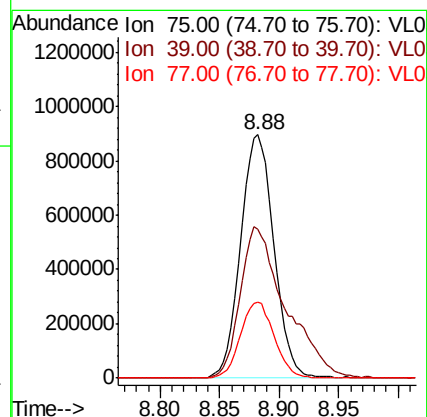
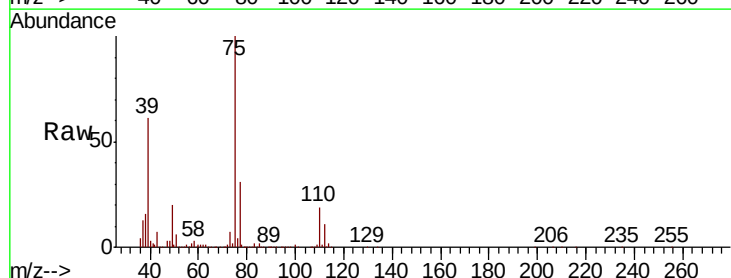
Tgt Ion: 75 Resp: 1737053

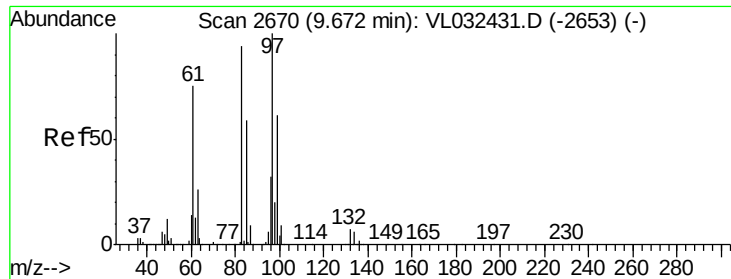
Ion Ratio Lower Upper

75 100

39 61.3 48.9 73.3

77 31.3 25.4 38.0





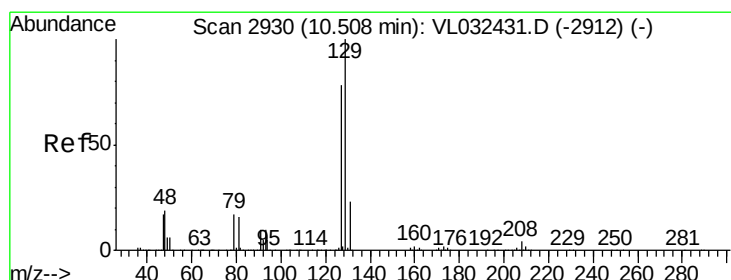
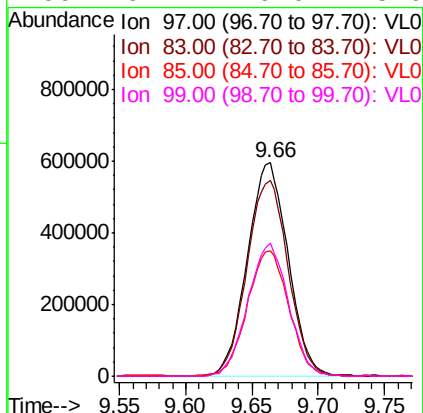
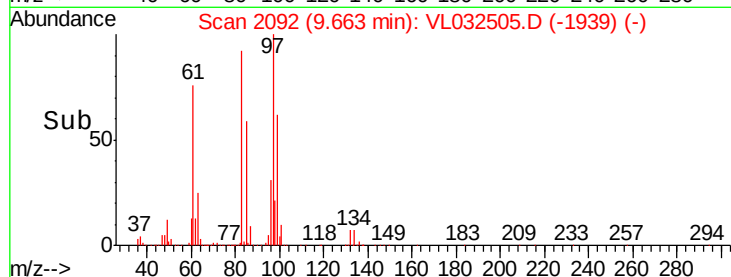
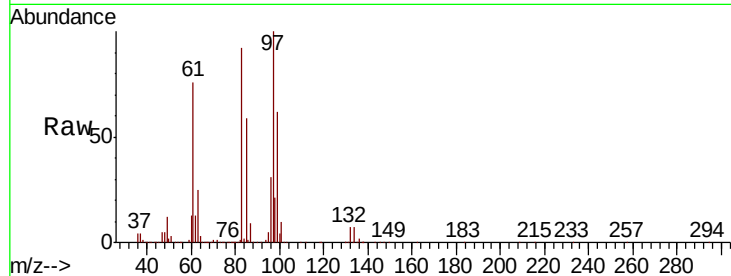
#47
 1,1,2-Trichloroethane
 Concen: 9.97 ppbv
 RT: 9.66 min Scan# 2092
 Delta R.T. -0.01 min
 Lab File: VL032505.D
 Acq: 11 Sep 2018 13:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	91.6	75.0	112.4	
85	58.5	47.5	71.3	
99	62.1	49.0	73.6	

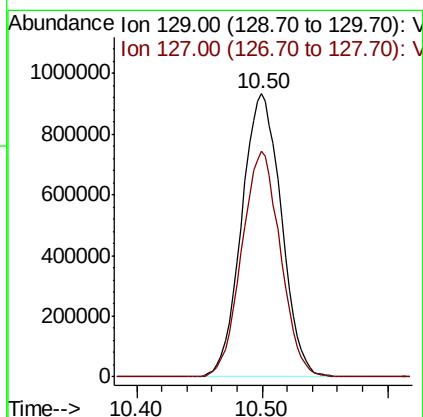
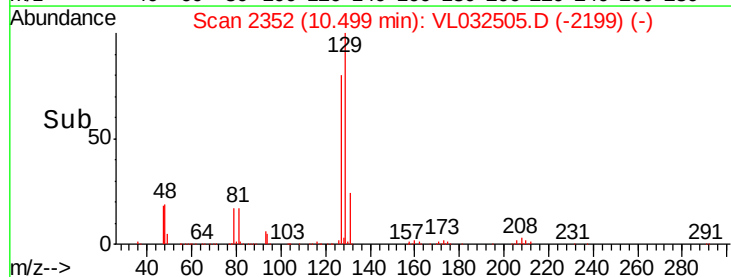
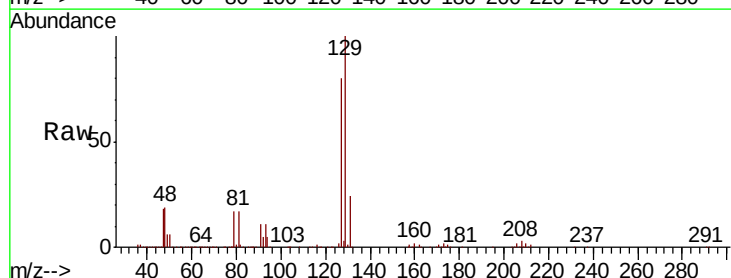
Manual Integrations
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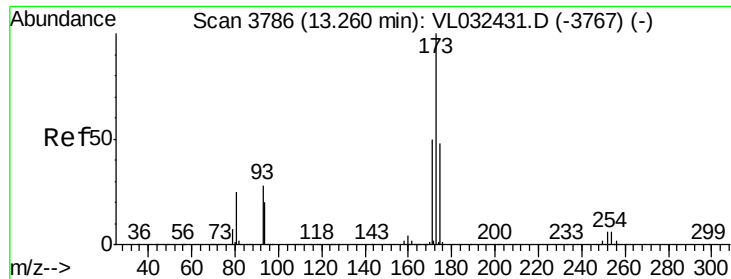
MMDadoda
 9/12/2018 3:59:56 PM



#48
 Dibromochloromethane
 Concen: 11.56 ppbv
 RT: 10.50 min Scan# 2352
 Delta R.T. -0.01 min
 Lab File: VL032505.D
 Acq: 11 Sep 2018 13:00

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.3	39.5	118.3	





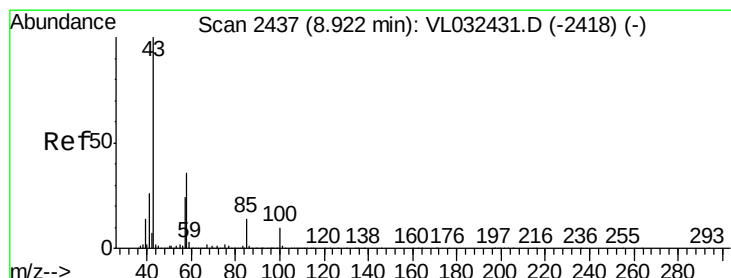
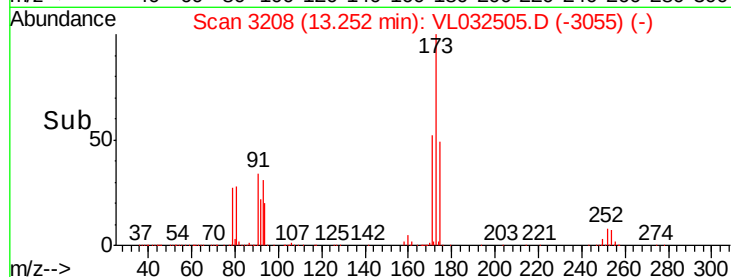
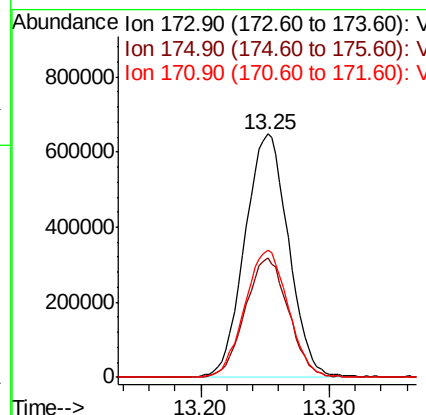
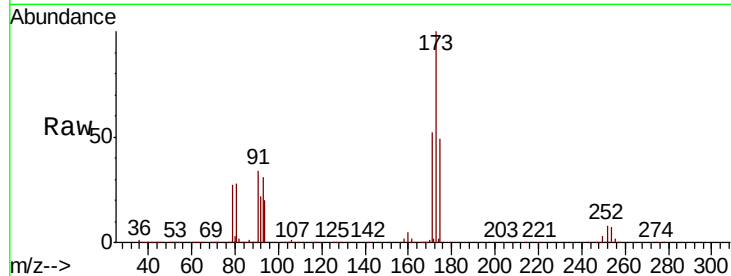
#49
Bromoform
Concen: 9.92 ppbv
RT: 13.25 min Scan# 3208
Delta R.T. -0.01 min
Lab File: VL032505.D
Acq: 11 Sep 2018 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:173 Resp: 1526845
Ion Ratio Lower Upper
173 100
175 49.0 38.9 58.3
171 52.3 41.6 62.4

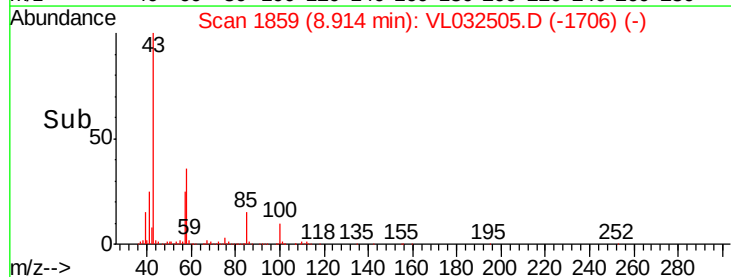
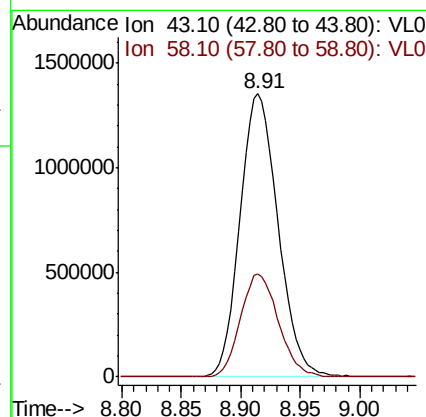
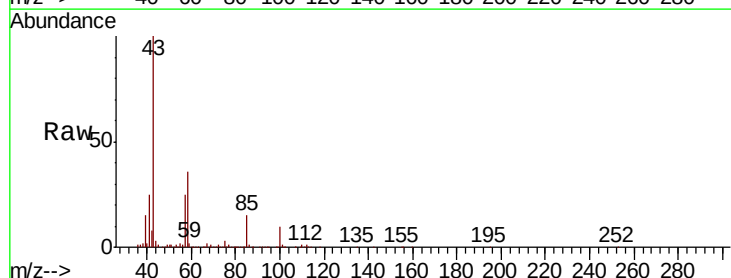
Manual Integrations
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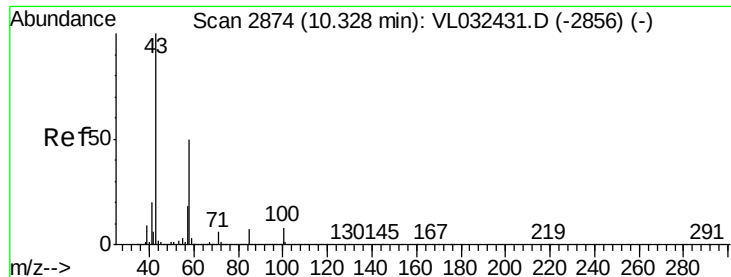
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 9.07 ppbv
RT: 8.91 min Scan# 1859
Delta R.T. -0.01 min
Lab File: VL032505.D
Acq: 11 Sep 2018 13:00

