

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052219\
 Data File : VL033742.D
 Acq On : 22 May 2019 12:49
 Operator : SY/AP
 Sample : VL0522ABS01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0522ABS01DUP

Manual Integrations
 APPROVED

MMDadoda
 5/28/2019 2:50:42 AM

Quant Time: May 23 04:48:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri May 1
 QLast Update : Fri May 17 08:15:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1044526	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2457484	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2767999m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2089653	9.31	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.10%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	1647761	7.485	ppbv 100
3) Chlorodifluoromethane	3.01	51	1149295	9.606	ppbv 100
4) Chloromethane	3.17	50	667528	9.754	ppbv 100
5) Vinyl Chloride	3.29	62	677441	9.718	ppbv 95
6) Bromomethane	3.51	94	426247	10.021	ppbv 93
7) Chloroethane	3.60	64	251878	10.167	ppbv 98
8) Dichlorotetrafluoroethane	3.22	85	1721278	9.699	ppbv 100
9) Propene	3.03	41	513712	10.094	ppbv 99
10) Heptane	8.24	43	1352484	9.385	ppbv 100
11) Trichlorofluoromethane	4.00	101	2032888	9.676	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.54	101	1371092	9.345	ppbv 100
13) Ethanol	3.65	45	98347	5.979	ppbv 100
14) Bromoethene	3.78	108	567273	10.518	ppbv 99
15) Acetone	3.89	43	1270817	8.769	ppbv 100
16) 1,3-Butadiene	3.36	39	602314	10.437	ppbv 100
17) tert-Butyl alcohol	4.35	59	1199978	10.240	ppbv 100
18) 1,1-Dichloroethene	4.35	96	619486	10.004	ppbv 98
19) Isopropyl Alcohol	4.02	45	855969	9.160	ppbv 100
20) Methylene Chloride	4.40	84	524253	9.395	ppbv 98
21) Allyl Chloride	4.47	41	901927	9.978	ppbv 99
22) trans-1,2-Dichloroethene	4.96	96	635464	10.012	ppbv 94
23) Vinyl Acetate	5.15	43	1967908	10.299	ppbv 99
24) 1,1-Dichloroethane	5.08	63	1391862	9.582	ppbv 99
25) Ethyl Acetate	5.76	43	2375757	9.332	ppbv 100
26) Hexane	5.77	57	1040276	9.505	ppbv 99
27) Carbon Disulfide	4.62	76	1557448	10.372	ppbv 100
28) Methyl tert-Butyl Ether	5.10	73	1822122	10.213	ppbv 99
29) Chloroform	5.84	83	1787544	8.867	ppbv 100
30) Cyclohexane	7.24	84	878610	9.549	ppbv 99
31) cis-1,2-Dichloroethene	5.63	61	1085908	10.007	ppbv 98
32) 1,1,1-Trichloroethane	6.61	97	1833856	9.110	ppbv 100
34) 2-Butanone	5.32	43	1573311	10.329	ppbv 100
35) Carbon Tetrachloride	7.13	117	1950413	9.908	ppbv 99
36) Benzene	7.00	78	2175061	9.730	ppbv 99
37) 1,2-Dichloroethane	6.41	62	1372698	9.519	ppbv 100
38) Trichloroethene	7.95	130	894083	10.779	ppbv 98
39) 1,2-Dichloropropane	7.73	63	812395	9.747	ppbv 97
40) 1,4-Dioxane	7.95	88	296745	8.511	ppbv # 95
41) Tetrahydrofuran	6.14	42	872426	10.222	ppbv 100
42) Bromodichloromethane	7.91	83	1956999	9.913	ppbv 98
43) Methyl Methacrylate	8.13	69	875194	10.638	ppbv 98

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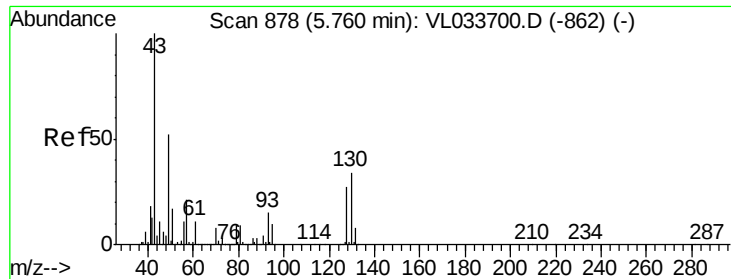
MMDadoda
 5/28/2019 2:50:42 AM

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL051719AIR.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.98	57	3648560	9.657	ppbv	100
45) t-1,3-Dichloropropene	9.41	75	1214615	11.646	ppbv	97
46) cis-1,3-Dichloropropene	8.83	75	1345265	11.016	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	929230	9.814	ppbv	98
48) Dibromochloromethane	10.44	129	1711289	10.431	ppbv	99
49) Bromoform	13.20	173	1556498	11.276	ppbv	99
50) 4-Methyl-2-Pentanone	8.86	43	2357211	10.061	ppbv	99
51) 2-Hexanone	10.26	43	1979184	10.823	ppbv #	99
52) Tetrachloroethene	11.37	164	833853	10.611	ppbv	98
53) Toluene	9.94	91	2584153	10.718	ppbv	100
54) 1,2-Dibromoethane	10.75	107	1466295	10.148	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.27	131	1146311	8.950	ppbv	95
57) Chlorobenzene	12.29	112	2021382	8.872	ppbv	99
58) Ethyl Benzene	12.85	91	3572661	9.747	ppbv	100
59) m/p-Xylene	13.14	91	5978727m	18.659	ppbv	
60) o-Xylene	13.84	91	3016538	9.339	ppbv	99
61) Styrene	13.68	104	2270636	10.441	ppbv	100
62) Isopropylbenzene	14.82	105	4041628	9.291	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	2130302	9.069	ppbv	100
64) n-propylbenzene	15.71	120	1049526	9.328	ppbv	99
65) tert-Butylbenzene	16.90	119	3737572	9.411	ppbv	99
66) Benzyl Chloride	17.15	91	1978280	10.458	ppbv	100
67) sec-Butylbenzene	17.45	105	5196164	9.348	ppbv	100
69) p-Isopropyltoluene	17.80	119	4256821	9.265	ppbv	99
70) n-Butylbenzene	18.70	91	4416156	8.963	ppbv	100
71) 2-Chlorotoluene	15.61	91	3064943	9.497	ppbv	99
72) 4-Ethyltoluene	15.99	105	3603491	9.757	ppbv	100
73) 1,3,5-Trimethylbenzene	16.15	105	3416471	9.481	ppbv	98
74) 1,2,4-Trimethylbenzene	16.92	105	3556018	9.068	ppbv	96
75) 1,3-Dichlorobenzene	17.16	146	2067134	8.602	ppbv	99
76) 1,4-Dichlorobenzene	17.30	146	2023146	8.858	ppbv	100
77) 1,2-Dichlorobenzene	17.98	146	1980820	8.772	ppbv	99
78) Hexachloro-1,3-Butadiene	23.53	225	1150477	6.739	ppbv	99
79) Naphthalene	22.40	128	2872465	7.886	ppbv	98
80) Naphthalene, 2-methyl-	25.11	142	904654	6.536	ppbv	96
81) 1,2,4-Trichlorobenzene	22.12	180	1619896	7.595	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.00 min

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Tot Ion: 49 Resp: 1044526

Ion Ratio Lower Upper

49 100

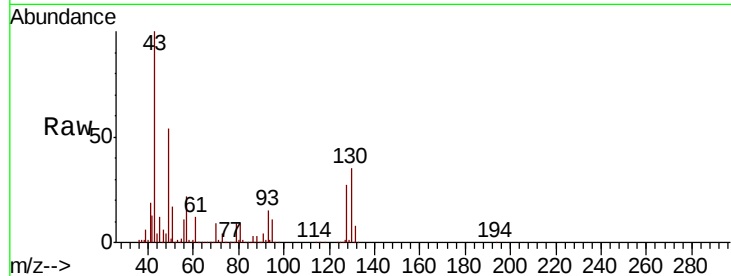
128 51.0 25.2 75.6

130 65.0 32.5 97.5

Manual Integrations
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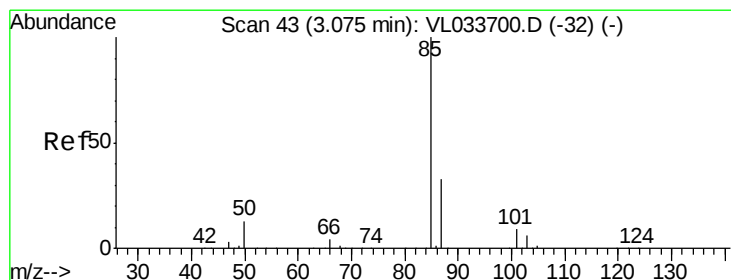
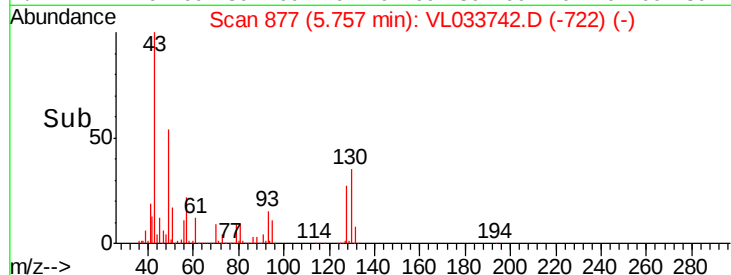
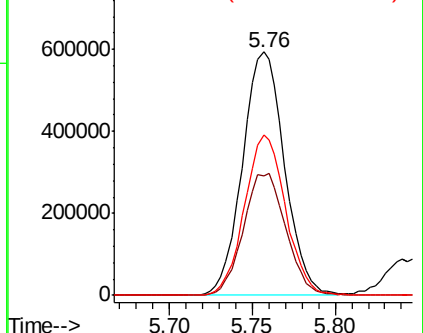
5/28/2019 2:50:42 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 7.485 ppbv

RT: 3.07 min Scan# 42

Delta R.T. -0.00 min

Lab File: VL033742.D

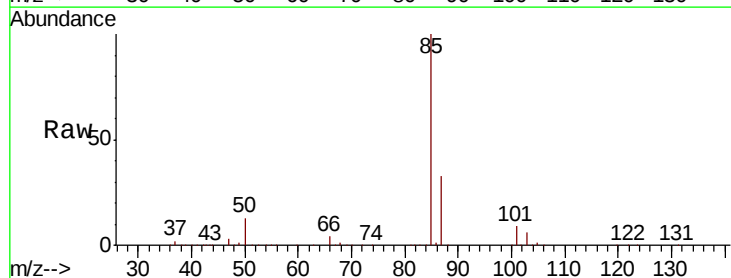
Acq: 22 May 2019 12:49

Tgt Ion: 85 Resp: 1647761

Ion Ratio Lower Upper

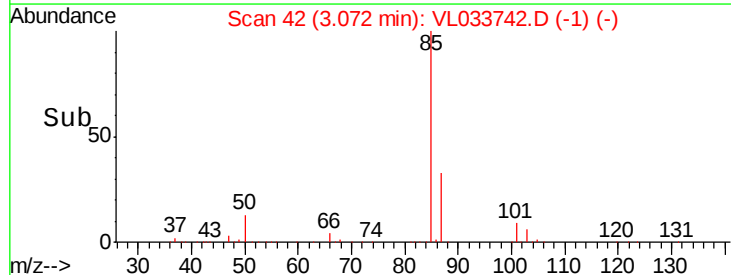
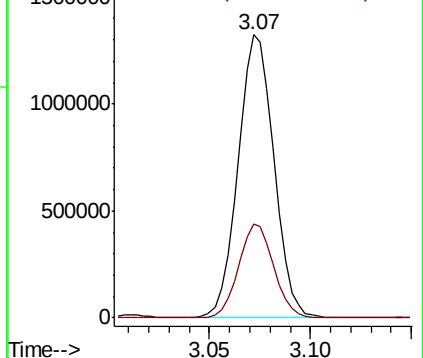
85 100

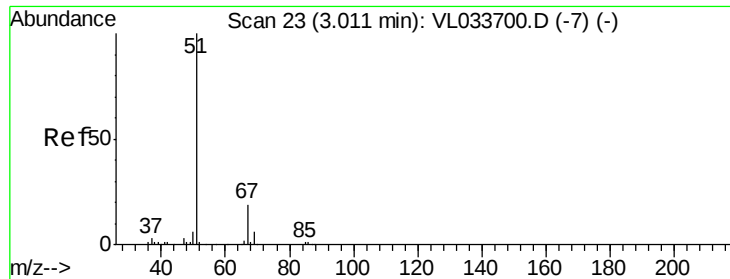
87 33.0 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





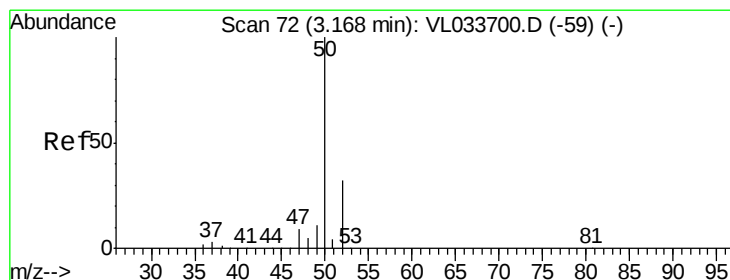
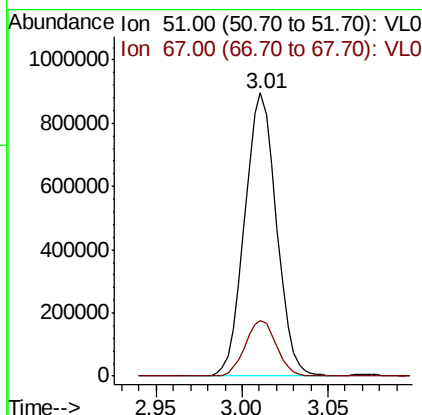
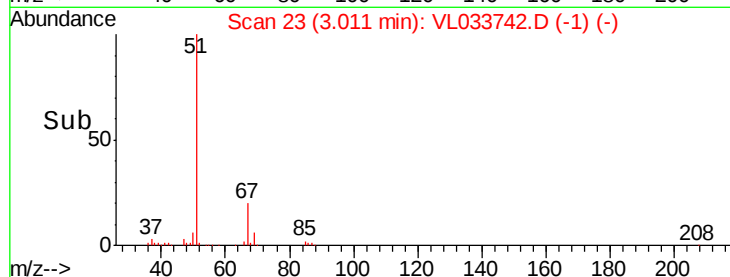
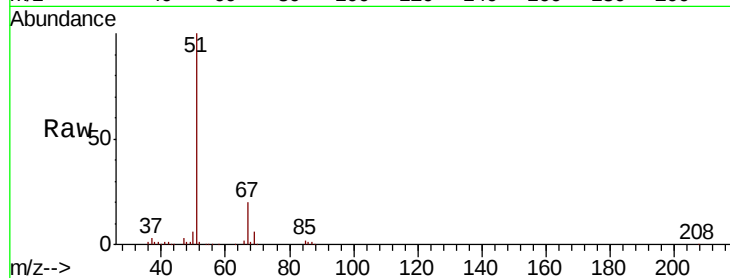
#3
Chlorodifluoromethane
Concen: 9.606 ppbv
RT: 3.01 min Scan# 23
Delta R.T. 0.00 min
Lab File: VL033742.D
Acq: 22 May 2019 12:49

Instrument :
MSVOA_L
ClientSampleId :
VL0522ABS01DUP

Tot Ion: 51 Resp: 1149295
Ion Ratio Lower Upper
51 100
67 19.5 15.6 23.4

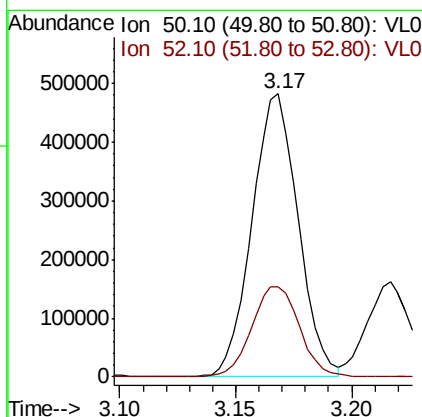
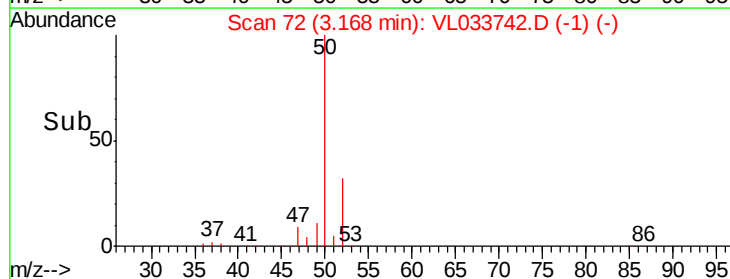
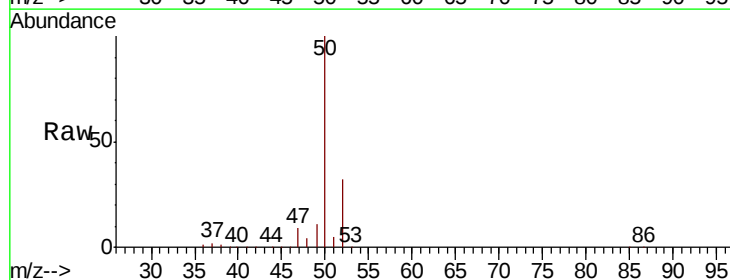
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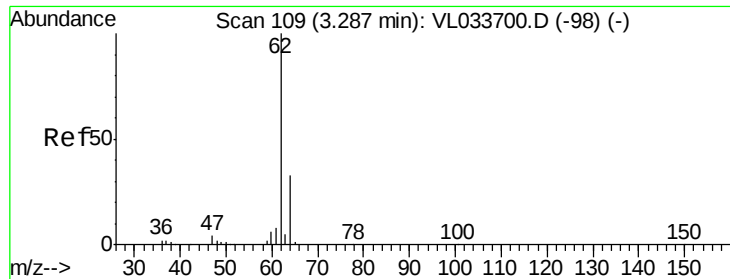
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#4
Chloromethane
Concen: 9.754 ppbv
RT: 3.17 min Scan# 72
Delta R.T. 0.00 min
Lab File: VL033742.D
Acq: 22 May 2019 12:49

Tgt Ion: 50 Resp: 667528
Ion Ratio Lower Upper
50 100
52 31.9 25.7 38.5





#5

Vinyl Chloride

Concen: 9.718 ppbv

RT: 3.29 min Scan# 109

Delta R.T. 0.00 min

Lab File: VL033742.D

Acq: 22 May 2019 12:49

Instrument :

MSVOA_L

ClientSampleId :

VL0522ABS01DUP

Tot Ion: 62 Resp: 677441

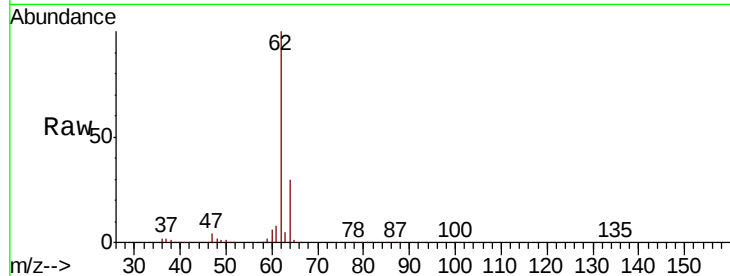
Ion Ratio Lower Upper

62 100

64 30.4 26.4 39.6

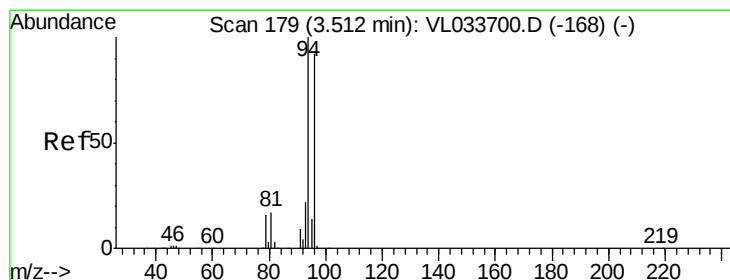
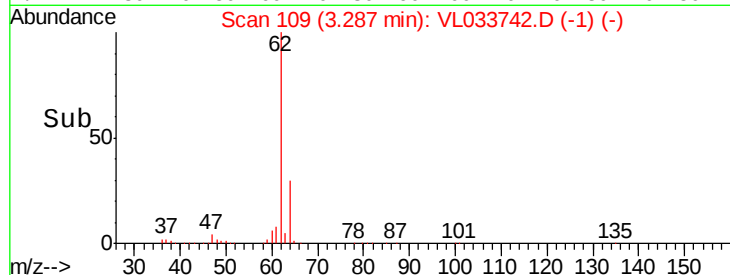
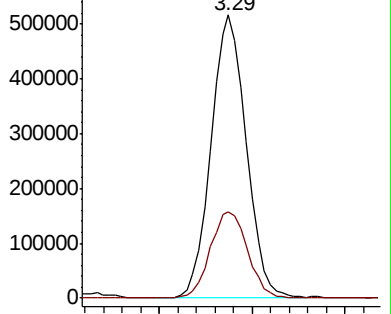
Manual Integrations
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 10.021 ppbv

RT: 3.51 min Scan# 178

Delta R.T. -0.00 min

Lab File: VL033742.D

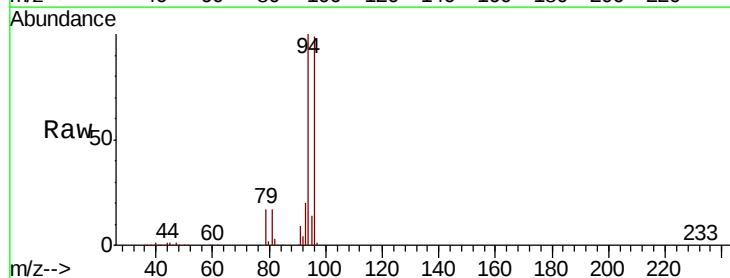
Acq: 22 May 2019 12:49

Tgt Ion: 94 Resp: 426247

Ion Ratio Lower Upper

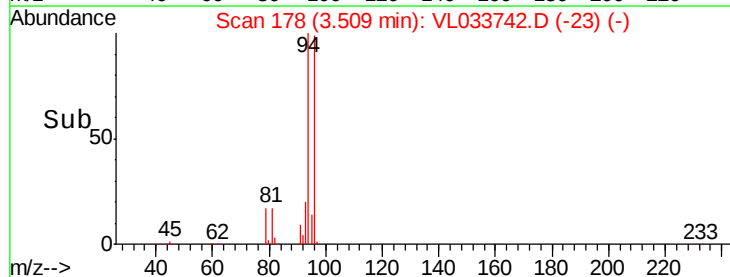
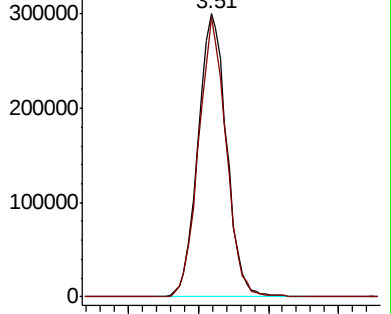
94 100

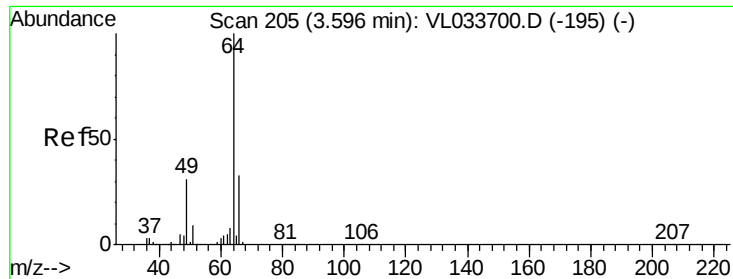
96 98.7 73.6 110.4



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 10.167 ppbv

RT: 3.60 min Scan# 205

Delta R.T. 0.00 min

Lab File: VL033742.D

Acq: 22 May 2019 12:49

Instrument :

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ClientSampleId :

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Tot Ion: 64 Resp: 251878

Ion Ratio Lower Upper

64 100

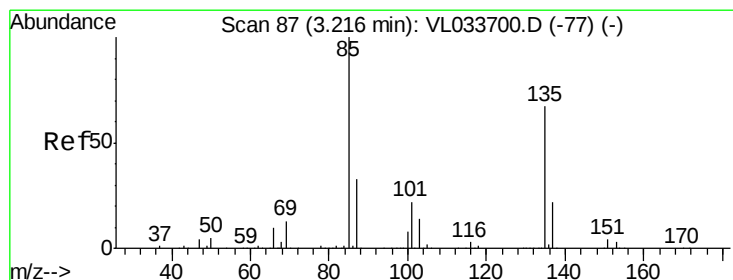
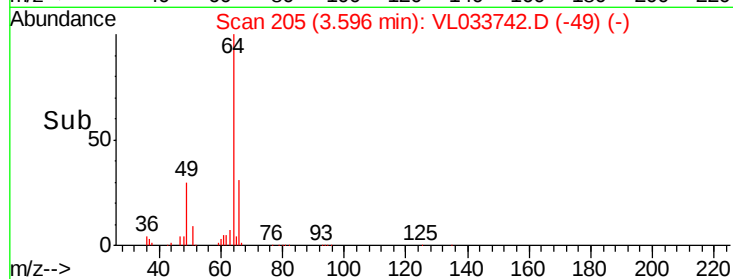
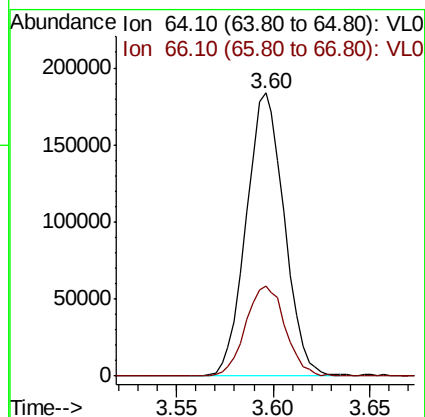
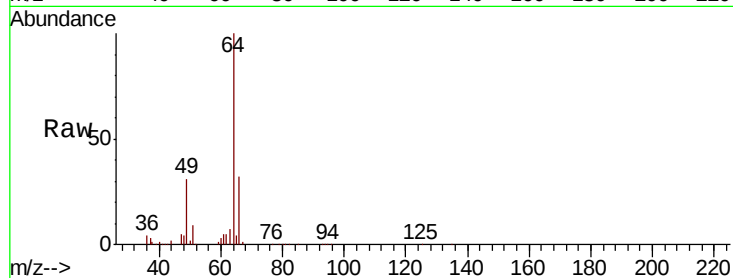
66 32.0 26.6 40.0

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#8

Dichlorotetrafluoroethane

Concen: 9.699 ppbv

RT: 3.22 min Scan# 87

Delta R.T. 0.00 min

Lab File: VL033742.D

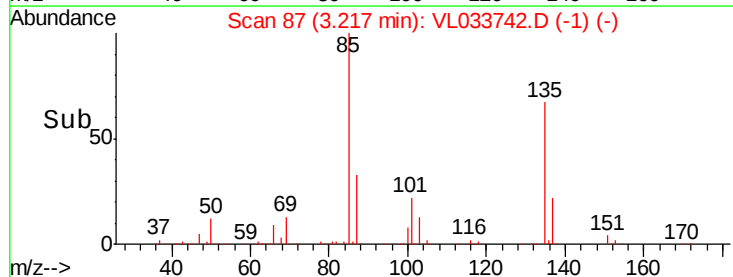
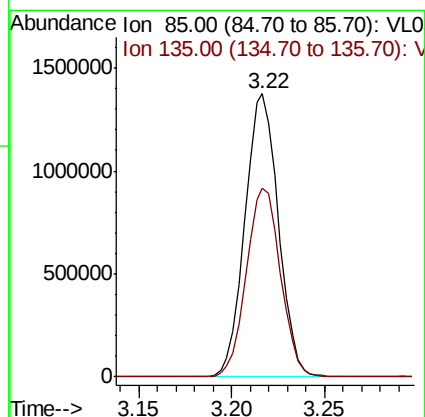
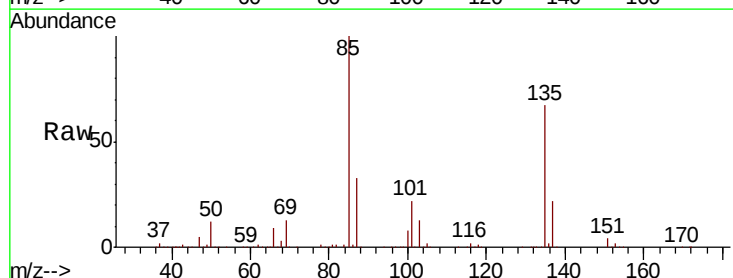
Acq: 22 May 2019 12:49

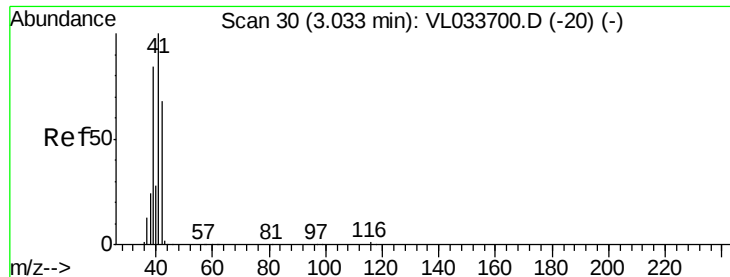
Tgt Ion: 85 Resp: 1721278

Ion Ratio Lower Upper

85 100

135 68.2 54.5 81.7





#9

Propene

Concen: 10.094 ppbv

RT: 3.03 min Scan# 30

Delta R.T. 0.00 min

Lab File: VL033742.D

Acq: 22 May 2019 12:49

Instrument :

MSVOA_L

ClientSampleId :