Tgt Ion: 43 Resp: 2997438
Ion Ratio Lower Upper
43 100
58 36.4 29.0 43.4





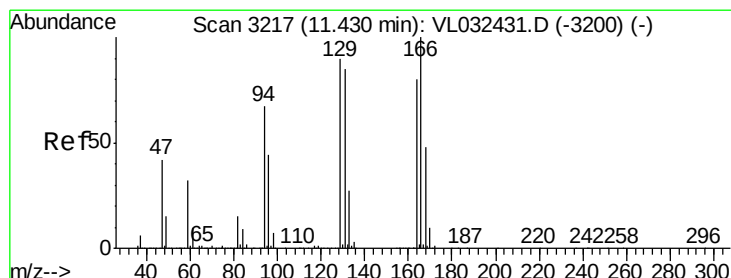
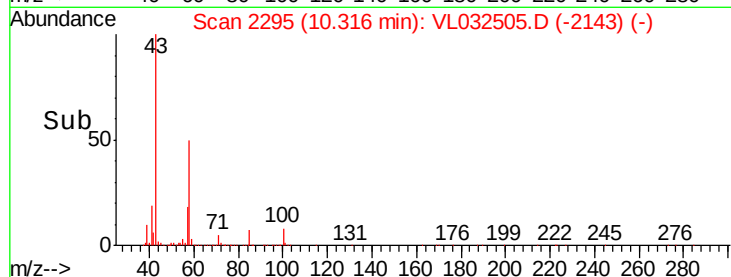
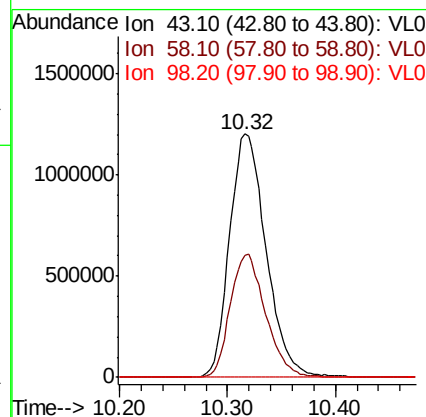
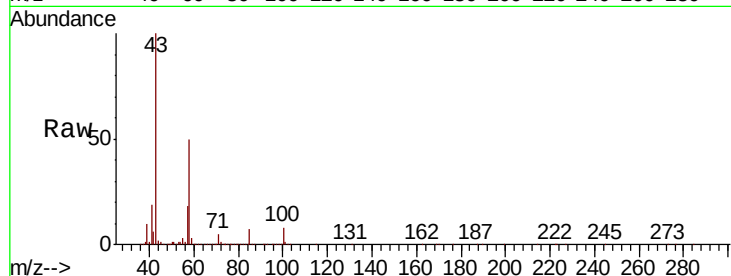
#51
2-Hexanone
Concen: 13.30 ppbv
RT: 10.32 min Scan# 2295
Delta R.T. -0.01 min
Lab File: VL032505.D
Acq: 11 Sep 2018 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
43	100		
58	49.2	39.2	58.8
98	0.4	0.4	0.6

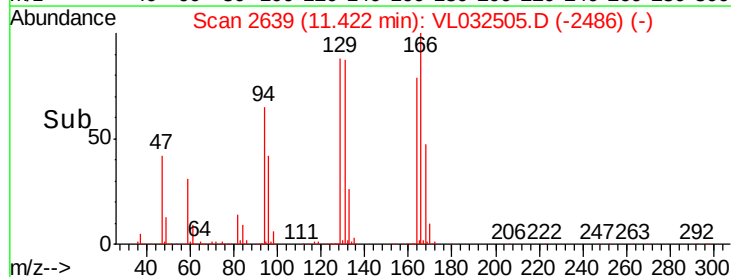
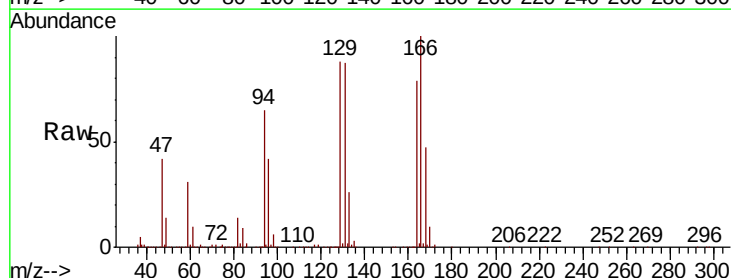
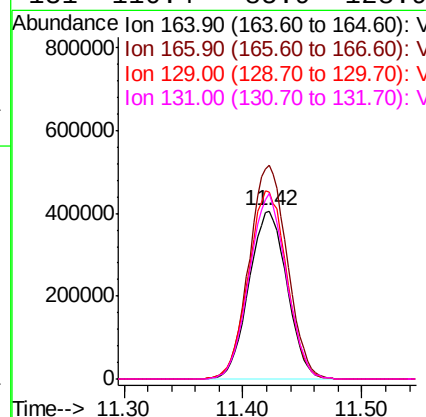
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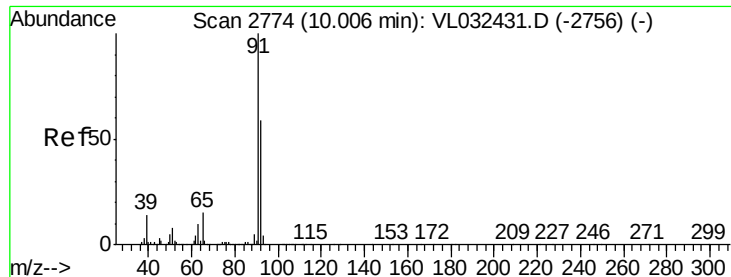
MMDadoda
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#52
Tetrachloroethene
Concen: 10.30 ppbv
RT: 11.42 min Scan# 2639
Delta R.T. -0.01 min
Lab File: VL032505.D
Acq: 11 Sep 2018 13:00

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.1	100.6	150.8
129	111.5	89.9	134.9
131	110.4	85.9	128.9





#53

Toluene

Concen: 12.26 ppbv

RT: 9.99 min Scan# 2195

Delta R.T. -0.01 min

Lab File: VL032505.D

Acq: 11 Sep 2018 13:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 3599838

Ion Ratio Lower Upper

91 100

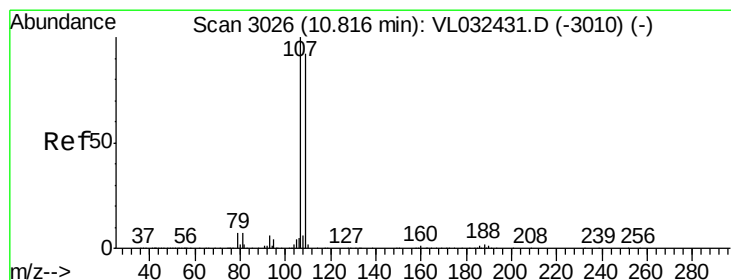
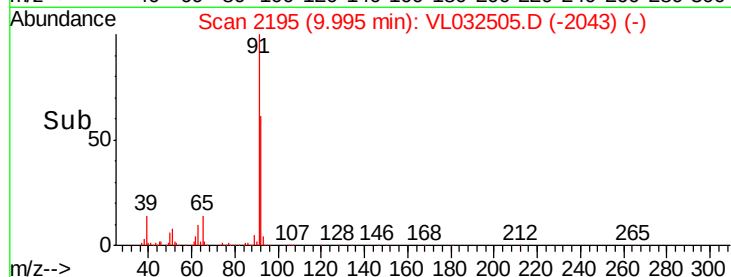
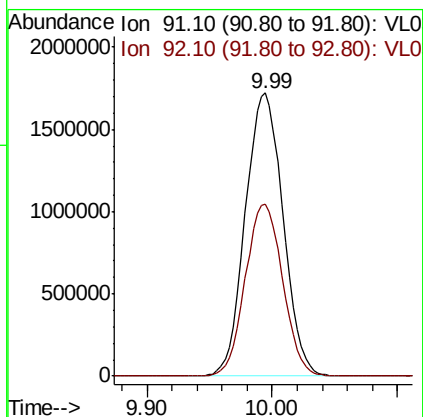
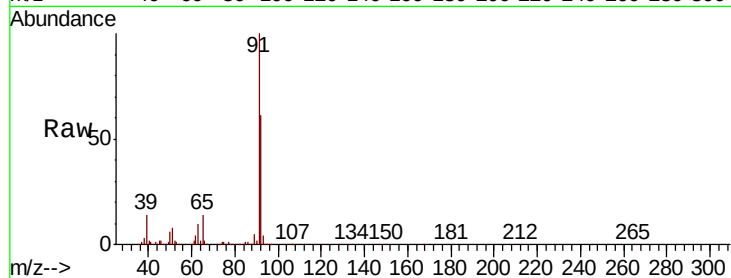
92 60.4 48.1 72.1

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#54

1,2-Dibromoethane

Concen: 10.98 ppbv

RT: 10.81 min Scan# 2448

Delta R.T. -0.01 min

Lab File: VL032505.D

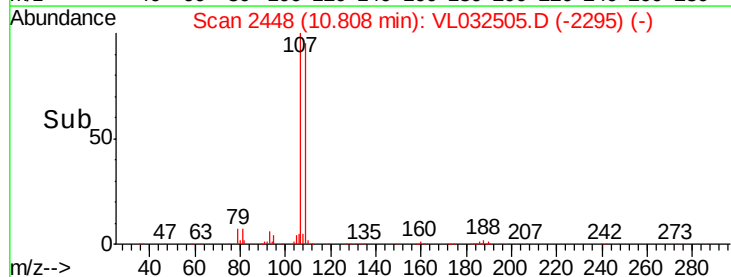
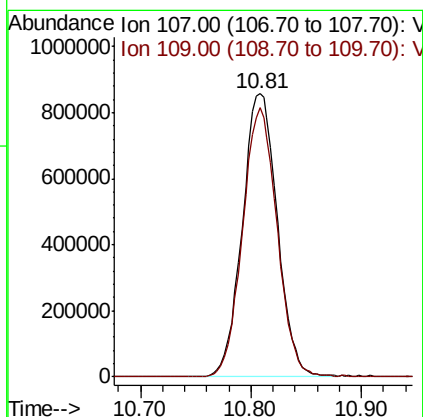
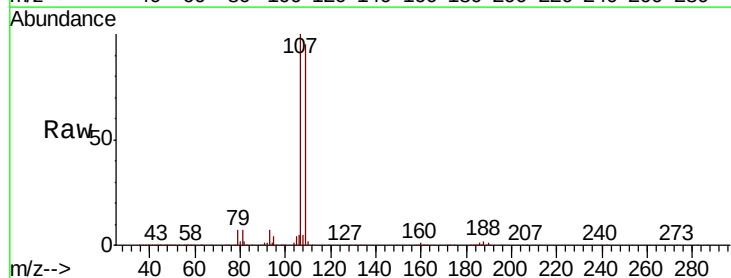
Acq: 11 Sep 2018 13:00

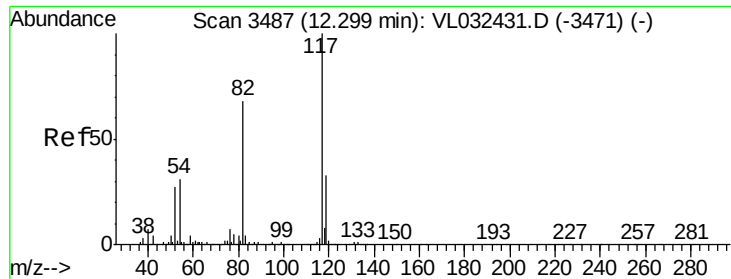
Tgt Ion: 107 Resp: 1884262

Ion Ratio Lower Upper

107 100

109 94.9 73.9 110.9





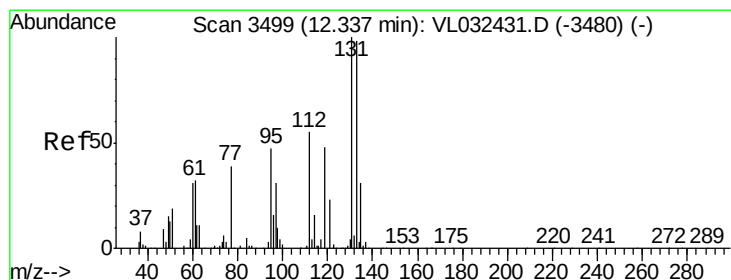
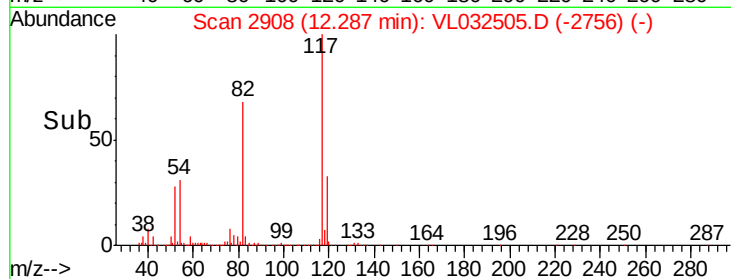
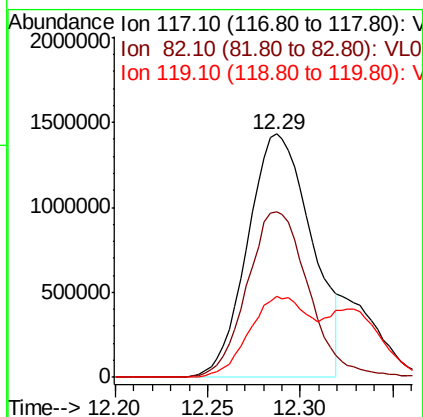
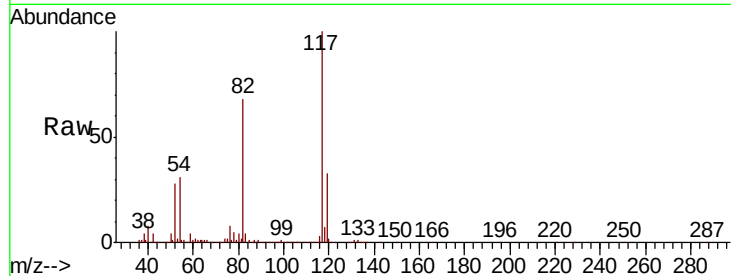
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.29 min Scan# 2908
Delta R.T. -0.01 min
Lab File: VL032505.D
Acq: 11 Sep 2018 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	66.3	53.0	79.6
119	31.3	45.9	68.9#

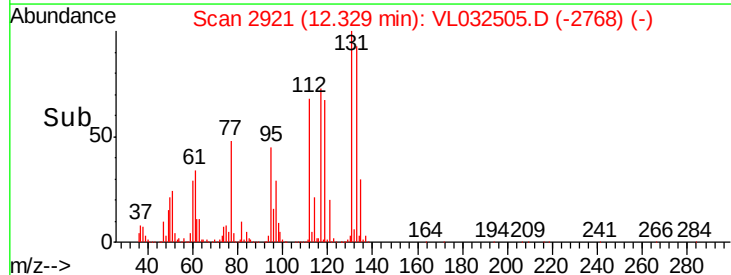
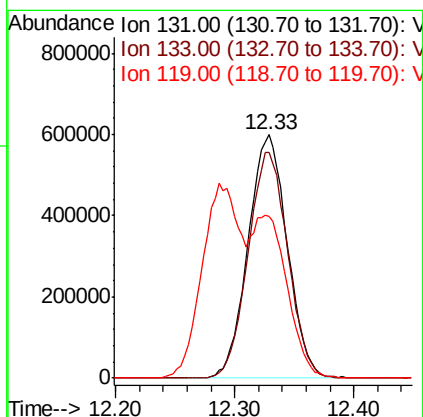
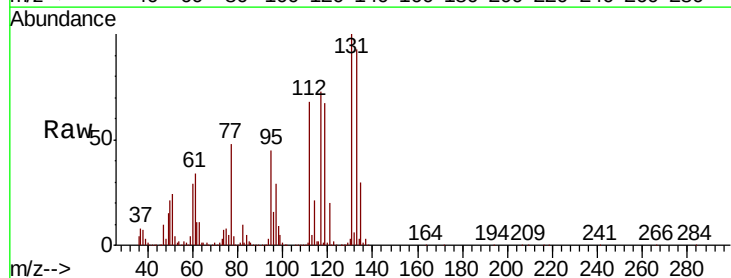
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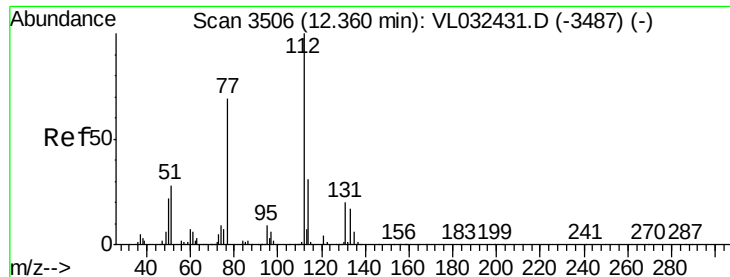
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.80 ppbv
RT: 12.33 min Scan# 2921
Delta R.T. -0.01 min
Lab File: VL032505.D
Acq: 11 Sep 2018 13:00

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.2	77.0	115.4
119	61.9	114.2	171.2#





#57

Chlorobenzene

Concen: 8.86 ppbv

RT: 12.35 min Scan# 2928

Delta R.T. -0.01 min

Lab File: VL032505.D

Acq: 11 Sep 2018 13:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 112 Resp: 2436138

Ion Ratio Lower Upper

112 100

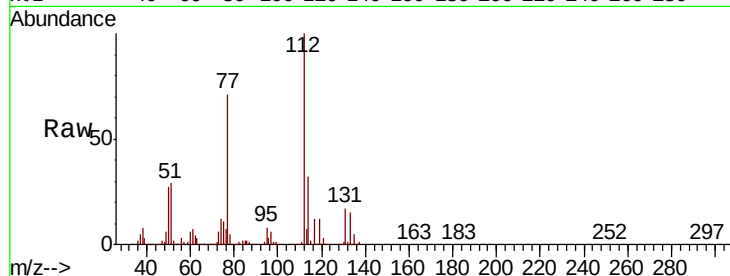
77 71.3 56.1 84.1

114 31.9 27.8 34.0

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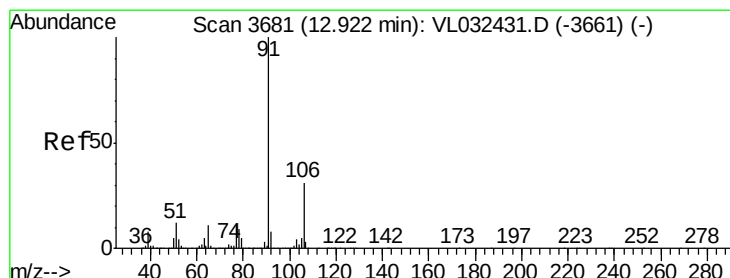
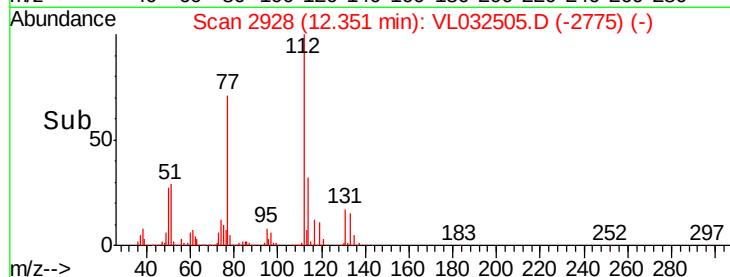
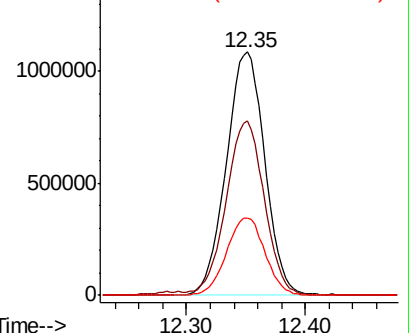
9/12/2018 3:59:56 PM



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.83 ppbv

RT: 12.91 min Scan# 3102

Delta R.T. -0.01 min

Lab File: VL032505.D

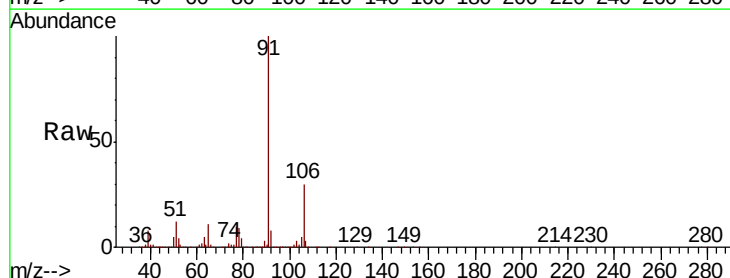
Acq: 11 Sep 2018 13:00

Tgt Ion: 91 Resp: 4455680

Ion Ratio Lower Upper

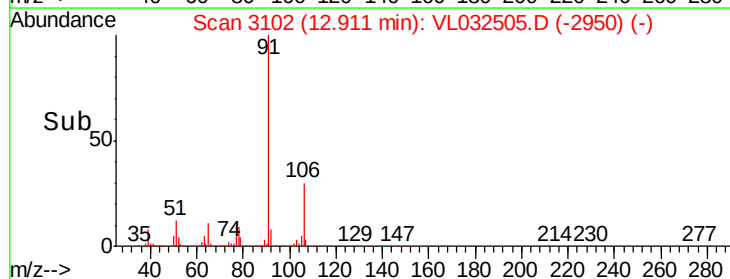
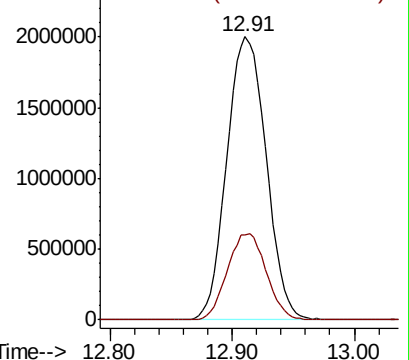
91 100

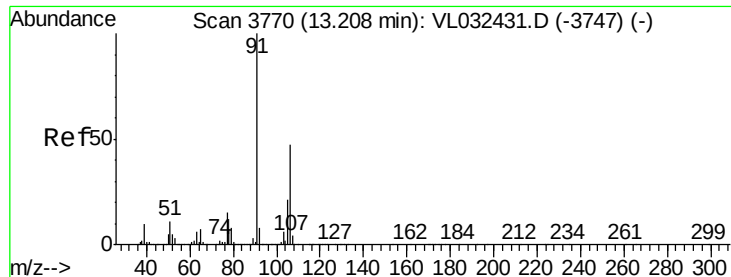
106 29.9 24.8 37.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