VL0522ABS01DUP

Tot Ion: 41 Resp: 513712

Ion Ratio Lower Upper

41 100

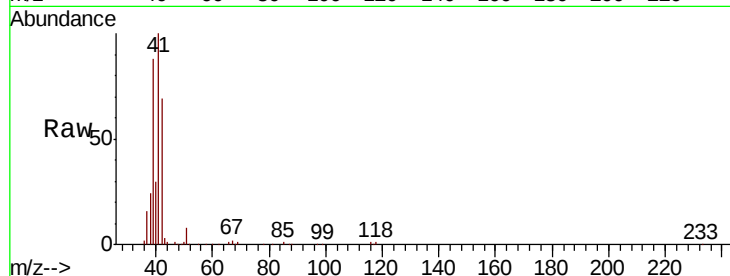
42 69.5 56.1 84.1

Manual Integrations

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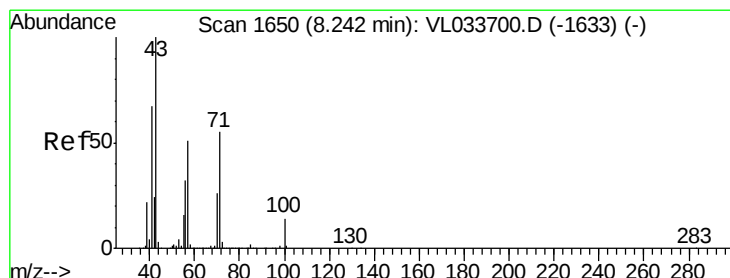
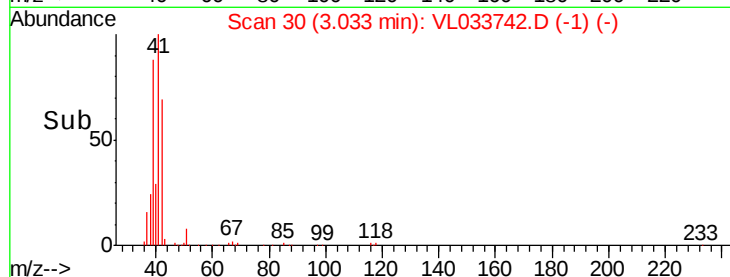
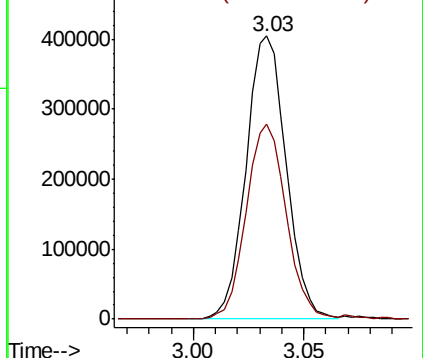
MMDadoda

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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 9.385 ppbv

RT: 8.24 min Scan# 1648

Delta R.T. -0.01 min

Lab File: VL033742.D

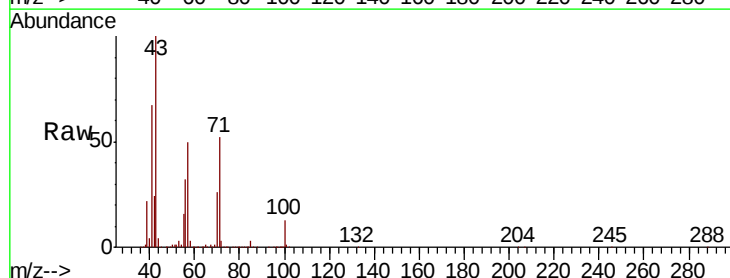
Acq: 22 May 2019 12:49

Tgt Ion: 43 Resp: 1352484

Ion Ratio Lower Upper

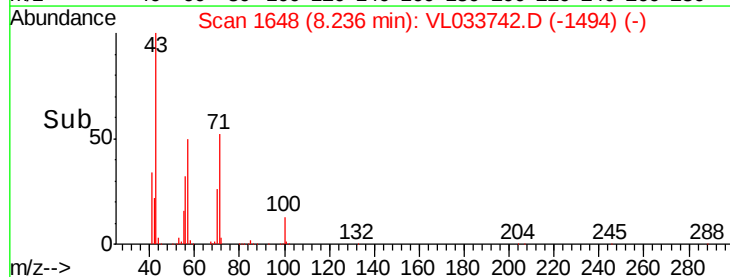
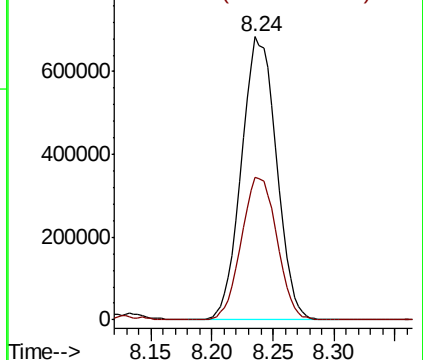
43 100

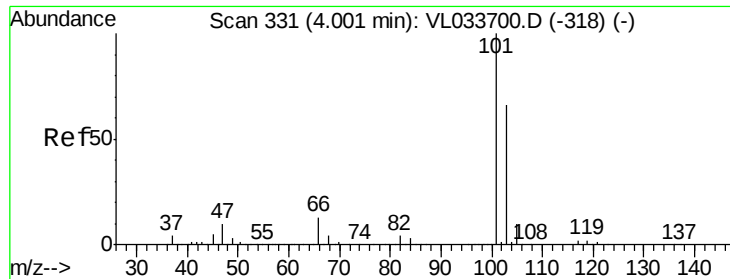
57 51.4 41.4 62.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





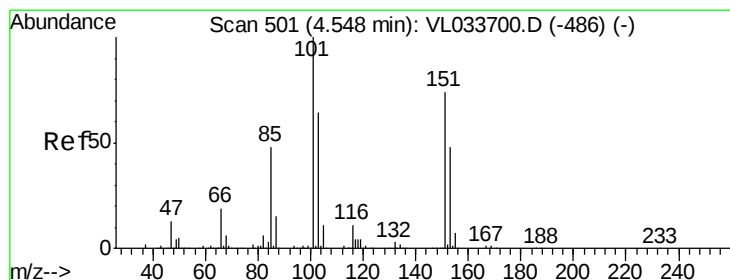
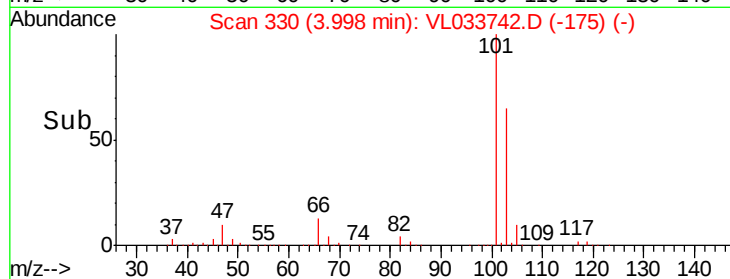
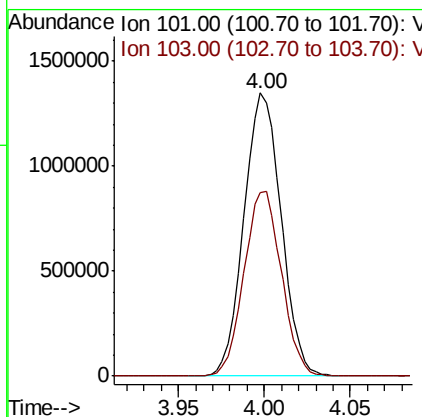
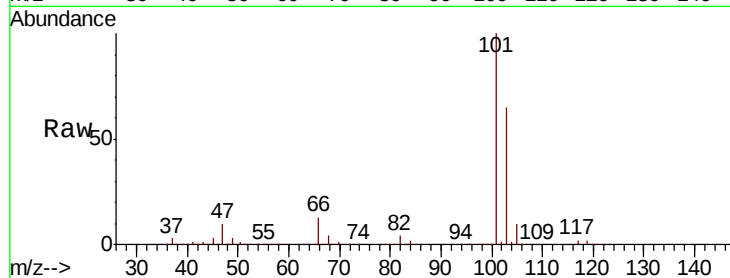
#11
 Trichlorofluoromethane
 Concen: 9.676 ppbv
 RT: 4.00 min Scan# 330
 Delta R.T. -0.00 min
 Lab File: VL033742.D
 Acq: 22 May 2019 12:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0522ABS01DUP

Tot Ion:101 Resp: 2032888
 Ion Ratio Lower Upper
 101 100
 103 64.7 52.6 78.8

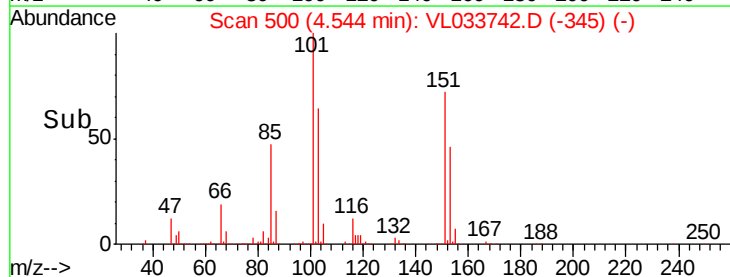
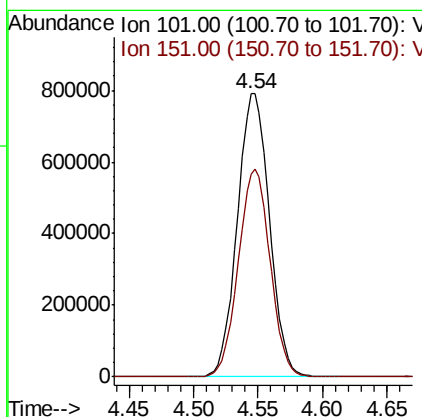
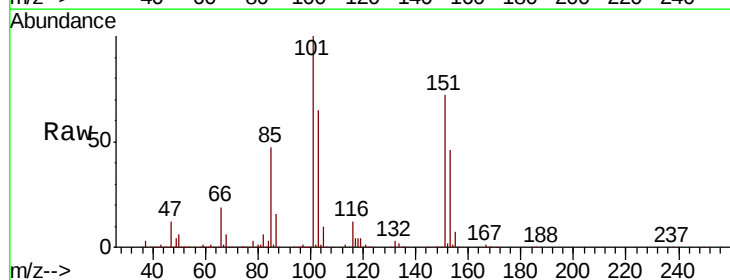
Manual Integrations
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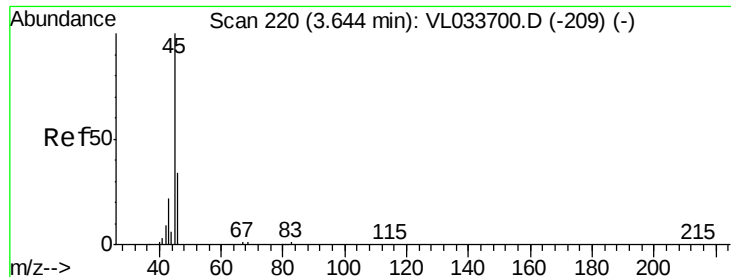
MMDadoda
 5/28/2019 2:50:42 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.345 ppbv
 RT: 4.54 min Scan# 500
 Delta R.T. -0.00 min
 Lab File: VL033742.D
 Acq: 22 May 2019 12:49

Tgt Ion:101 Resp: 1371092
 Ion Ratio Lower Upper
 101 100
 151 72.8 58.2 87.4





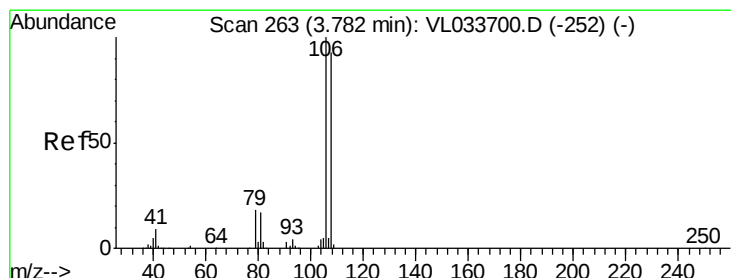
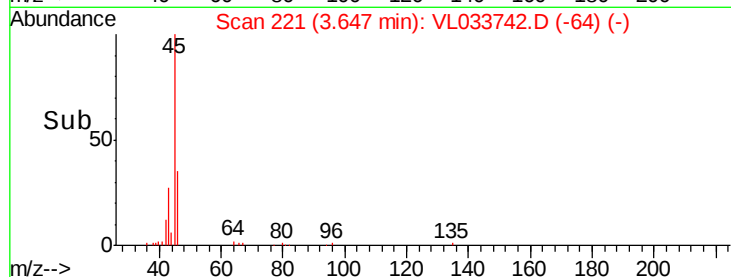
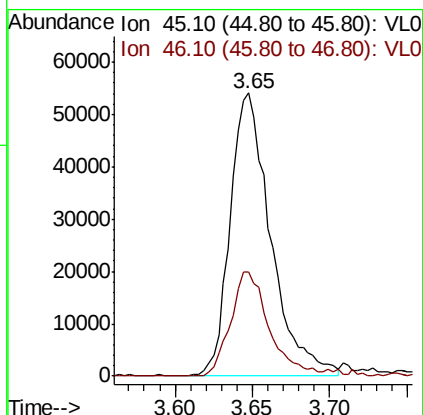
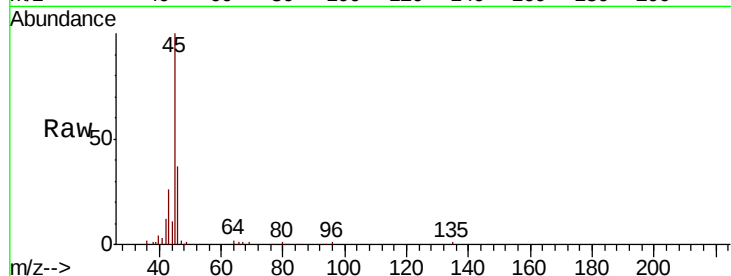
#13
Ethanol
Concen: 5.979 ppbv
RT: 3.65 min Scan# 221
Delta R.T. 0.00 min
Lab File: VL033742.D
Acq: 22 May 2019 12:49

Instrument :
MSVOA_L
ClientSampleId :
VL0522ABS01DUP

Tot Ion	45	Resp	98347
Ion Ratio	100	Lower	Upper
46	36.7	14.8	59.0

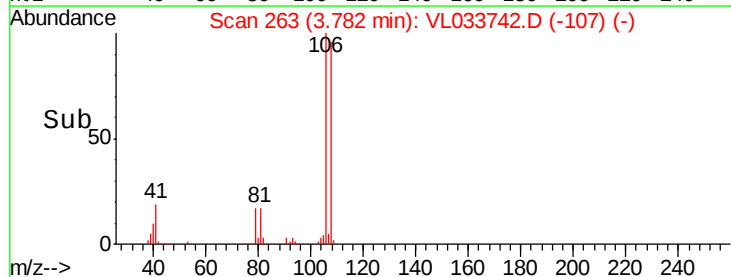
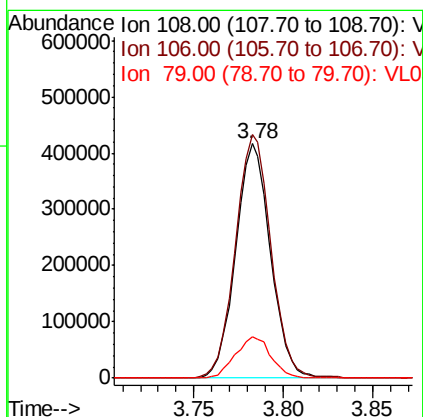
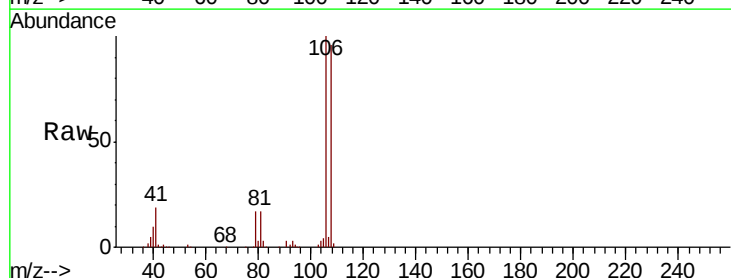
Manual Integrations
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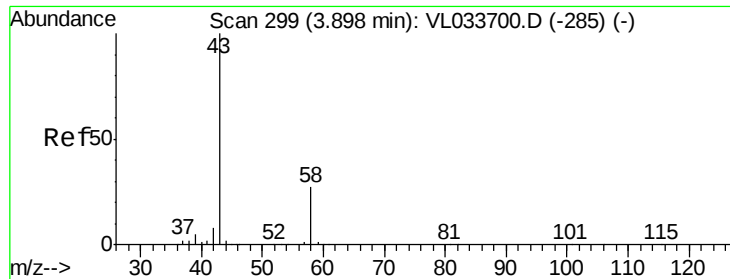
MMDadoda
5/28/2019 2:50:42 AM