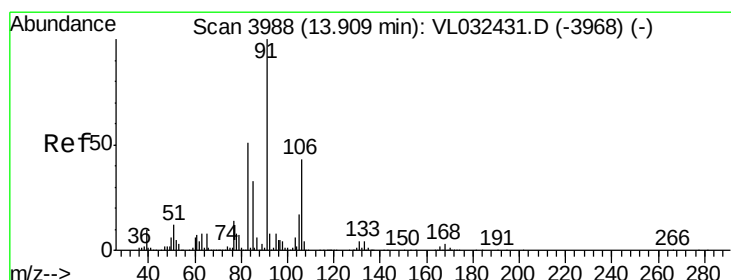
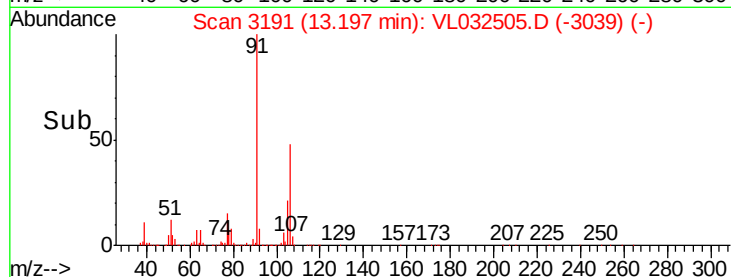
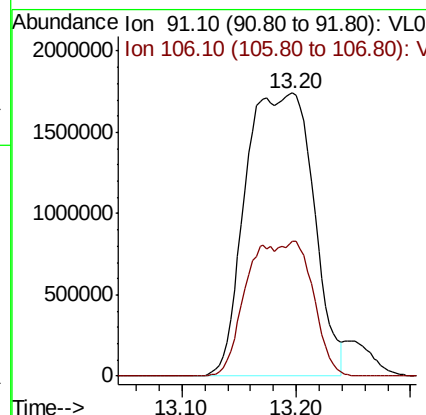
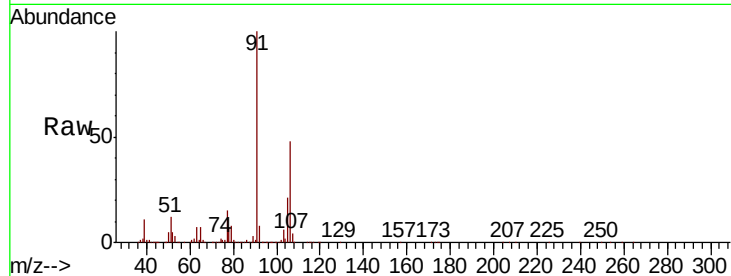
#59
m/p-Xylene
Concen: 19.52 ppbv m
RT: 13.20 min Scan# 3191
Delta R.T. -0.01 min
Lab File: VL032505.D
Acq: 11 Sep 2018 13:00

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 7160728
Ion Ratio Lower Upper
91 100
106 46.1 36.6 55.0

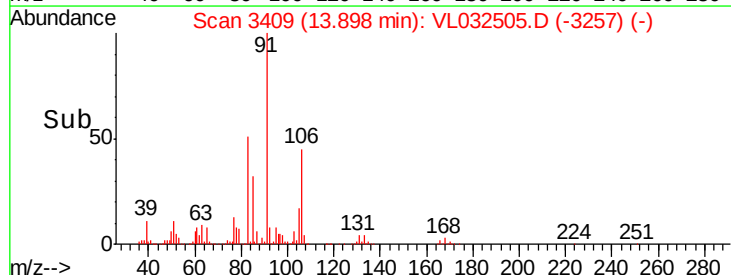
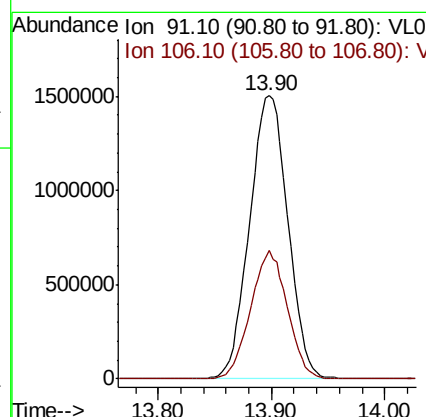
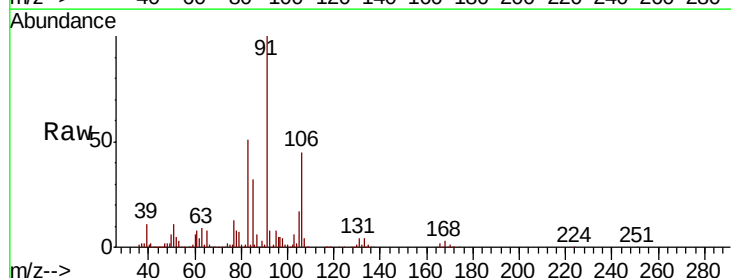
Manual Integrations
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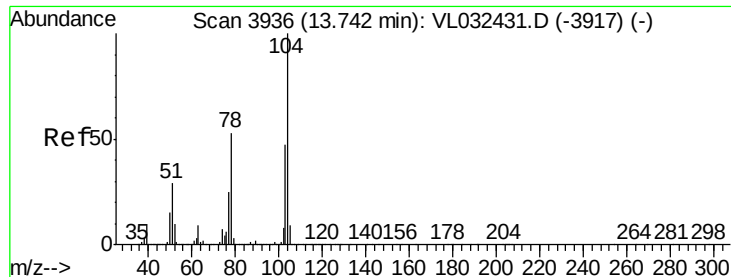
MMDadoda
9/12/2018 3:59:56 PM



#60
o-Xylene
Concen: 9.82 ppbv
RT: 13.90 min Scan# 3409
Delta R.T. -0.01 min
Lab File: VL032505.D
Acq: 11 Sep 2018 13:00

Tgt Ion: 91 Resp: 3538271
Ion Ratio Lower Upper
91 100
106 43.5 21.9 65.7





#61

Stvrene

Concen: 11.28 ppbv

RT: 13.73 min Scan# 3357

Delta R.T. -0.01 min

Lab File: VL032505.D

Acq: 11 Sep 2018 13:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 2631980

Ion Ratio Lower Upper

104 100

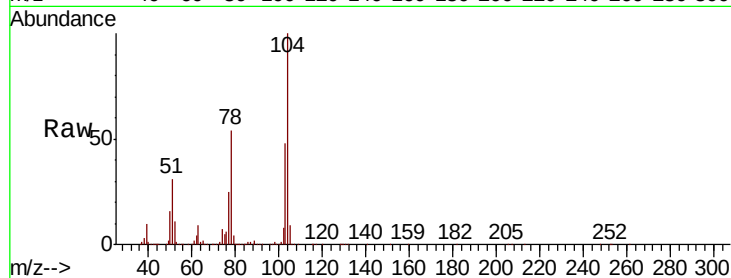
78 53.4 41.8 62.8

103 46.9 38.0 57.0

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9/12/2018 3:59:56 PM

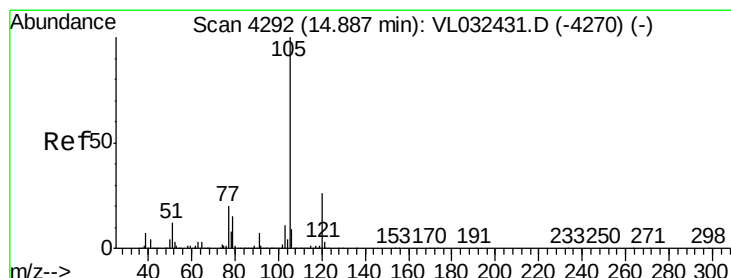
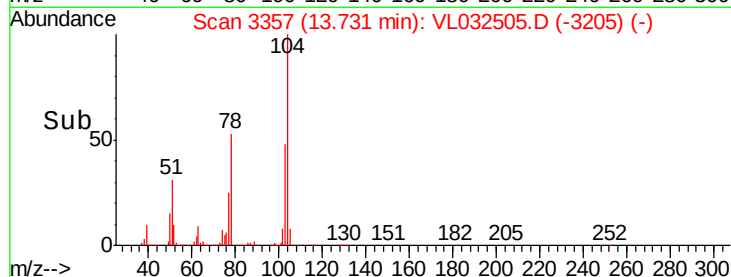
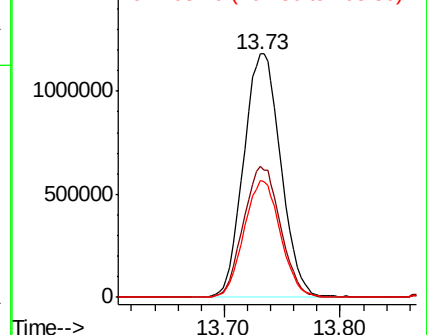


Abundance

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: 9.84 ppbv

RT: 14.88 min Scan# 3713

Delta R.T. -0.01 min

Lab File: VL032505.D

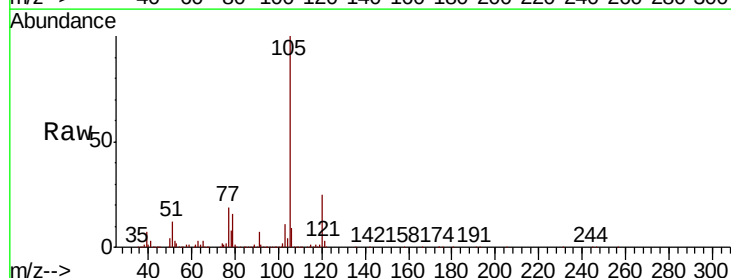
Acq: 11 Sep 2018 13:00

Tgt Ion:105 Resp: 4984919

Ion Ratio Lower Upper

105 100

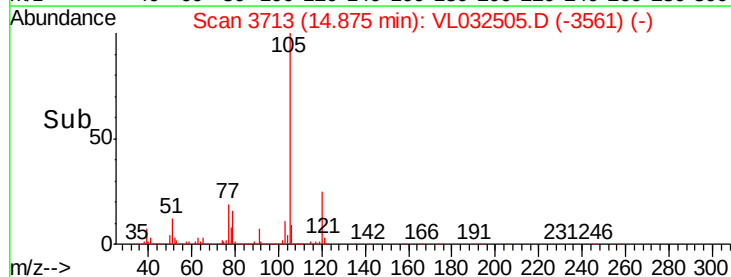
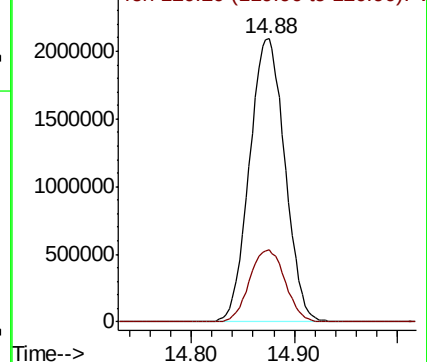
120 25.7 20.6 31.0

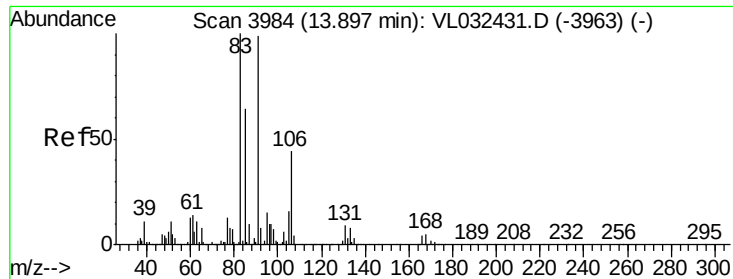


Abundance

Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





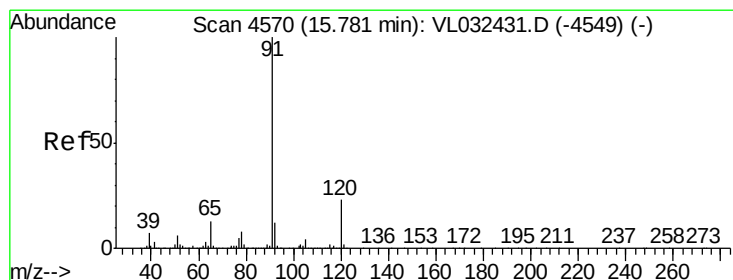
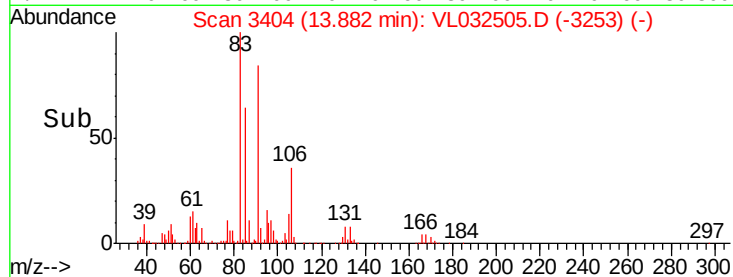
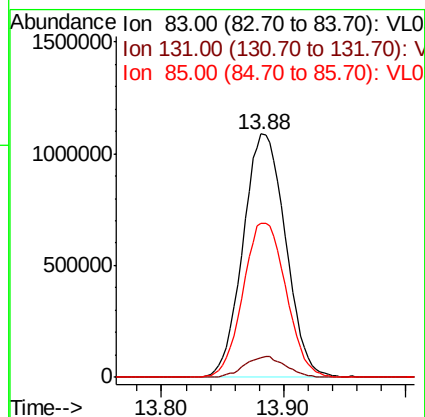
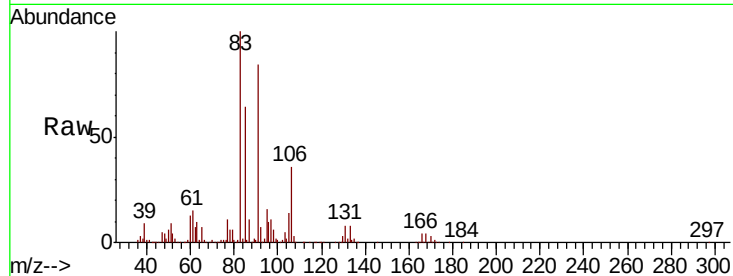
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.14 ppbv
 RT: 13.88 min Scan# 3404
 Delta R.T. -0.01 min
 Lab File: VL032505.D
 Acq: 11 Sep 2018 13:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
83	100		
131	8.4	4.3	12.8
85	64.4	32.3	96.8

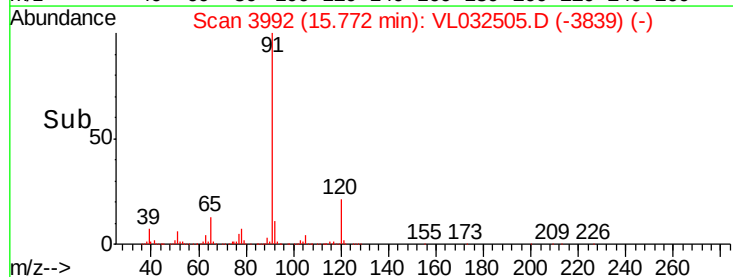
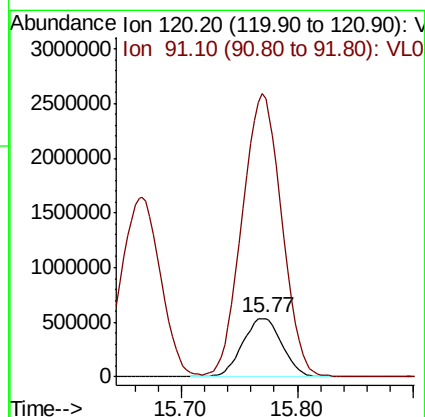
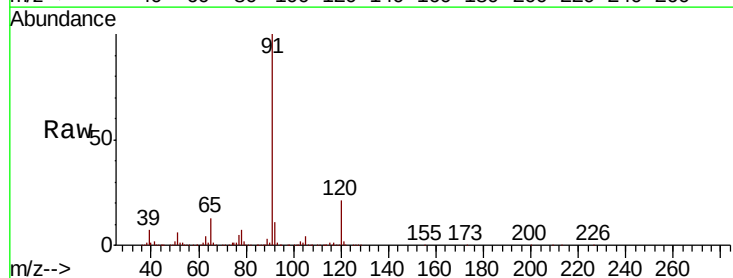
Manual Integrations
 APPROVED

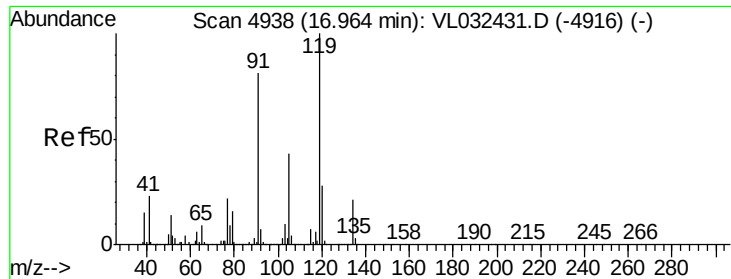
MMDadoda
 9/12/2018 3:59:56 PM



#64
 n-propylbenzene
 Concen: 9.60 ppbv
 RT: 15.77 min Scan# 3992
 Delta R.T. -0.01 min
 Lab File: VL032505.D
 Acq: 11 Sep 2018 13:00

Tgt Ion	Ratio	Lower	Upper
120	100		
91	484.5	381.8	572.6





#65

tert-Butylbenzene

Concen: 9.33 ppbv

RT: 16.96 min Scan# 4360

Delta R.T. -0.01 min

Lab File: VL032505.D

Acq: 11 Sep 2018 13:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 4074144

Ion Ratio Lower Upper

119 100

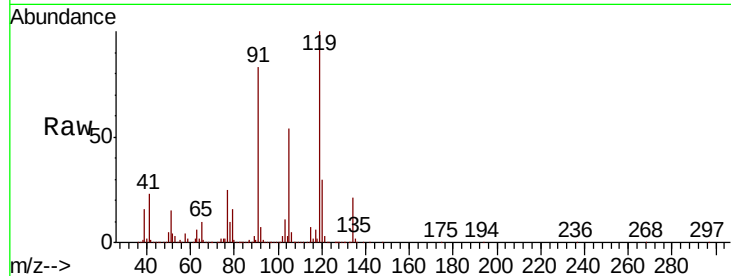
91 84.5 66.5 99.7

134 19.7 16.0 24.0

Manual Integrations
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MMDadoda

9/12/2018 3:59:56 PM

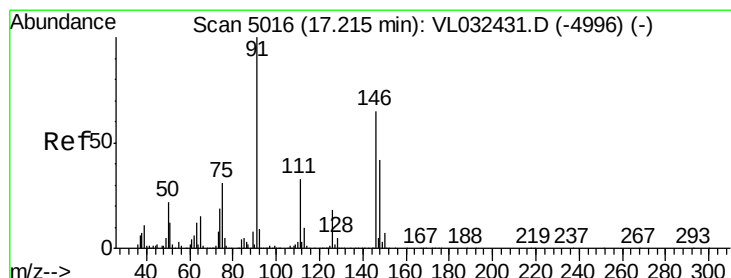
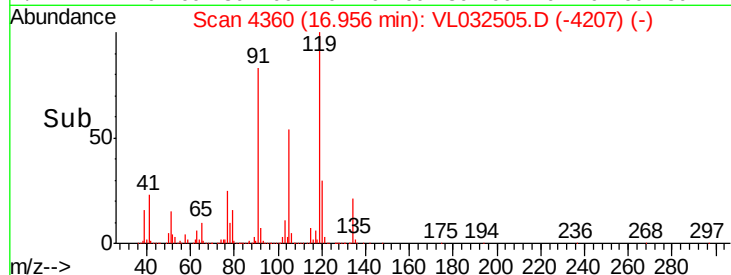
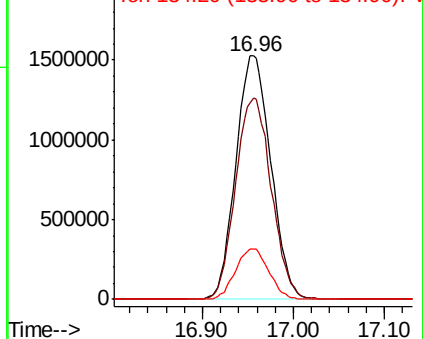


Abundance

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: 10.05 ppbv

RT: 17.20 min Scan# 4437

Delta R.T. -0.01 min

Lab File: VL032505.D

Acq: 11 Sep 2018 13:00

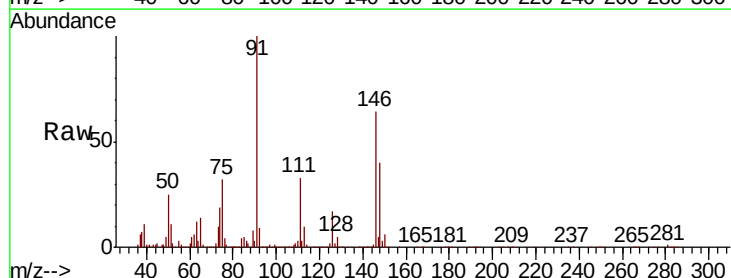
Tgt Ion: 91 Resp: 2444456

Ion Ratio Lower Upper

91 100

126 17.1 13.8 20.8

128 5.5 4.4 6.6

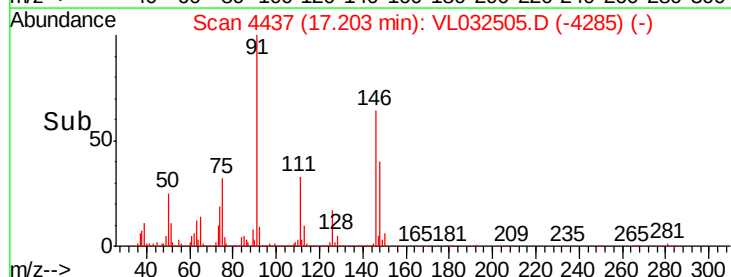
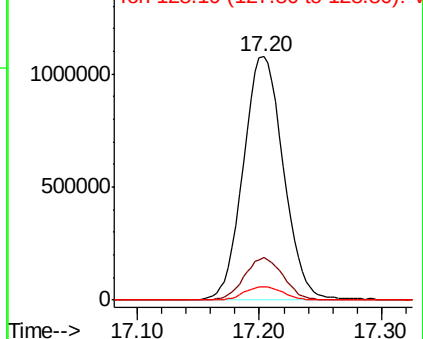


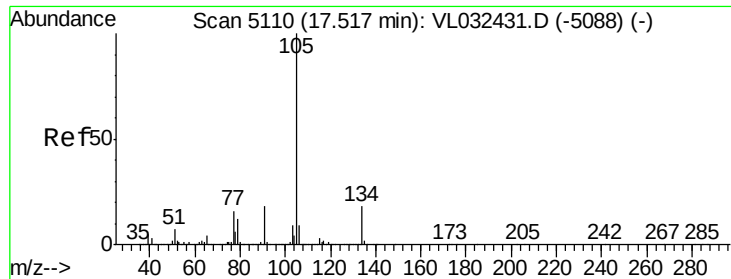
Abundance

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: 9.36 ppbv

RT: 17.51 min Scan# 4531

Delta R.T. -0.01 min

Lab File: VL032505.D

Acq: 11 Sep 2018 13:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 6147172

Ion Ratio Lower Upper

105 100

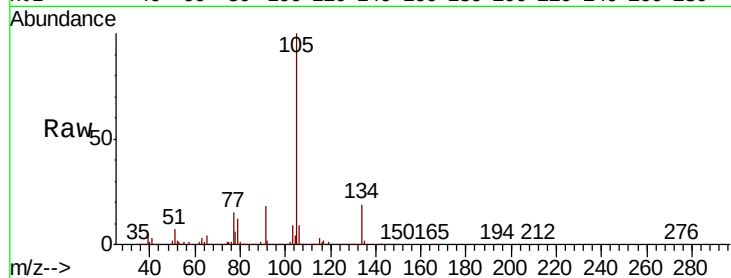
134 17.5 14.4 21.6

Manual Integrations

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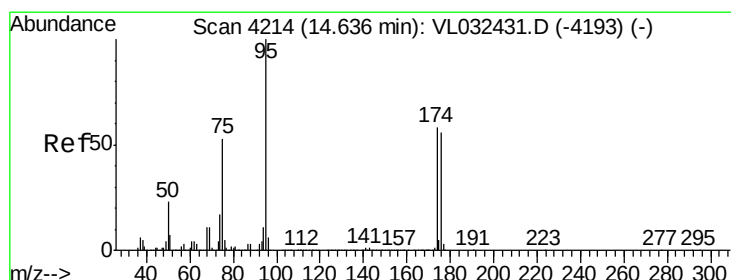
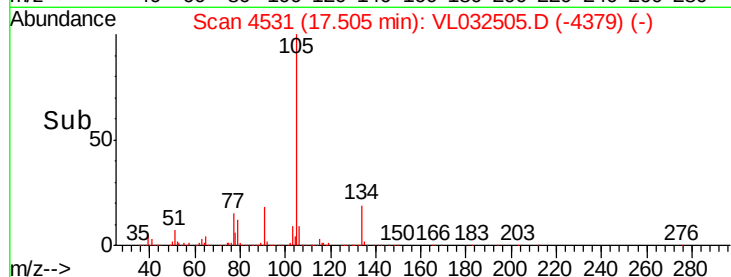
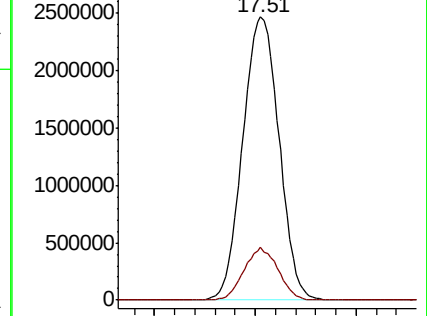
MMDadoda