#14
Bromoethene
Concen: 10.518 ppbv
RT: 3.78 min Scan# 263
Delta R.T. 0.00 min
Lab File: VL033742.D
Acq: 22 May 2019 12:49

Tgt Ion	108	Resp	567273
Ion Ratio	100	Lower	Upper
106	106.5	86.5	129.7
79	18.5	15.1	22.7





#15

Acetone

Concen: 8.769 ppbv

RT: 3.89 min Scan# 298

Delta R.T. -0.00 min

Lab File: VL033742.D

Acq: 22 May 2019 12:49

Instrument :

MSVOA_L

ClientSampleId :

VL0522ABS01DUP

Tot Ion: 43 Resp: 1270817

Ion Ratio Lower Upper

43 100

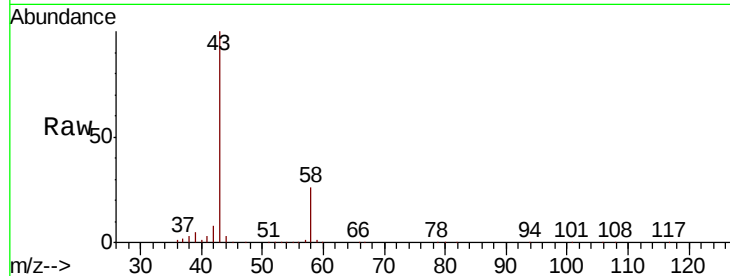
58 26.5 21.3 31.9

Manual Integrations

APPROVED

MMDadoda

5/28/2019 2:50:42 AM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

800000

600000

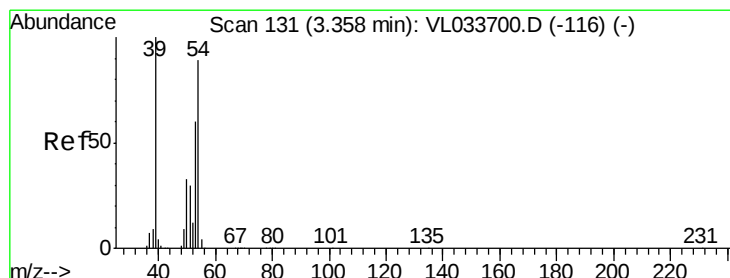
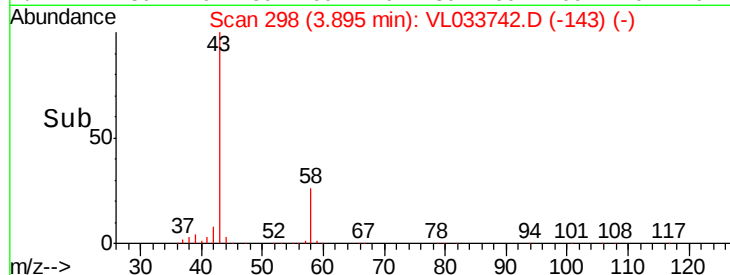
400000

200000

0

3.85 3.90 3.95

Time-->



#16

1,3-Butadiene

Concen: 10.437 ppbv

RT: 3.36 min Scan# 132

Delta R.T. 0.00 min

Lab File: VL033742.D

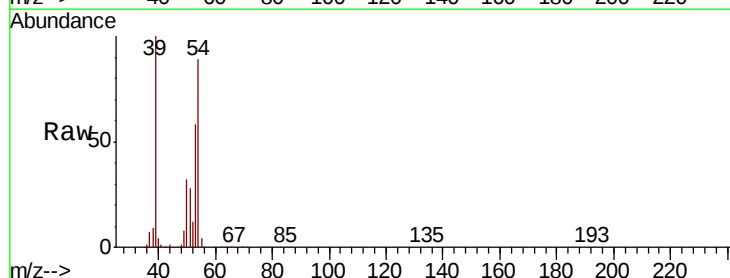
Acq: 22 May 2019 12:49

Tgt Ion: 39 Resp: 602314

Ion Ratio Lower Upper

39 100

54 86.5 69.0 103.6



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

500000

400000

300000

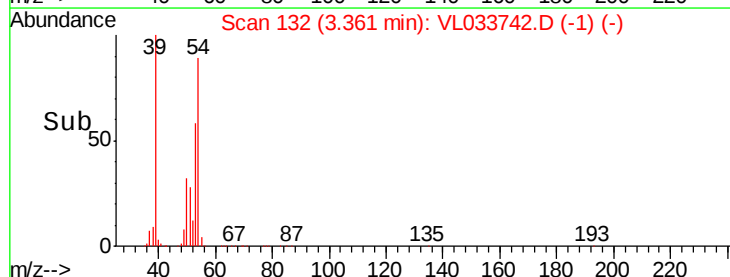
200000

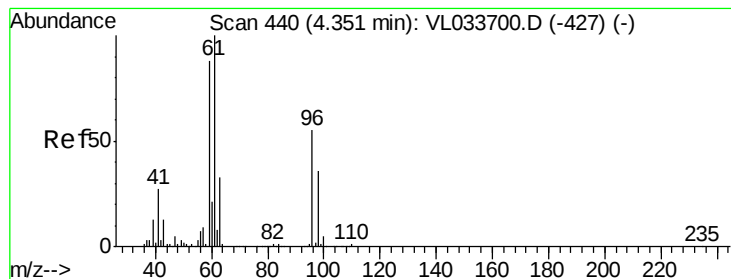
100000

0

3.30 3.35 3.40 3.45

Time-->





#17

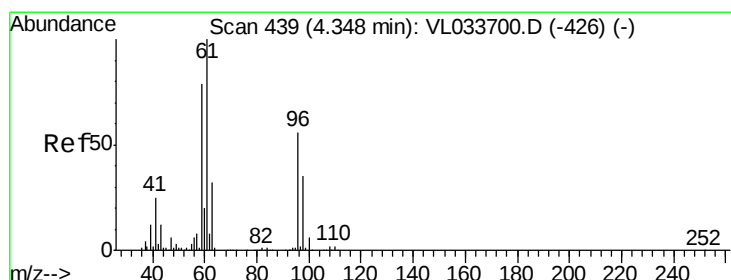
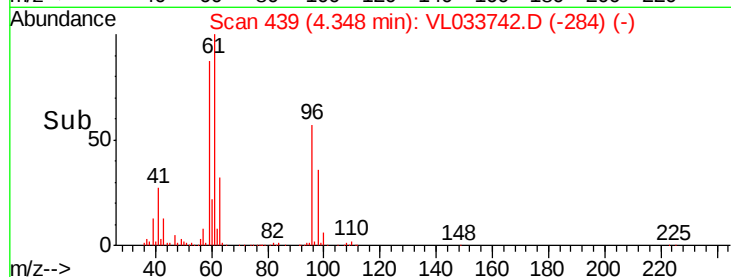
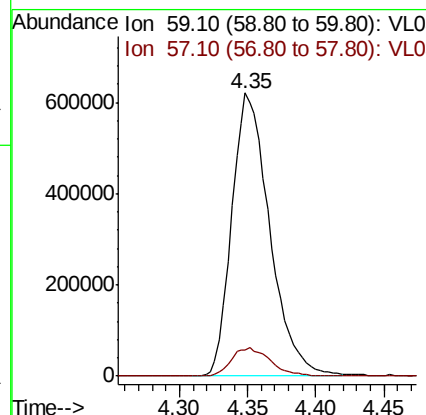
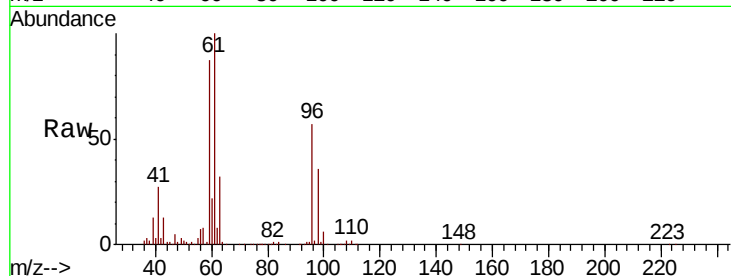
tert-Butyl alcohol
Concen: 10.240 ppbv
RT: 4.35 min Scan# 439
Delta R.T. -0.00 min
Lab File: VL033742.D
Acq: 22 May 2019 12:49

Instrument :
MSVOA_L
ClientSampleId :
VL0522ABS01DUP

Tot Ion: 59 Resp: 1199978
Ion Ratio Lower Upper
59 100
57 10.4 8.4 12.6

Manual Integrations
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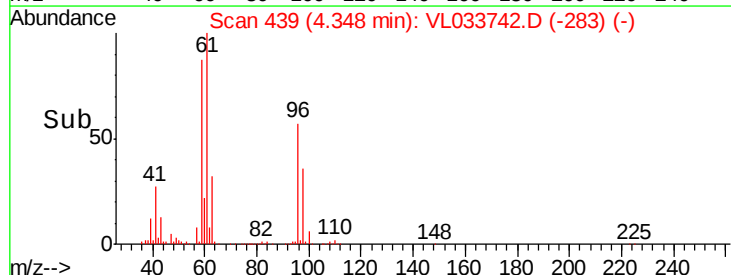
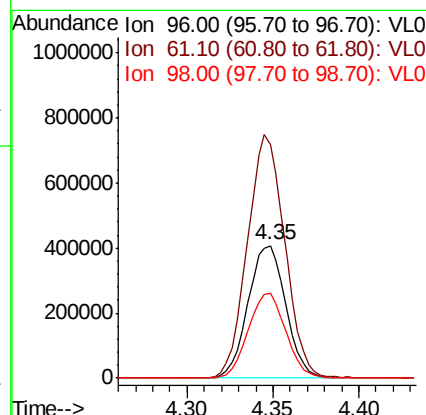
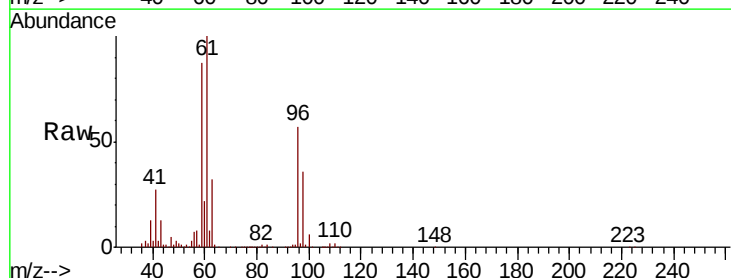
MMDadoda
5/28/2019 2:50:42 AM

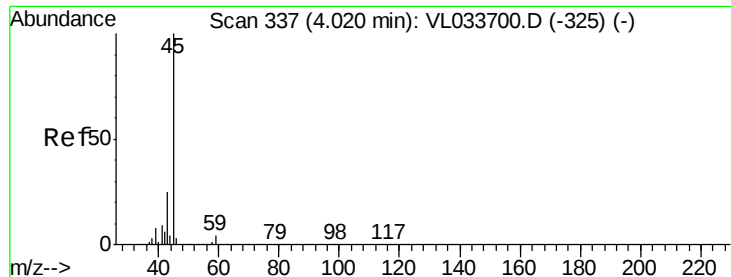


#18

1,1-Dichloroethene
Concen: 10.004 ppbv
RT: 4.35 min Scan# 439
Delta R.T. 0.00 min
Lab File: VL033742.D
Acq: 22 May 2019 12:49

Tgt Ion: 96 Resp: 619486
Ion Ratio Lower Upper
96 100
61 175.6 143.1 214.7
98 63.6 49.5 74.3





#19

Isopropyl Alcohol

Concen: 9.160 ppbv

RT: 4.02 min Scan# 336

Delta R.T. -0.00 min

Lab File: VL033742.D

Acq: 22 May 2019 12:49

Instrument :

MSVOA_L

ClientSampleId :

VL0522ABS01DUP

Tot Ion: 45 Resp: 855969

Ion Ratio Lower Upper

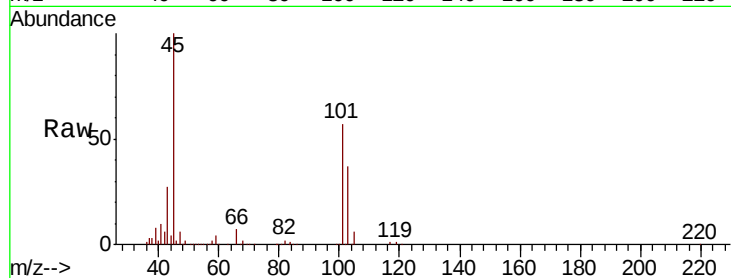
45 100

58 1.9 1.6 2.4

Manual Integrations
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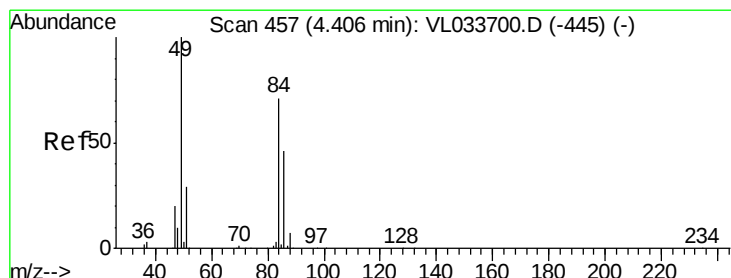
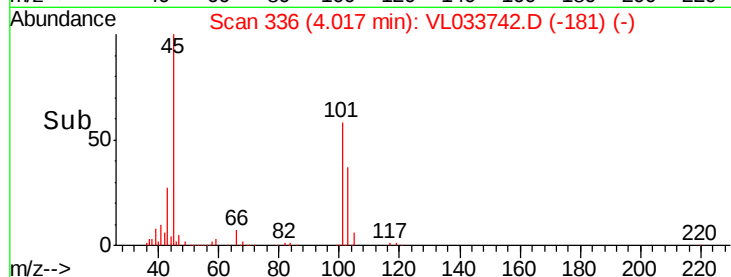
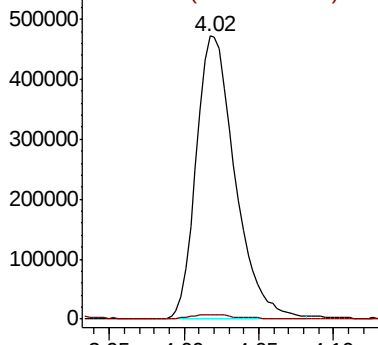
MMDadoda