9/12/2018 3:59:56 PM



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: 10.12 ppbv

RT: 14.62 min Scan# 3635

Delta R.T. -0.01 min

Lab File: VL032505.D

Acq: 11 Sep 2018 13:00

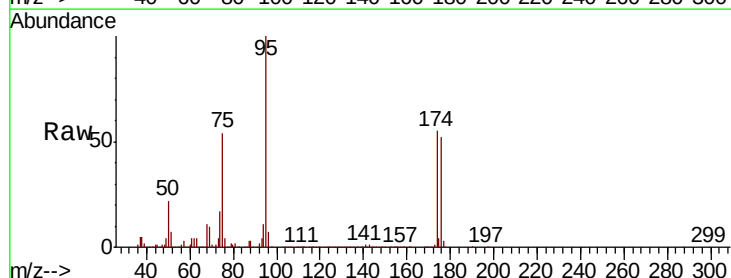
Tgt Ion: 95 Resp: 2582984

Ion Ratio Lower Upper

95 100

174 56.6 46.3 69.5

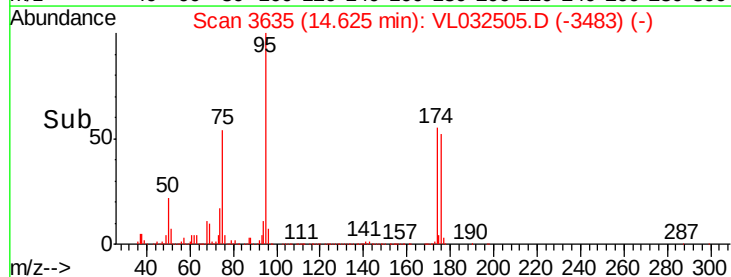
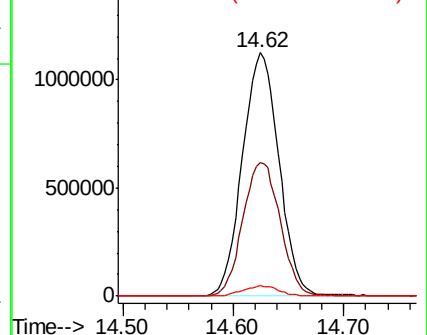
175 4.1 3.4 5.0

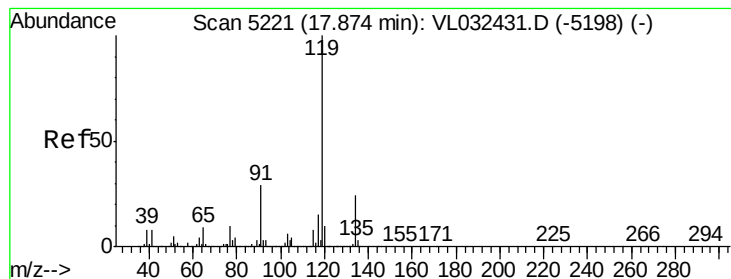


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#69

p-Isopropyltoluene

Concen: 9.49 ppbv

RT: 17.86 min Scan# 4642

Delta R.T. -0.01 min

Lab File: VL032505.D

Acq: 11 Sep 2018 13:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 119 Resp: 4827999

Ion Ratio Lower Upper

119 100

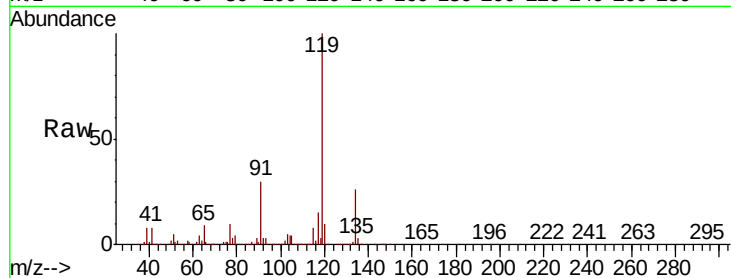
134 25.3 20.4 30.6

91 29.4 23.4 35.2

Manual Integrations
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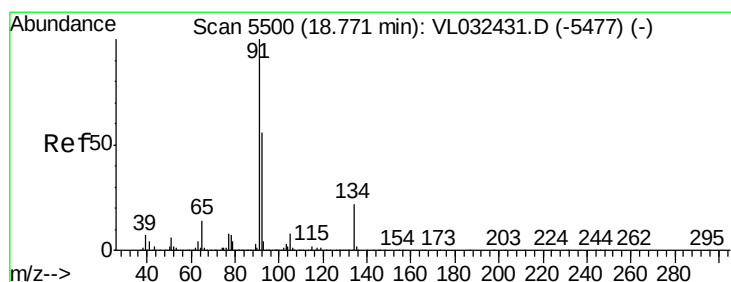
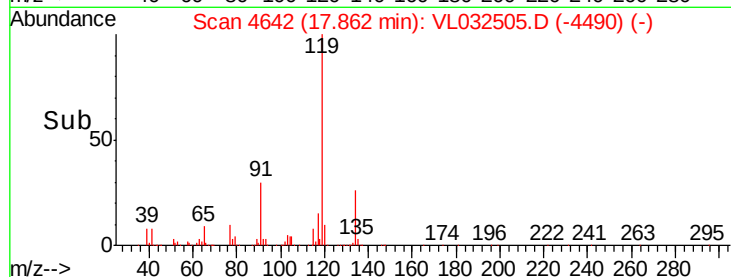
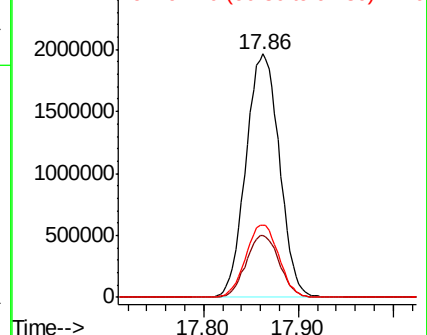


Abundance

Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70

n-Butylbenzene

Concen: 9.10 ppbv

RT: 18.76 min Scan# 4921

Delta R.T. -0.01 min

Lab File: VL032505.D

Acq: 11 Sep 2018 13:00

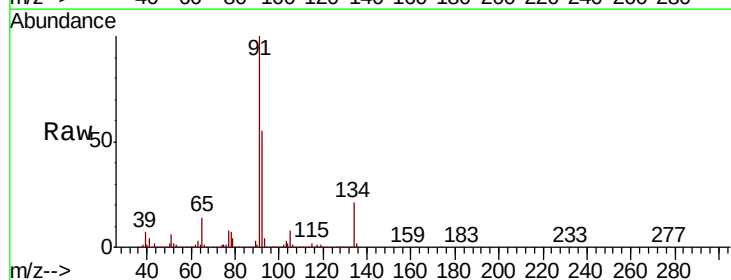
Tgt Ion: 91 Resp: 5250053

Ion Ratio Lower Upper

91 100

92 54.1 43.8 65.8

134 21.2 17.4 26.0

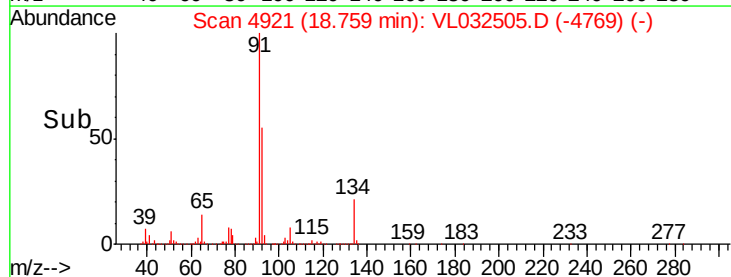
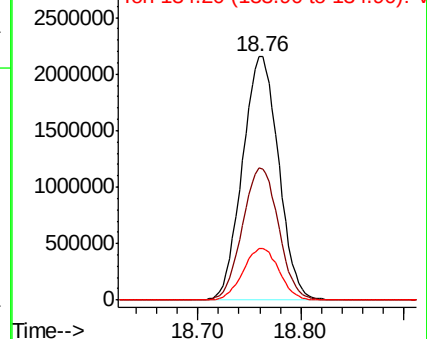


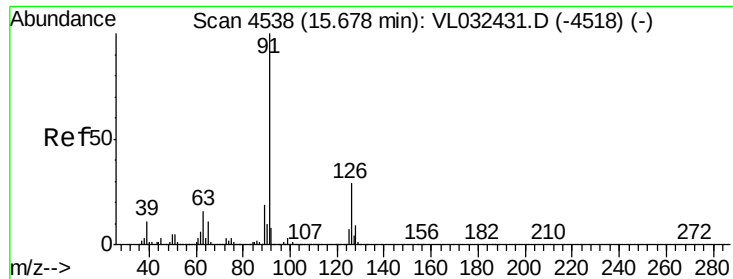
Abundance

Ion 91.10 (90.80 to 91.80): V

Ion 92.10 (91.80 to 92.80): V

Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 10.02 ppbv

RT: 15.67 min Scan# 3959

Delta R.T. -0.01 min

Lab File: VL032505.D

Acq: 11 Sep 2018 13:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 3877279

Ion Ratio Lower Upper

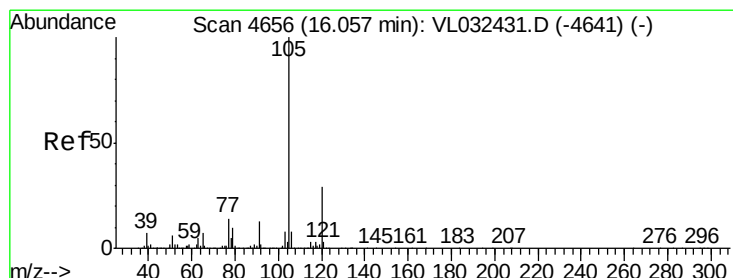
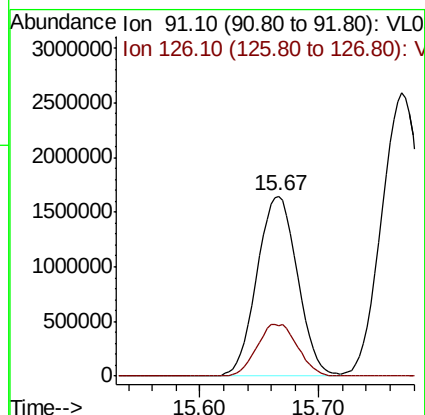
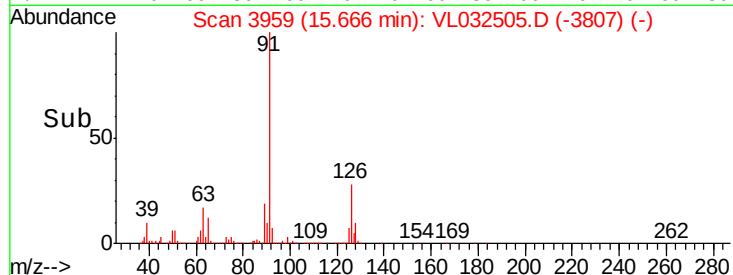
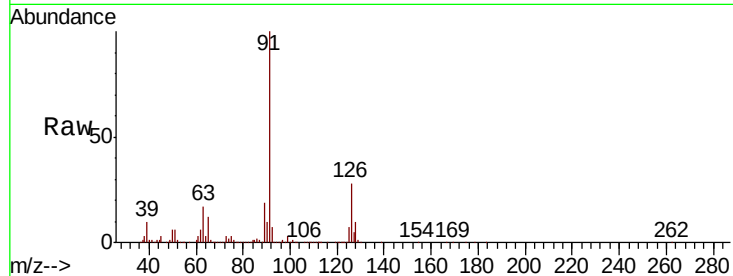
91 100

126 29.1 11.9 47.7

Manual Integrations
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#72

4-Ethyltoluene

Concen: 10.36 ppbv

RT: 16.05 min Scan# 4078

Delta R.T. -0.01 min

Lab File: VL032505.D

Acq: 11 Sep 2018 13:00

Tgt Ion: 105 Resp: 4076002

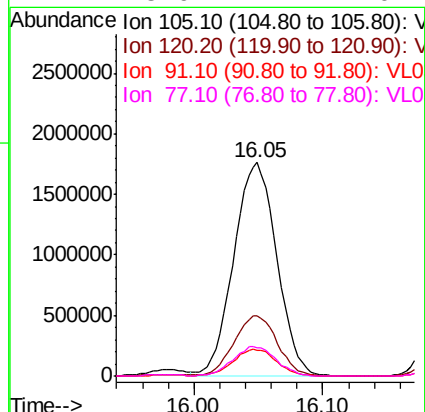
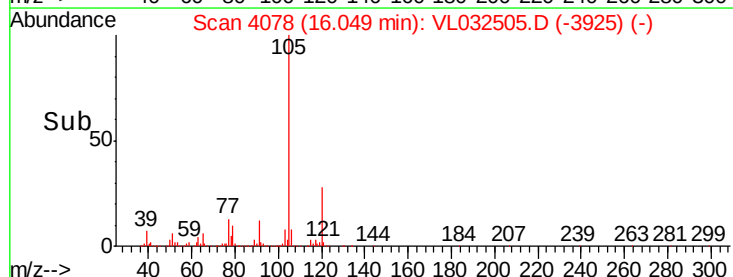
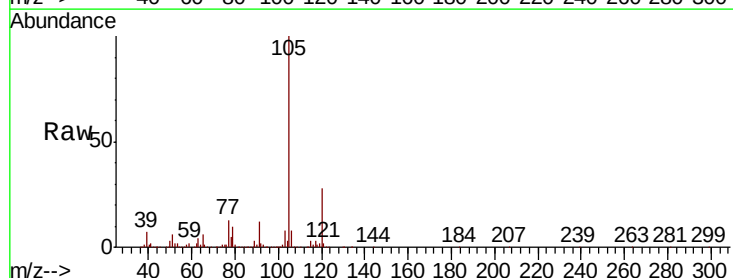
Ion Ratio Lower Upper

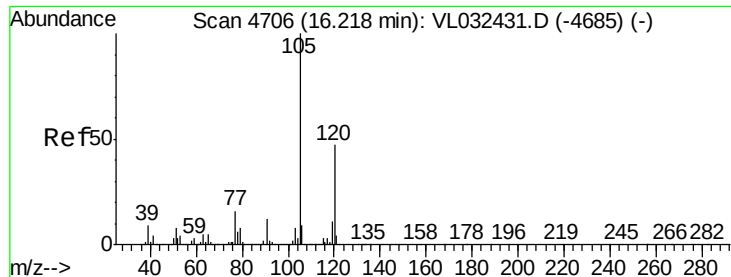
105 100

120 28.5 23.5 35.3

91 12.5 10.2 15.2

77 13.9 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 9.77 ppbv

RT: 16.21 min Scan# 4127

Delta R.T. -0.01 min

Lab File: VL032505.D

Acq: 11 Sep 2018 13:00

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 3849955

Ion Ratio Lower Upper

105 100

120 45.2

37.9

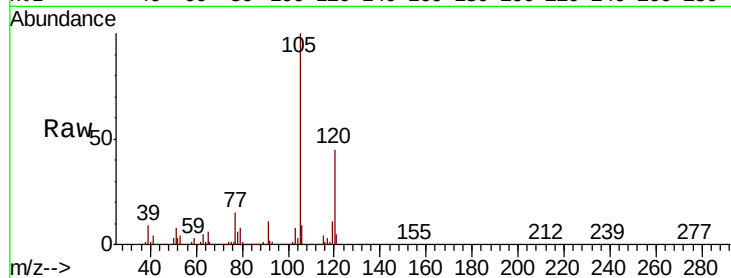
56.9

Manual Integrations

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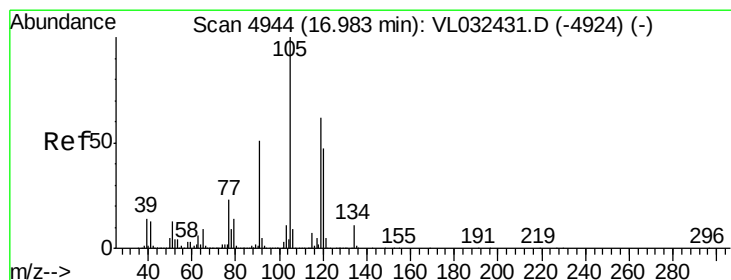
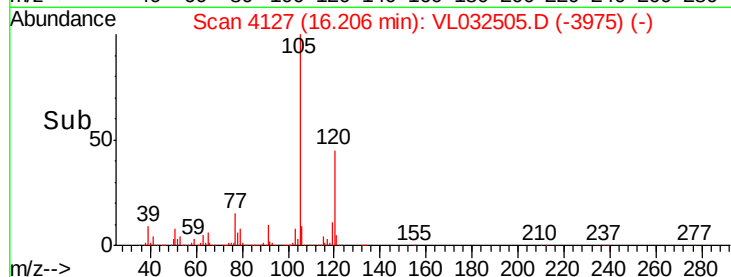
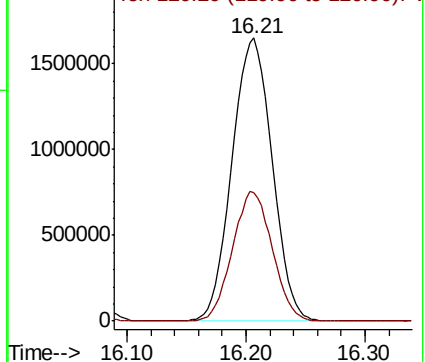
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 8.83 ppbv

RT: 16.97 min Scan# 4366

Delta R.T. -0.01 min

Lab File: VL032505.D

Acq: 11 Sep 2018 13:00

Tgt Ion:105 Resp: 3804617

Ion Ratio Lower Upper

105 100

120 46.3

37.8

56.8

91 43.3

41.4

62.0

77 21.8

18.6

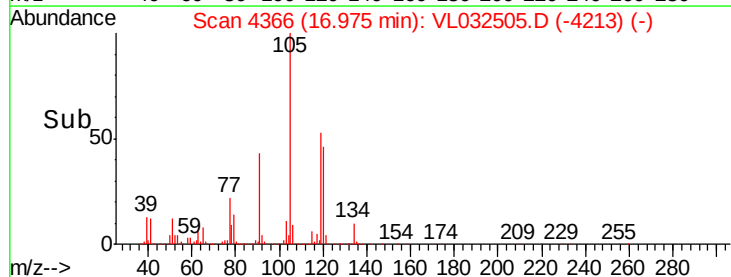
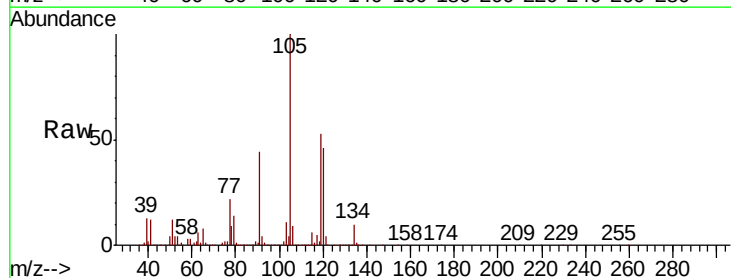
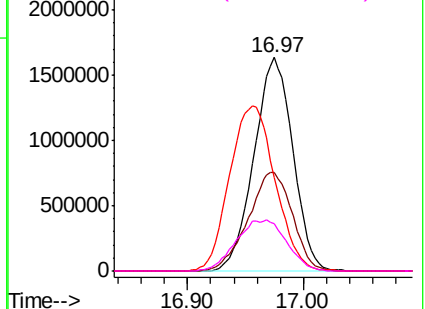
28.0

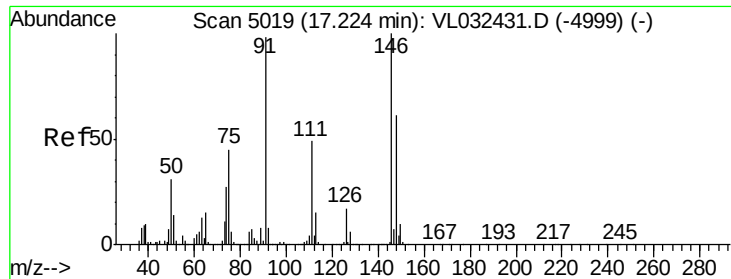
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





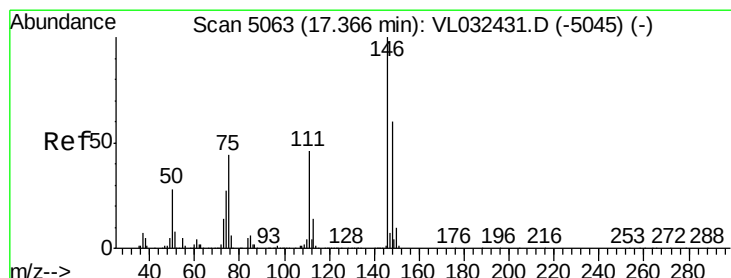
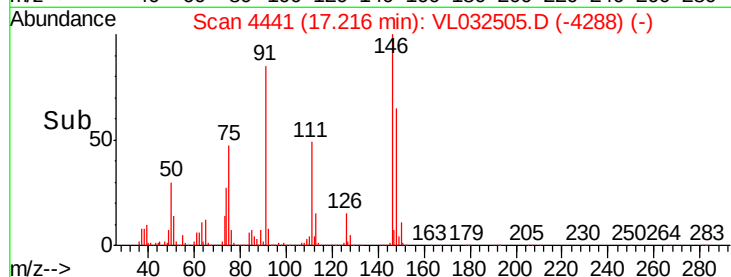
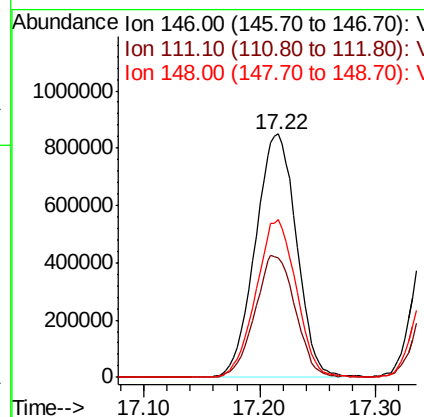
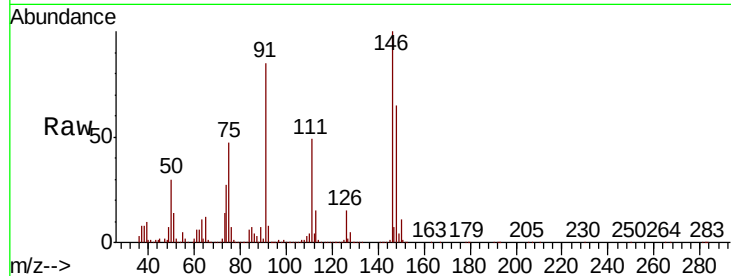
#75
 1,3-Dichlorobenzene
 Concen: 8.17 ppbv
 RT: 17.22 min Scan# 4441
 Delta R.T. -0.01 min
 Lab File: VL032505.D
 Acq: 11 Sep 2018 13:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 2089842
 Ion Ratio Lower Upper
 146 100
 111 49.4 24.5 73.5
 148 63.5 32.0 96.2

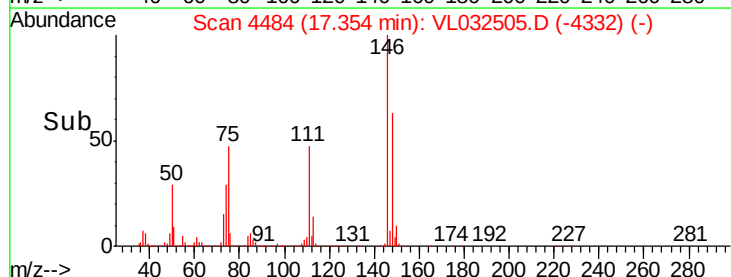
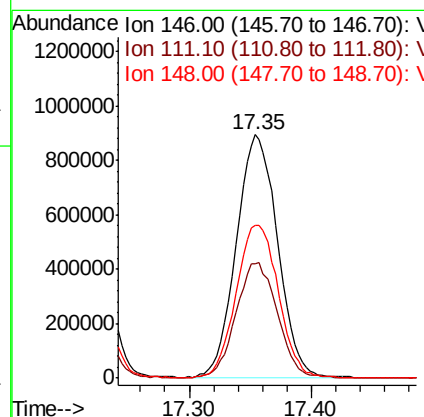
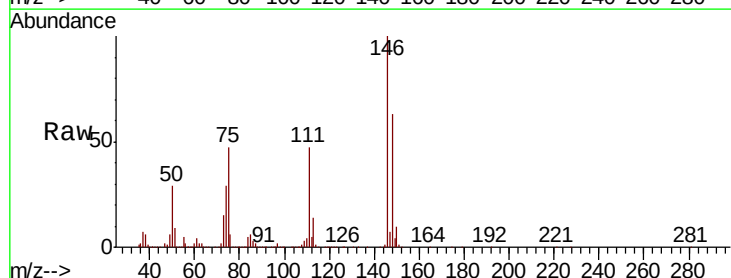
Manual Integrations
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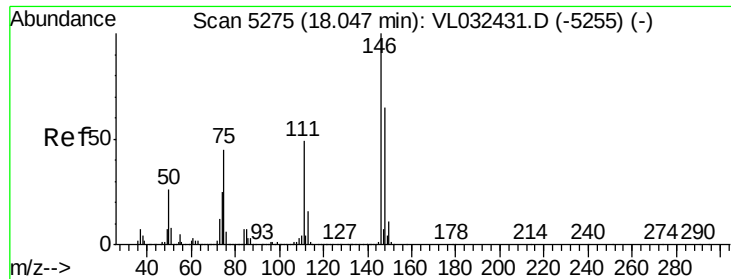
MMDadoda
 9/12/2018 3:59:56 PM