5/28/2019 2:50:42 AM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 9.395 ppbv

RT: 4.40 min Scan# 456

Delta R.T. -0.00 min

Lab File: VL033742.D

Acq: 22 May 2019 12:49

Tgt Ion: 84 Resp: 524253

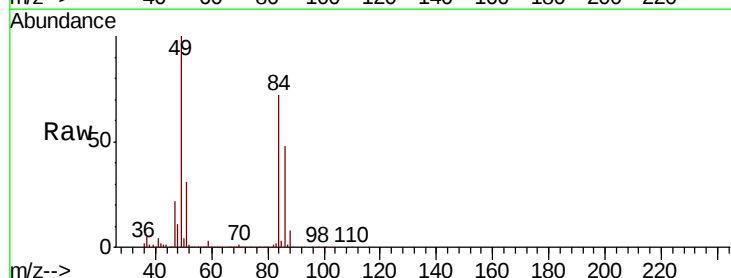
Ion Ratio Lower Upper

84 100

49 137.2 112.8 169.2

51 41.3 33.4 50.0

86 65.8 51.7 77.5

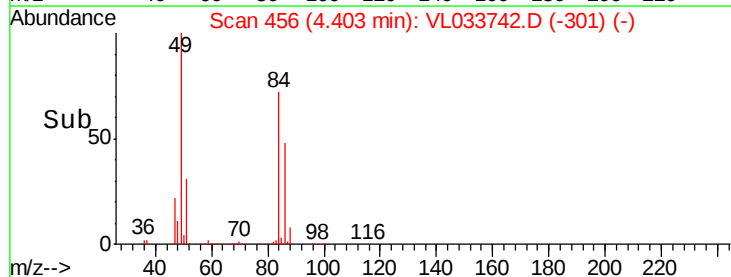
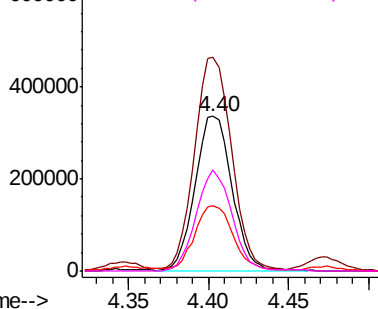


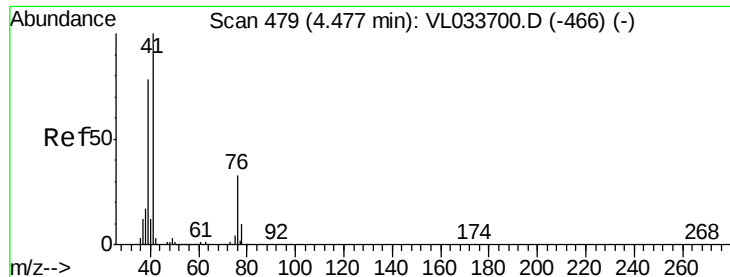
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#21

Allvl Chloride

Concen: 9.978 ppbv

RT: 4.47 min Scan# 477

Delta R.T. -0.01 min

Lab File: VL033742.D

Acq: 22 May 2019 12:49

Instrument :

MSVOA_L

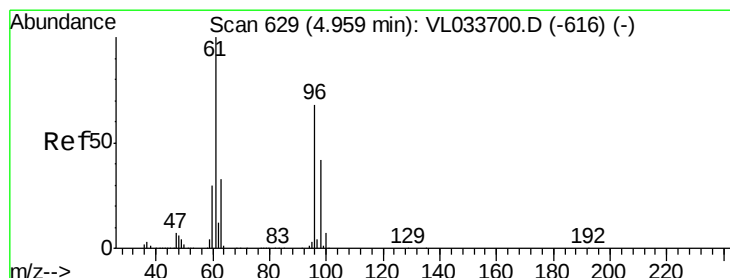
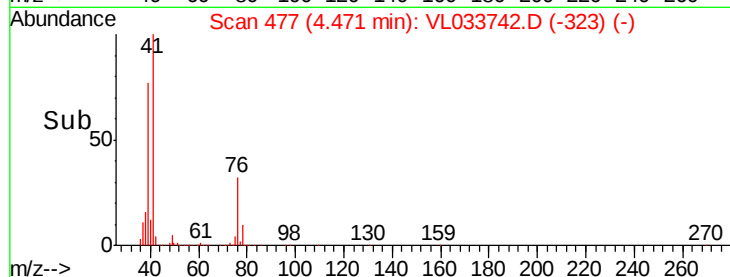
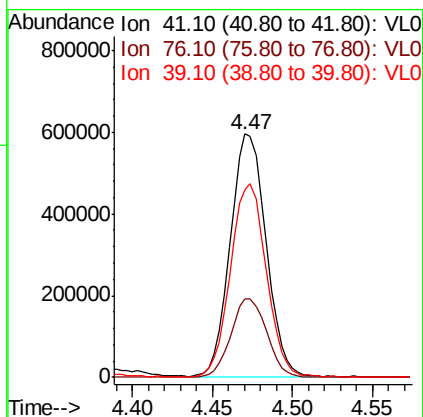
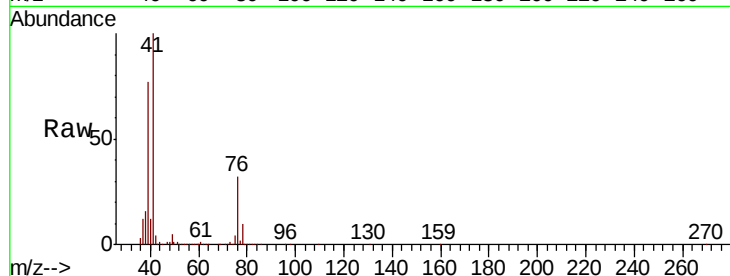
ClientSampleId :

VL0522ABS01DUP

Tot Ion:	41	Resp:	901927
Ion Ratio		Lower	Upper
41	100		
76	32.6	25.9	38.9
39	79.9	64.6	97.0

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 10.012 ppbv

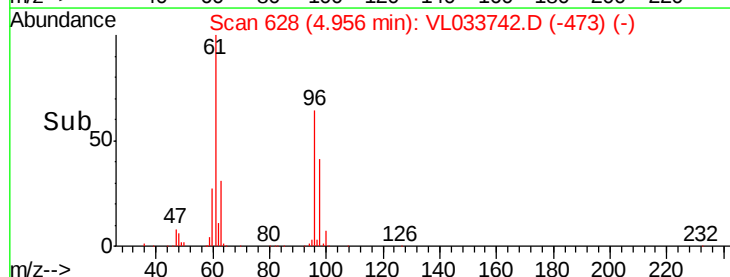
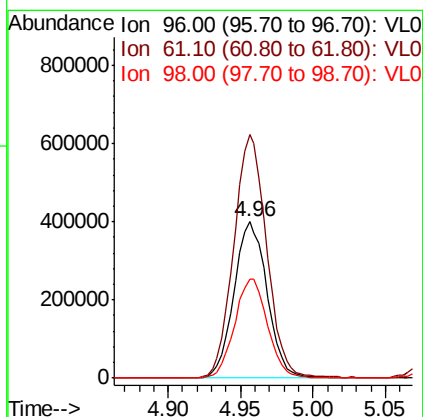
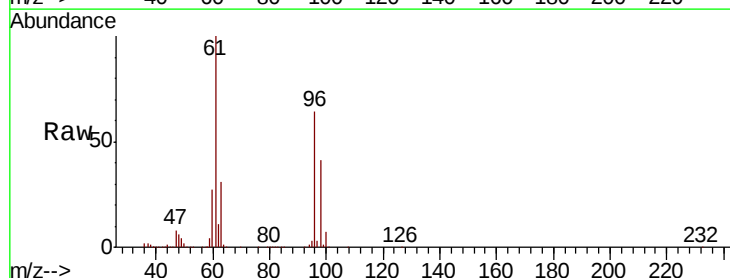
RT: 4.96 min Scan# 628

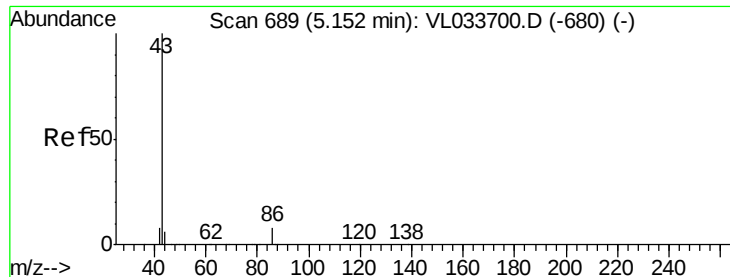
Delta R.T. -0.00 min

Lab File: VL033742.D

Acq: 22 May 2019 12:49

Tgt Ion:	96	Resp:	635464
Ion Ratio		Lower	Upper
96	100		
61	155.7	116.8	175.2
98	63.7	49.4	74.0





#23

Vinyl Acetate

Concen: 10.299 ppbv

RT: 5.15 min Scan# 688

Delta R.T. -0.00 min

Lab File: VL033742.D

Acq: 22 May 2019 12:49

Tot Ion: 43 Resp: 1967908

Ion Ratio Lower Upper

43 100

86 7.9 6.0 9.0

42 9.9 7.5 11.3

44 5.2 4.4 6.6

Instrument :

MSVOA_L

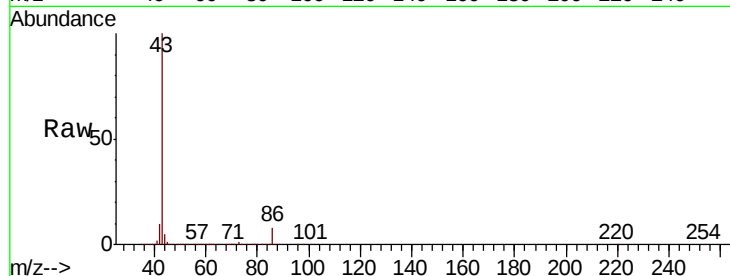
ClientSampleId :

VL0522ABS01DUP

Manual Integrations
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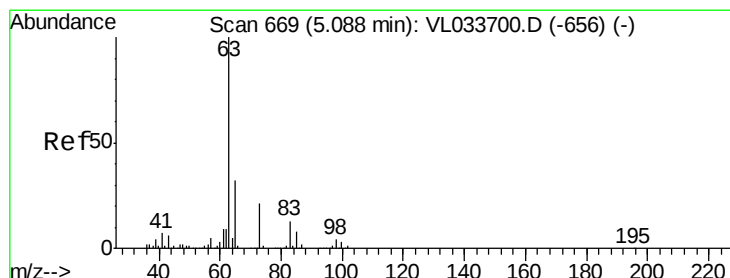
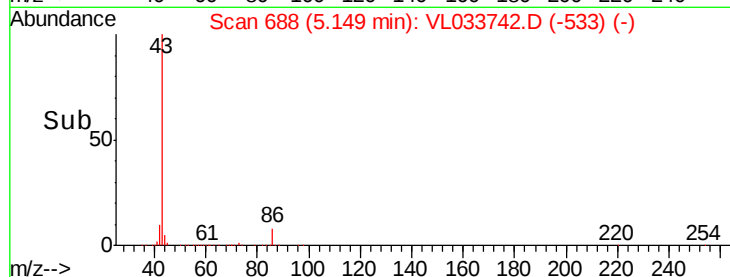
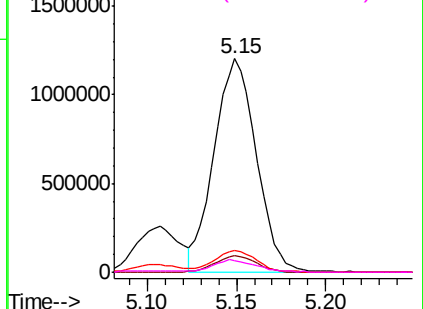


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.582 ppbv

RT: 5.08 min Scan# 668

Delta R.T. -0.00 min

Lab File: VL033742.D

Acq: 22 May 2019 12:49

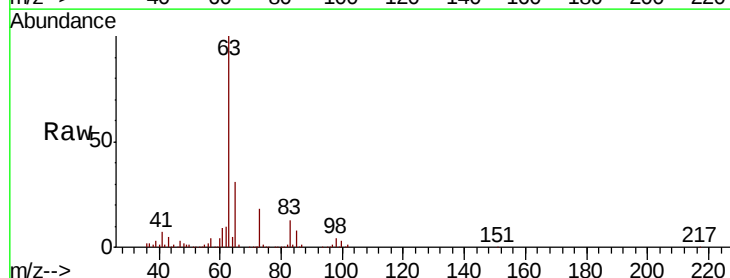
Tgt Ion: 63 Resp: 1391862

Ion Ratio Lower Upper

63 100

98 4.4 1.8 5.5

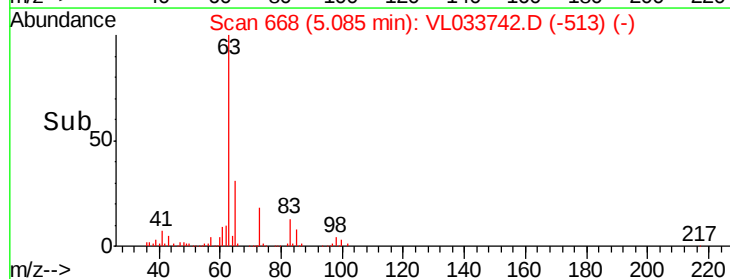
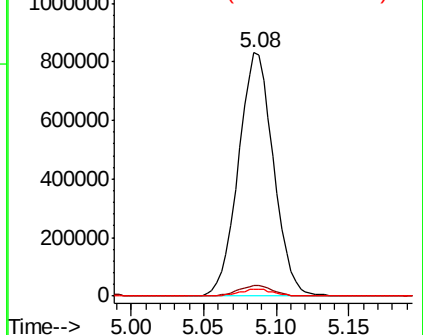
100 2.7 1.4 4.2