#76
 1,4-Dichlorobenzene
 Concen: 8.75 ppbv
 RT: 17.35 min Scan# 4484
 Delta R.T. -0.01 min
 Lab File: VL032505.D
 Acq: 11 Sep 2018 13:00

Tgt Ion:146 Resp: 2076489
 Ion Ratio Lower Upper
 146 100
 111 48.3 23.4 70.2
 148 65.0 32.0 96.2





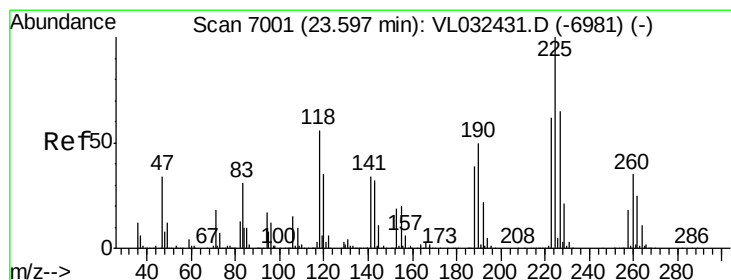
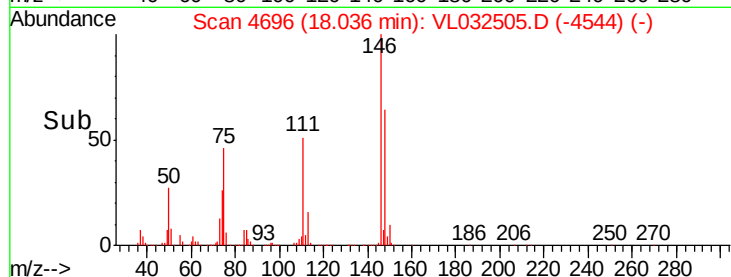
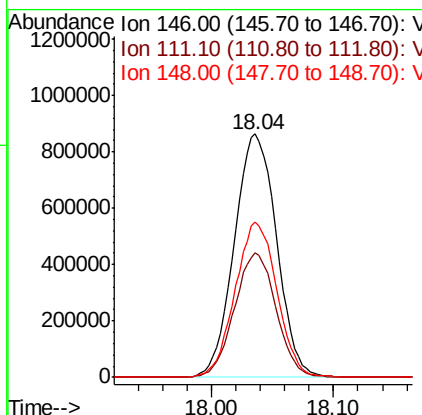
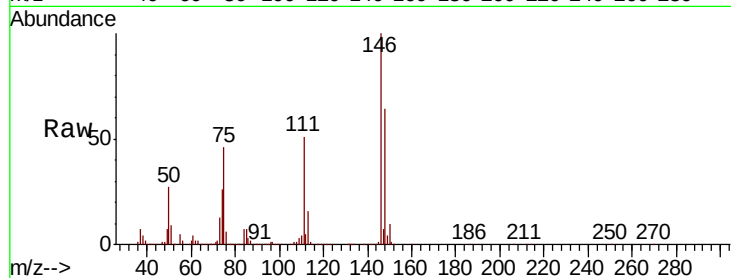
#77
 1,2-Dichlorobenzene
 Concen: 8.34 ppbv
 RT: 18.04 min Scan# 4696
 Delta R.T. -0.01 min
 Lab File: VL032505.D
 Acq: 11 Sep 2018 13:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.8	24.9	74.8
148	63.6	32.0	96.0

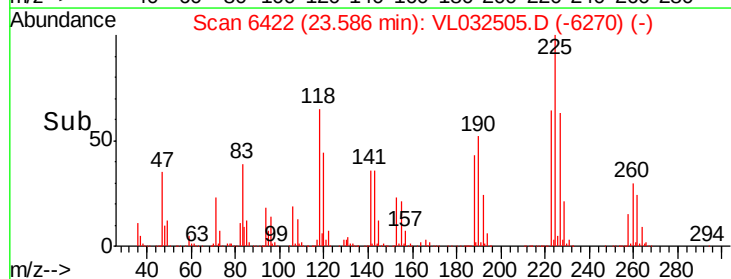
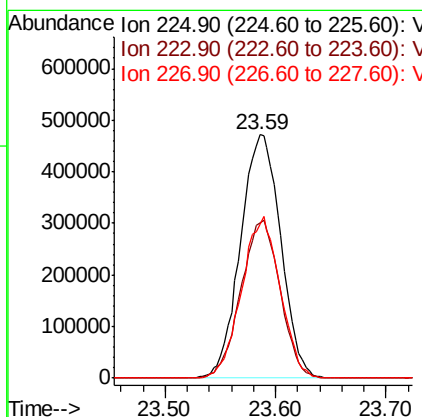
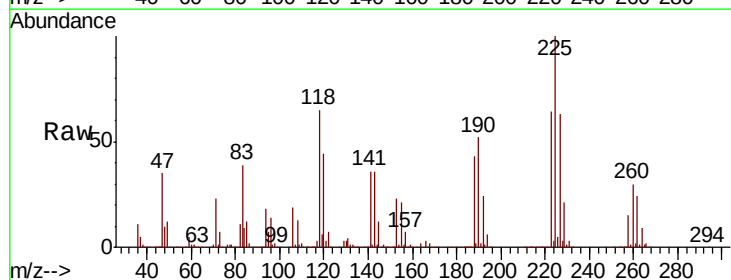
Manual Integrations
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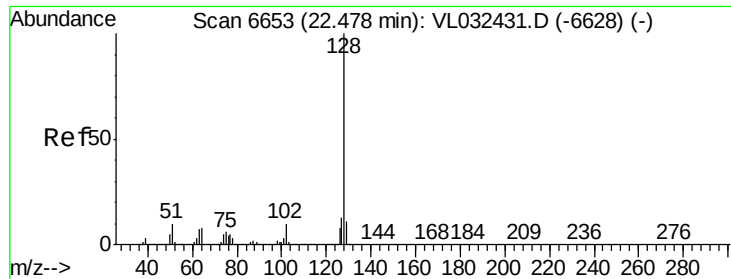
MMDadoda
 9/12/2018 3:59:56 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 12.92 ppbv
 RT: 23.59 min Scan# 6422
 Delta R.T. -0.01 min
 Lab File: VL032505.D
 Acq: 11 Sep 2018 13:00

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.2	50.6	76.0
227	63.5	51.2	76.8





#79

Naphthalene

Concen: 9.16 ppbv

RT: 22.46 min Scan# 6073

Delta R.T. -0.01 min

Lab File: VL032505.D

Acq: 11 Sep 2018 13:00

Instrument :

MSVOA_L

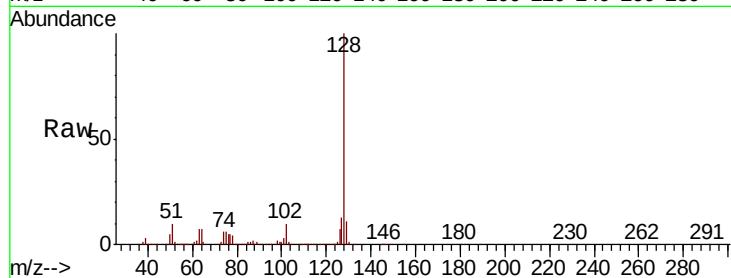
ClientSampleId :

VSTDCCC010EC

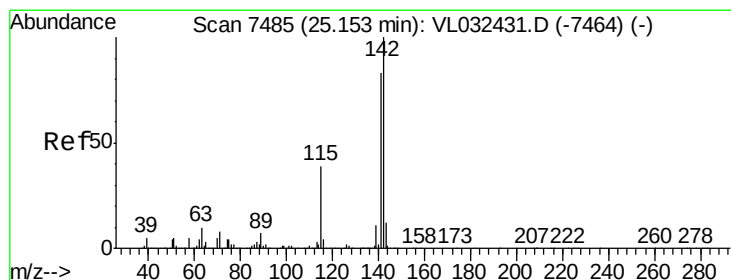
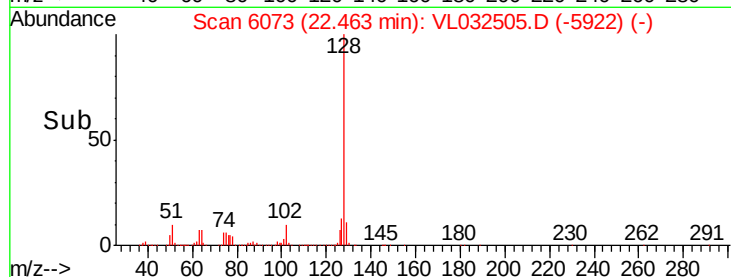
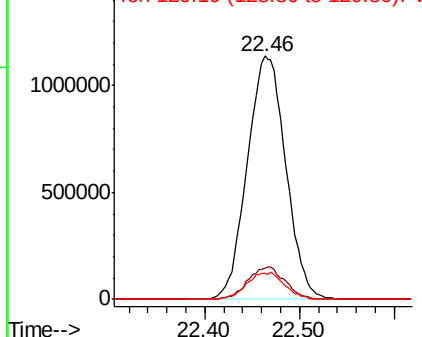
Tot	Ion:128	Resp:	3210867
Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.2	15.2
129	10.9	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
9/12/2018 3:59:56 PM



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: 11.06 ppbv

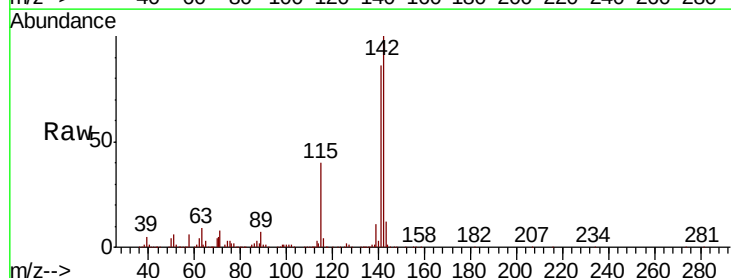
RT: 25.15 min Scan# 6908

Delta R.T. -0.01 min

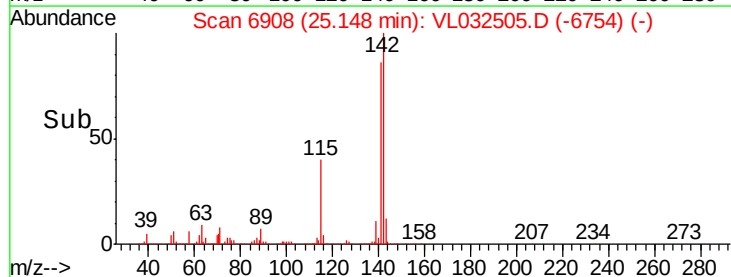
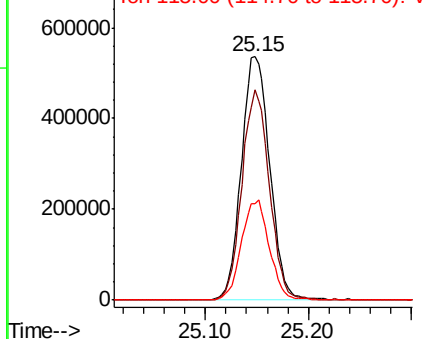
Lab File: VL032505.D

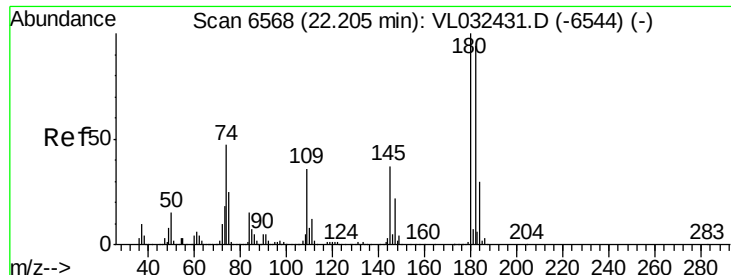
Acq: 11 Sep 2018 13:00

Tgt Ion:142	Resp: 1031510
Ion Ratio	Lower Upper
142 100	
141 83.5	67.0 100.6
115 40.4	31.3 46.9



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





#81
 1,2,4-Trichlorobenzene
 Concen: 8.54 ppbv
 RT: 22.19 min Scan# 5988
 Delta R.T. -0.01 min
 Lab File: VL032505.D
 Acq: 11 Sep 2018 13:00

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.8	76.1	114.1
184	30.2	23.8	35.8

Manual Integrations
 APPROVED

MMDadoda
 9/12/2018 3:59:56 PM