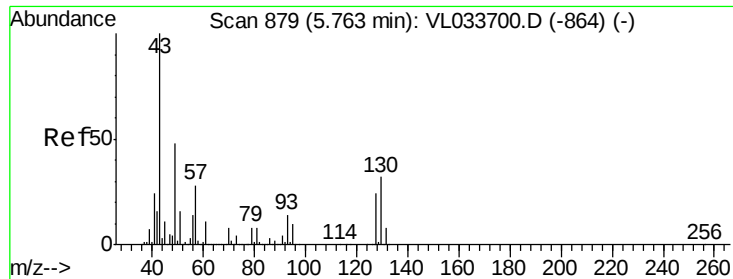


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





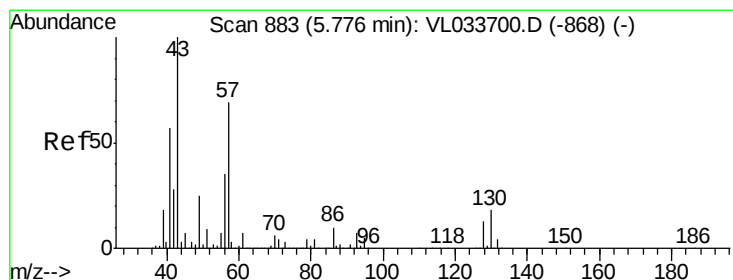
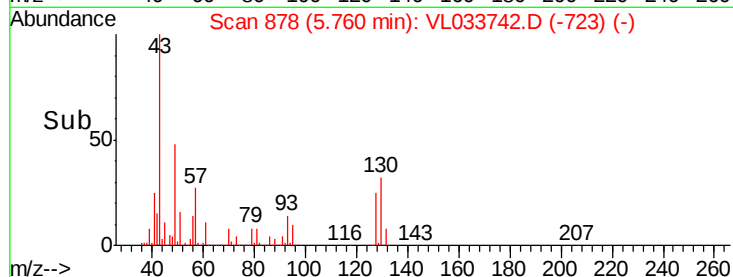
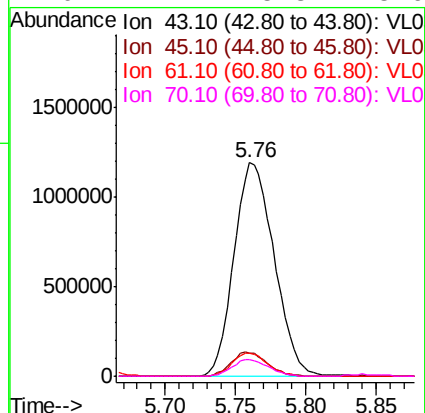
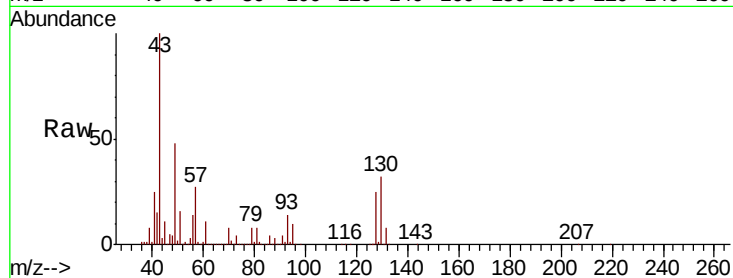
#25
Ethyl Acetate
Concen: 9.332 ppbv
RT: 5.76 min Scan# 878
Delta R.T. -0.00 min
Lab File: VL033742.D
Acq: 22 May 2019 12:49

Instrument :
MSVOA_L
ClientSampleId :
VL0522ABS01DUP

Tot Ion	Ratio	Lower	Upper
43	100		
45	10.2	7.9	11.9
61	9.7	7.7	11.5
70	7.2	5.8	8.6

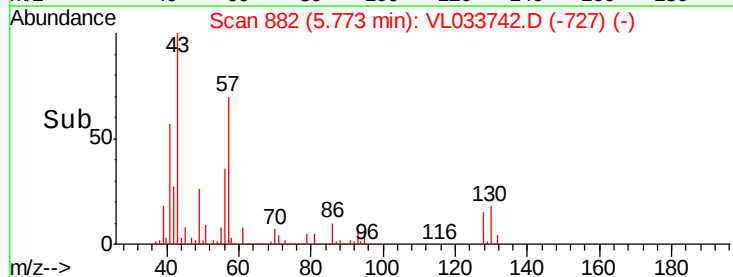
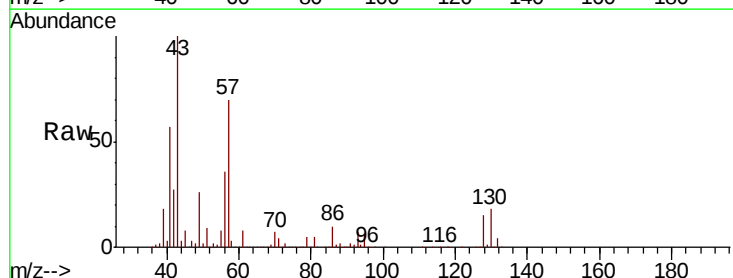
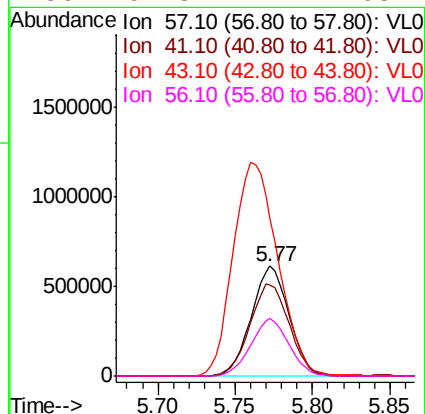
Manual Integrations
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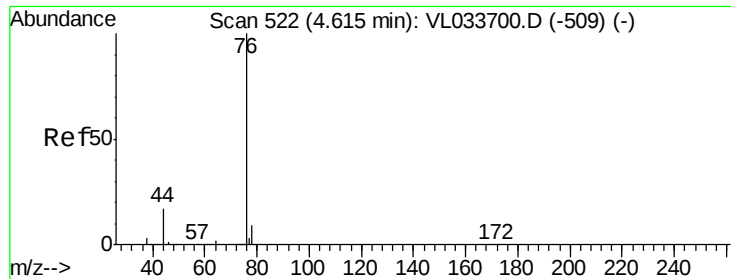
MMDadoda
5/28/2019 2:50:42 AM



#26
Hexane
Concen: 9.505 ppbv
RT: 5.77 min Scan# 882
Delta R.T. -0.00 min
Lab File: VL033742.D
Acq: 22 May 2019 12:49

Tgt Ion	Ratio	Lower	Upper
57	100		
41	87.6	69.8	104.6
43	229.3	181.8	272.6
56	52.8	42.1	63.1





#27

Carbon Disulfide

Concen: 10.372 ppbv

RT: 4.62 min Scan# 522

Delta R.T. 0.00 min

Lab File: VL033742.D

Acq: 22 May 2019 12:49

Instrument :

MSVOA_L

ClientSampleId :

VL0522ABS01DUP

Tot Ion: 76 Resp: 1557448

Ion Ratio Lower Upper

76 100

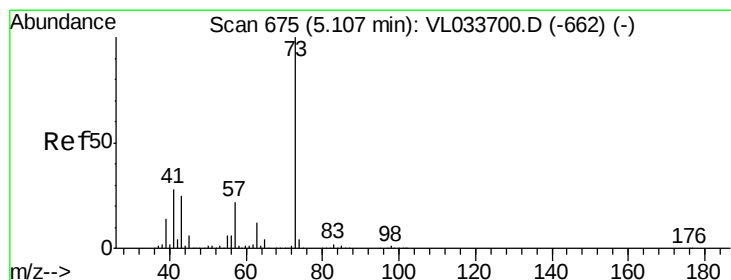
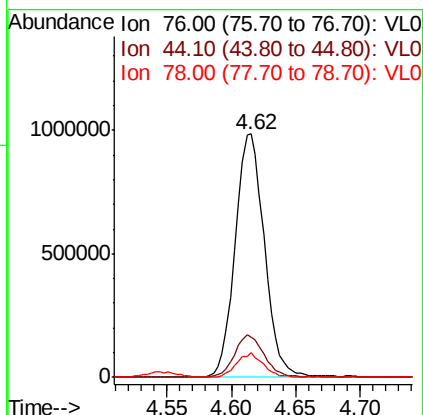
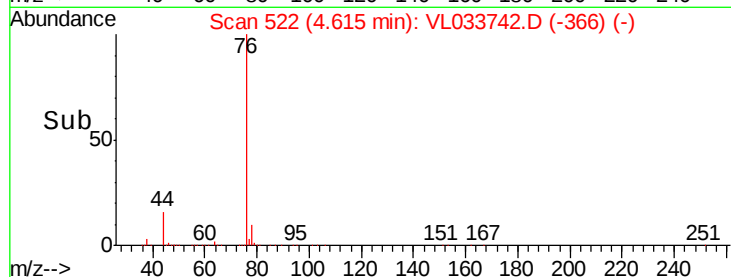
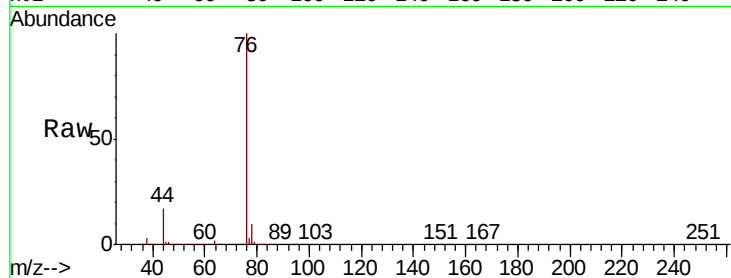
44 17.2 13.8 20.8

78 9.2 7.4 11.0

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#28

Methyl tert-Butyl Ether

Concen: 10.213 ppbv

RT: 5.10 min Scan# 674

Delta R.T. -0.00 min

Lab File: VL033742.D

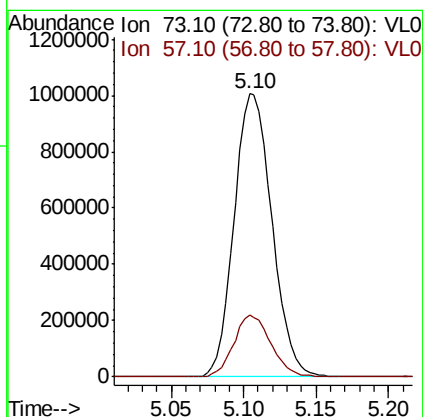
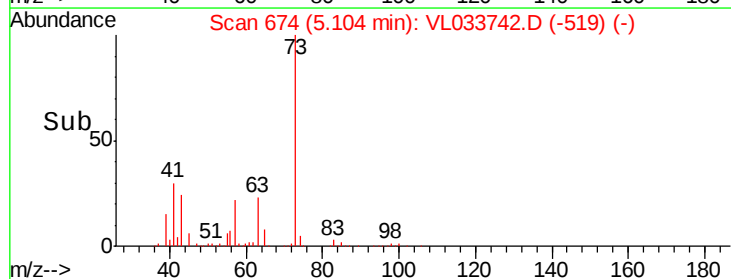
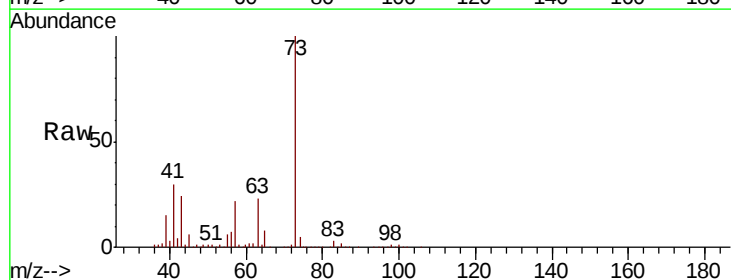
Acq: 22 May 2019 12:49

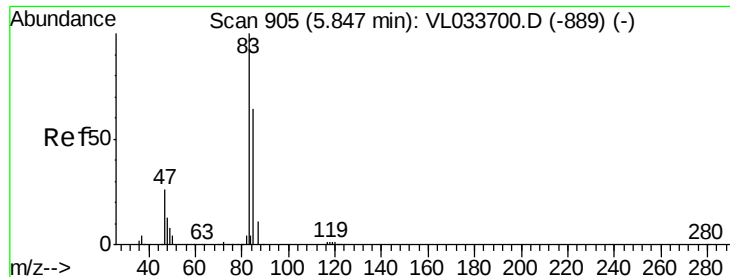
Tgt Ion: 73 Resp: 1822122

Ion Ratio Lower Upper

73 100

57 21.6 17.4 26.2





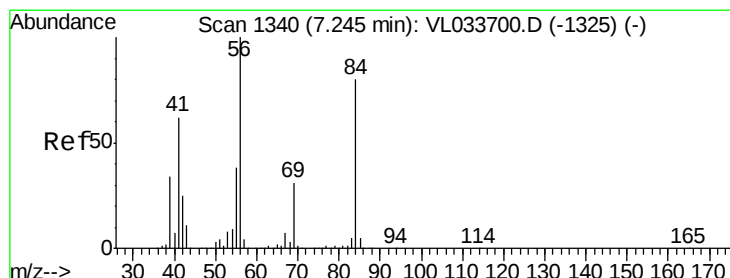
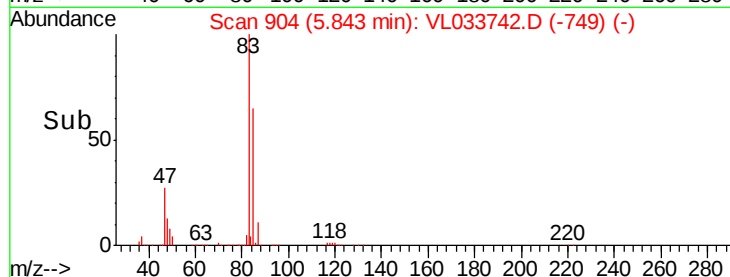
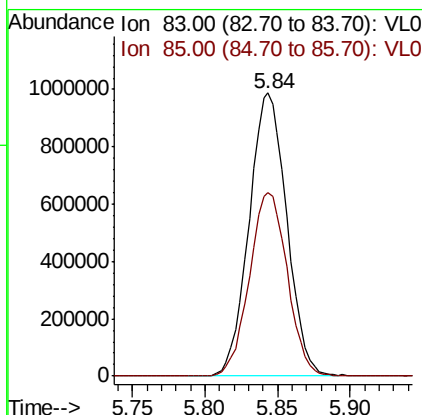
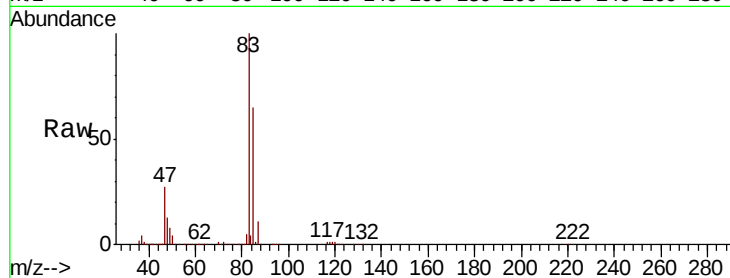
#29
Chloroform
Concen: 8.867 ppbv
RT: 5.84 min Scan# 904
Delta R.T. -0.00 min
Lab File: VL033742.D
Acq: 22 May 2019 12:49

Instrument :
MSVOA_L
ClientSampleId :
VL0522ABS01DUP

Tot Ion: 83 Resp: 1787544
Ion Ratio Lower Upper
83 100
85 64.7 51.5 77.3

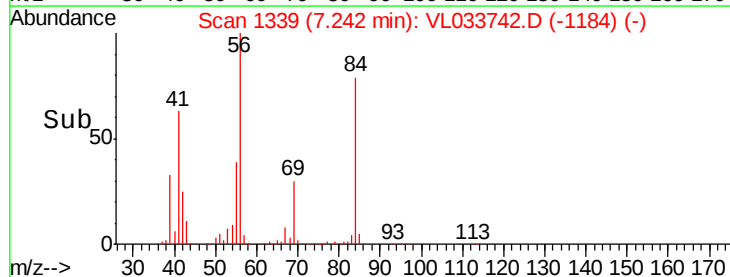
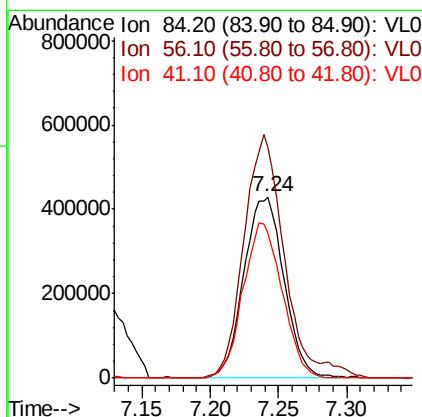
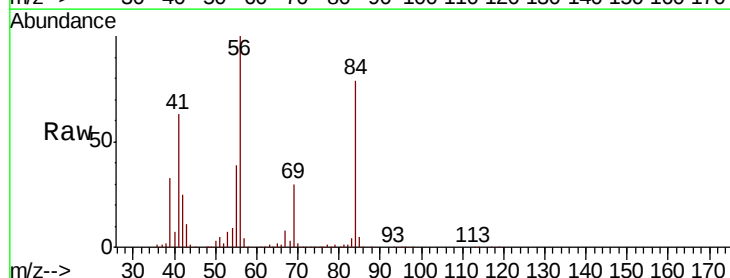
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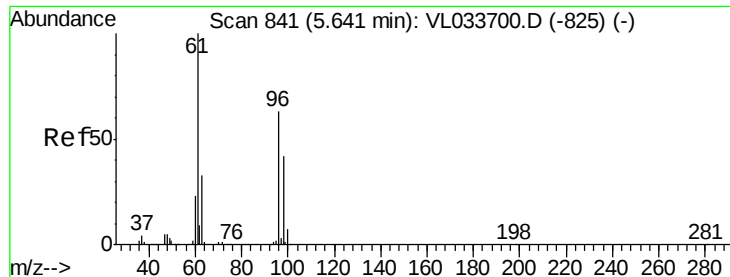
MMDadoda
5/28/2019 2:50:42 AM



#30
Cyclohexane
Concen: 9.549 ppbv
RT: 7.24 min Scan# 1339
Delta R.T. -0.00 min
Lab File: VL033742.D
Acq: 22 May 2019 12:49

Tgt Ion: 84 Resp: 878610
Ion Ratio Lower Upper
84 100
56 135.9 107.7 161.5
41 83.5 66.0 99.0





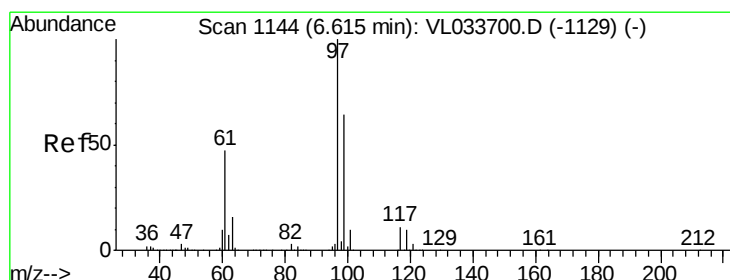
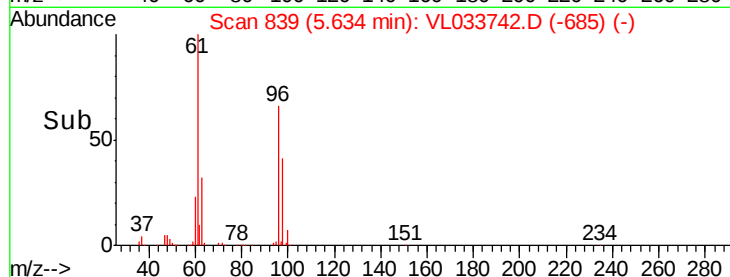
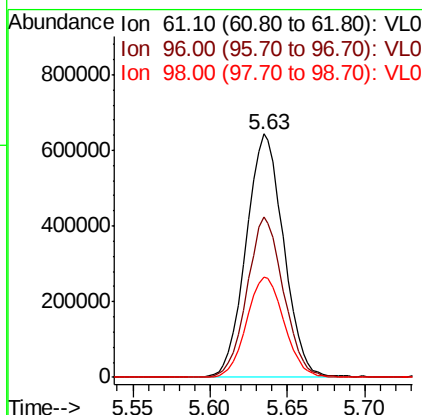
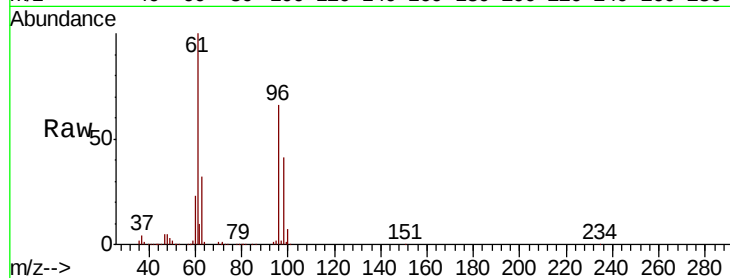
#31
 cis-1,2-Dichloroethene
 Concen: 10.007 ppbv
 RT: 5.63 min Scan# 839
 Delta R.T. -0.01 min
 Lab File: VL033742.D
 Acq: 22 May 2019 12:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0522ABS01DUP

Tot Ion	Ion	Ratio	Lower	Upper
61	100			
96	65.6	50.8	76.2	
98	40.9	33.3	49.9	

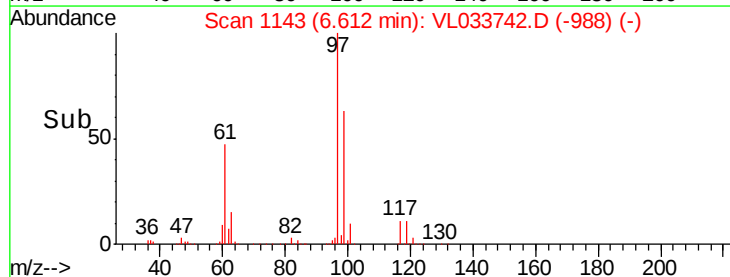
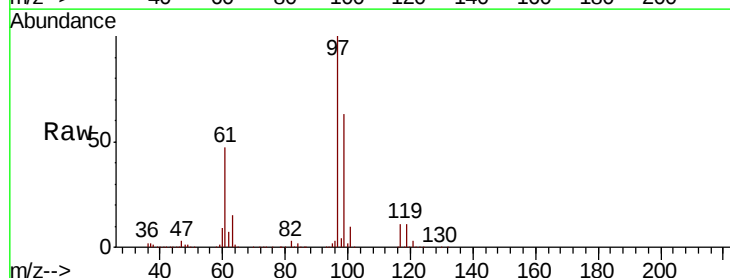
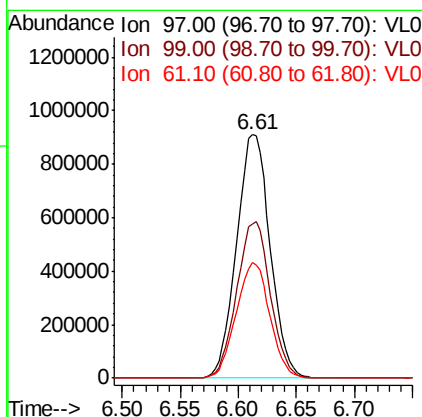
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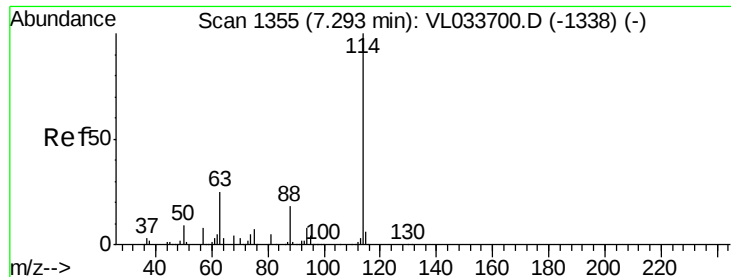
MMDadoda
 5/28/2019 2:50:42 AM



#32
 1,1,1-Trichloroethane
 Concen: 9.110 ppbv
 RT: 6.61 min Scan# 1143
 Delta R.T. -0.00 min
 Lab File: VL033742.D
 Acq: 22 May 2019 12:49

Tgt Ion	Ion	Ratio	Lower	Upper
97	100			
99	64.2	51.5	77.3	
61	47.7	37.8	56.8	





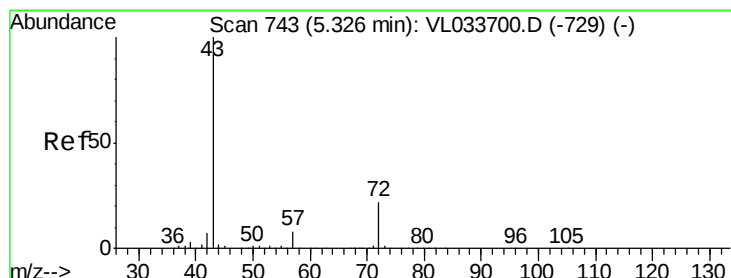
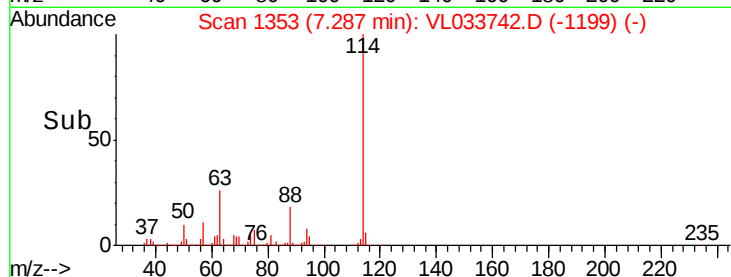
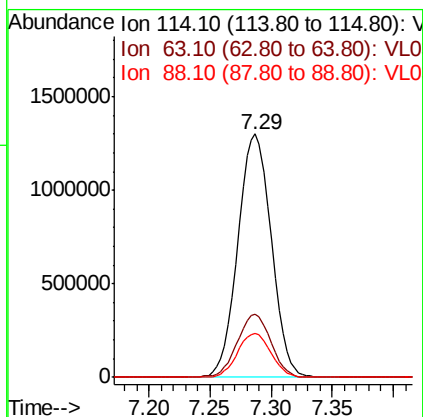
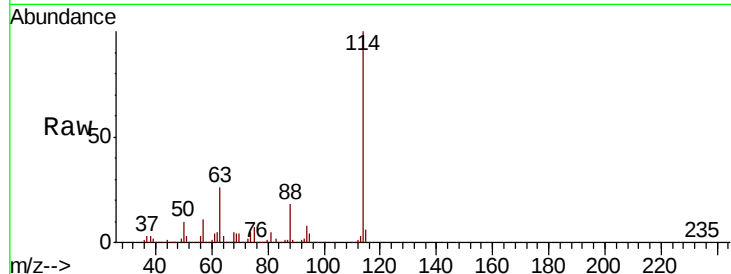
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033742.D
 Acq: 22 May 2019 12:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0522ABS01DUP

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.5	20.9	31.3
88	18.1	14.3	21.5

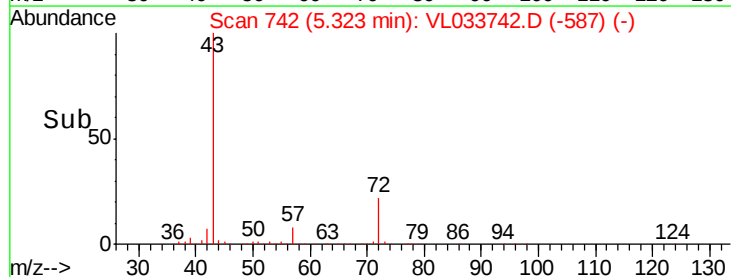
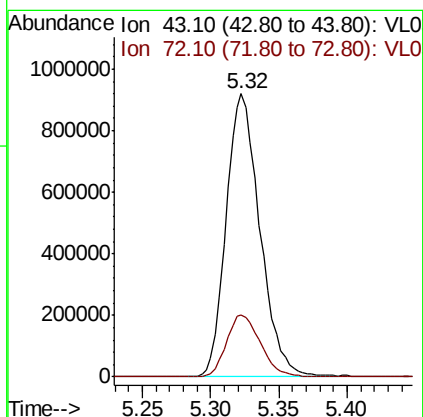
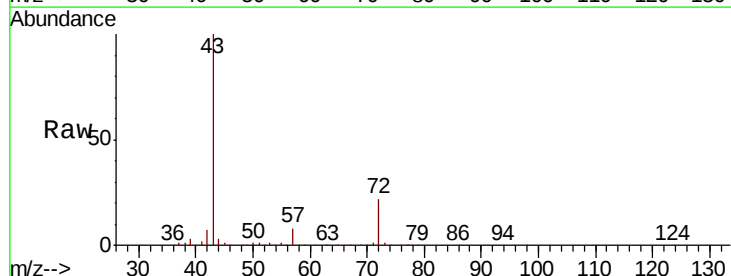
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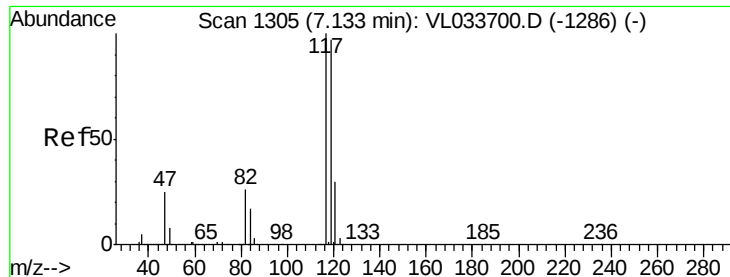
MMDadoda
 5/28/2019 2:50:42 AM



#34
 2-Butanone
 Concen: 10.329 ppbv
 RT: 5.32 min Scan# 742
 Delta R.T. -0.00 min
 Lab File: VL033742.D
 Acq: 22 May 2019 12:49

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.2	17.8	26.6





#35

Carbon Tetrachloride

Concen: 9.908 ppbv

RT: 7.13 min Scan# 1303

Delta R.T. -0.01 min

Lab File: VL033742.D

Acq: 22 May 2019 12:49

Instrument :

MSVOA_L

ClientSampleId :

VL0522ABS01DUP

Tot Ion:117 Resp: 1950413

Ion Ratio Lower Upper

117 100

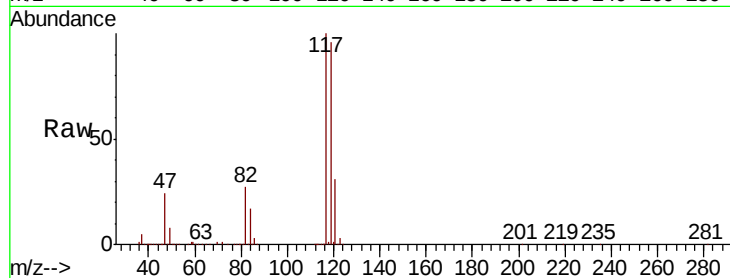
119 95.9 77.2 115.8

121 31.2 24.1 36.1

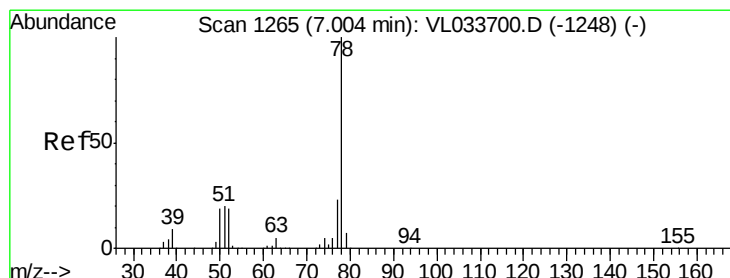
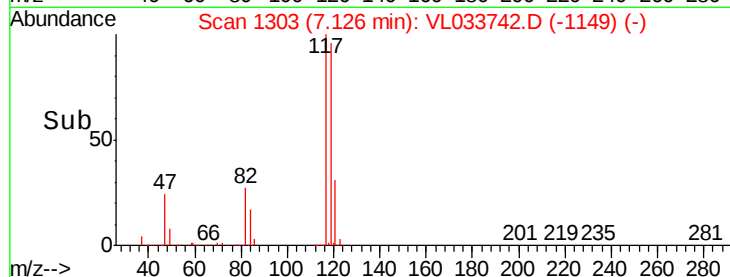
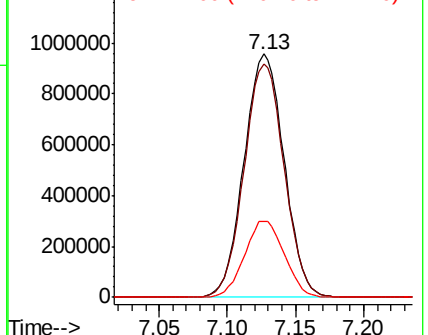
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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.730 ppbv

RT: 7.00 min Scan# 1263

Delta R.T. -0.01 min

Lab File: VL033742.D

Acq: 22 May 2019 12:49

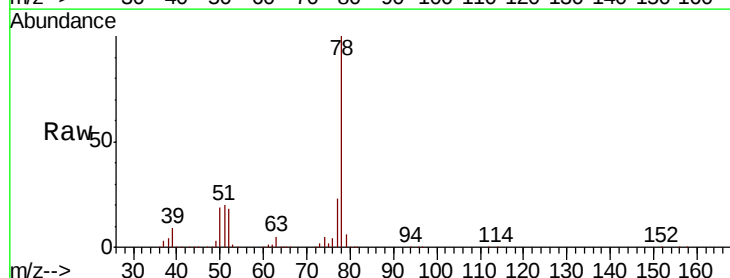
Tgt Ion: 78 Resp: 2175061

Ion Ratio Lower Upper

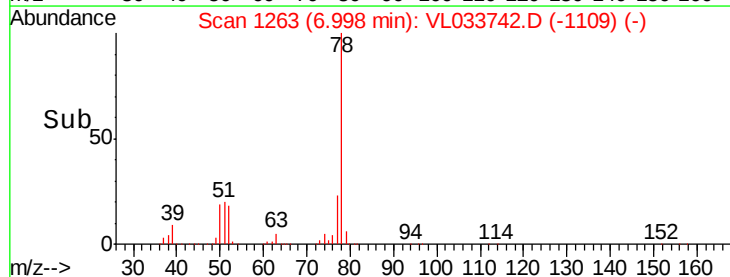
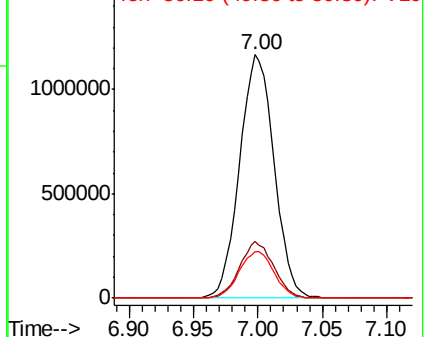
78 100

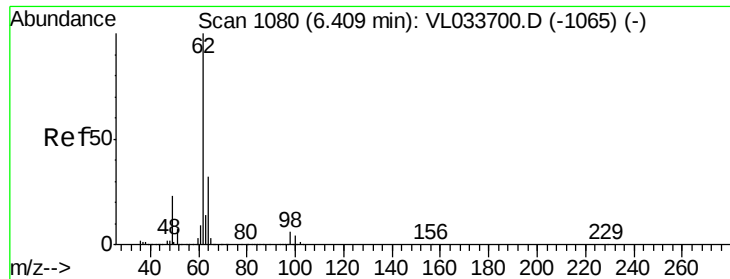
77 23.1 18.4 27.6

50 18.9 15.5 23.3



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: 9.519 ppbv

RT: 6.41 min Scan# 1079

Delta R.T. -0.00 min

Lab File: VL033742.D

Acq: 22 May 2019 12:49

Instrument :

MSVOA_L

ClientSampleId :

VL0522ABS01DUP

Tot Ion: 62 Resp: 1372698

Ion Ratio Lower Upper

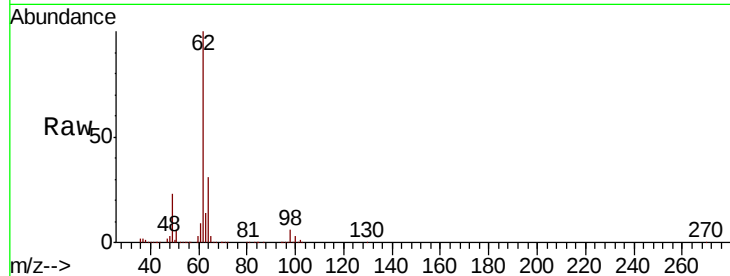
62 100

98 5.5 4.5 6.7

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

800000

600000

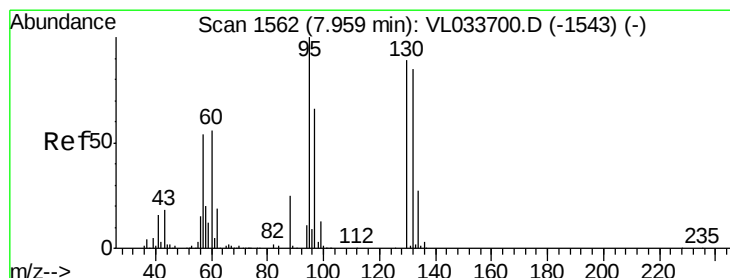
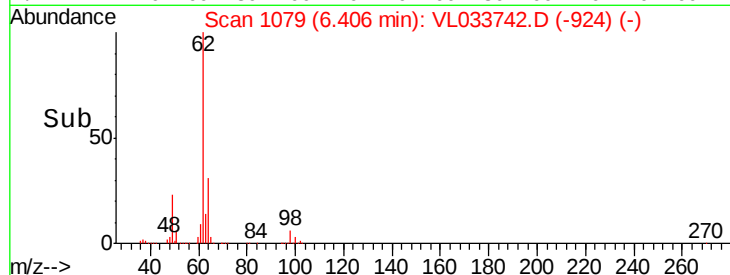
400000

200000

0

6.35 6.40 6.45

Time-->



#38

Trichloroethene

Concen: 10.779 ppbv

RT: 7.95 min Scan# 1560

Delta R.T. -0.01 min

Lab File: VL033742.D

Acq: 22 May 2019 12:49

Tgt Ion:130 Resp: 894083

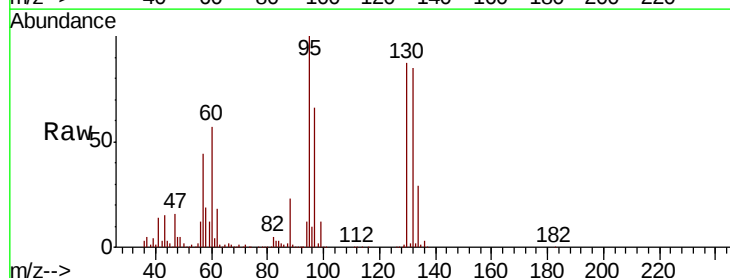
Ion Ratio Lower Upper

130 100

95 114.8 90.2 135.4

132 97.2 76.4 114.6

97 75.5 59.8 89.6



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

800000

600000

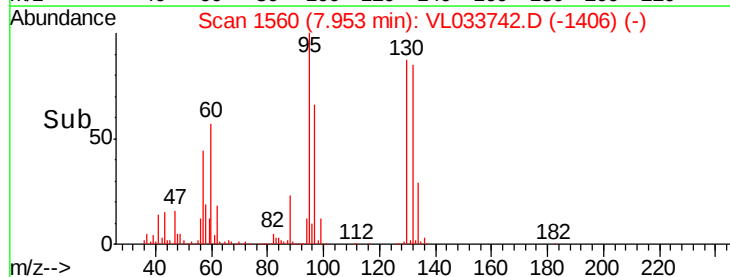
400000

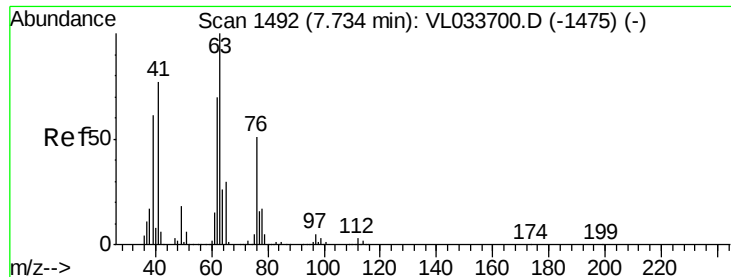
200000

0

7.85 7.90 7.95 8.00 8.05

Time-->





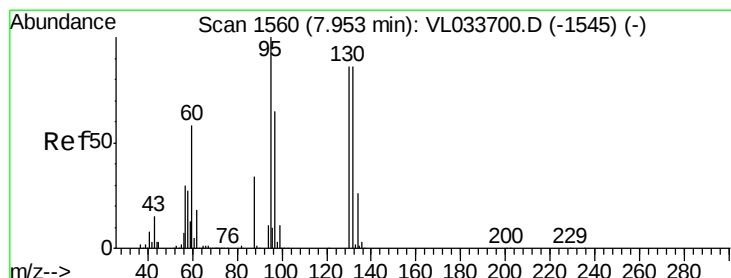
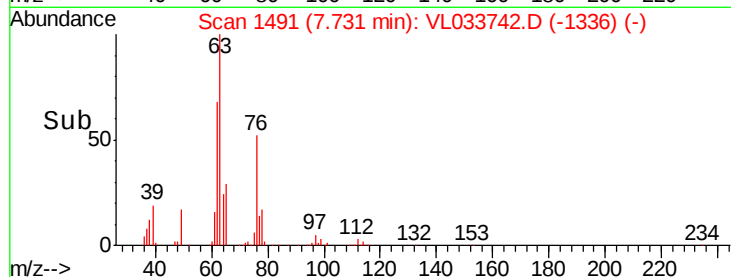
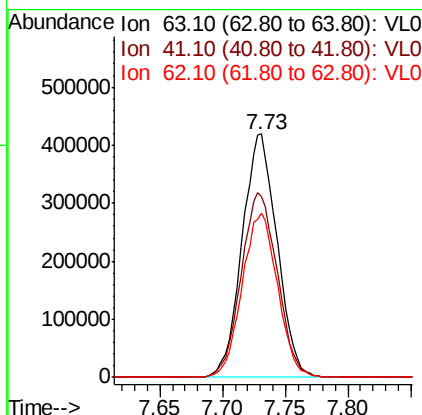
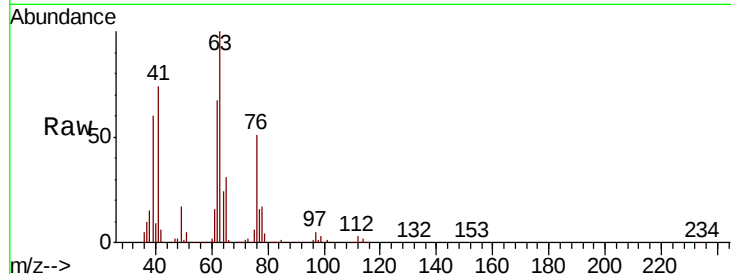
#39
 1,2-Dichloropropane
 Concen: 9.747 ppbv
 RT: 7.73 min Scan# 1491
 Delta R.T. -0.00 min
 Lab File: VL033742.D
 Acq: 22 May 2019 12:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0522ABS01DUP

Tot Ion:	63	Resp:	812395
Ion	Ratio	Lower	Upper
63	100		
41	74.4	61.5	92.3
62	67.4	56.2	84.4

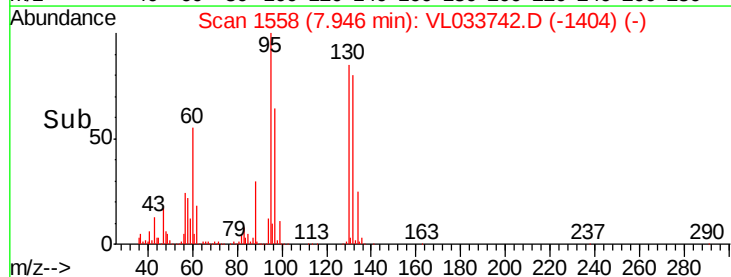
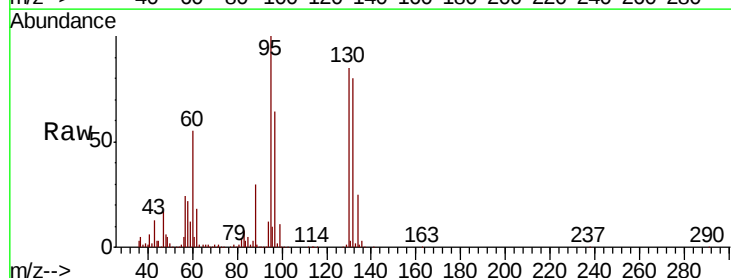
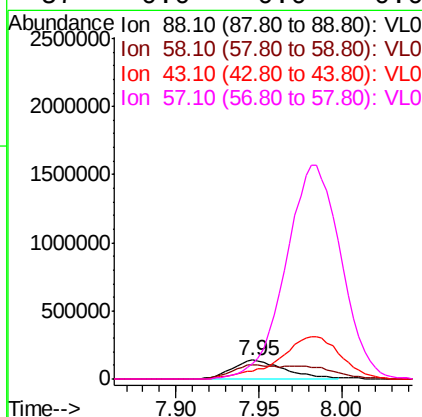
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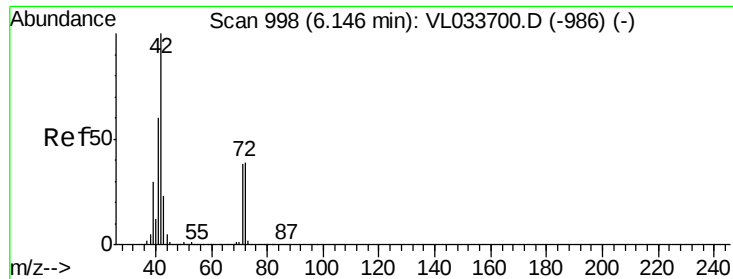
MMDadoda
 5/28/2019 2:50:42 AM



#40
 1,4-Dioxane
 Concen: 8.511 ppbv
 RT: 7.95 min Scan# 1558
 Delta R.T. -0.01 min
 Lab File: VL033742.D
 Acq: 22 May 2019 12:49

Tgt Ion:	88	Resp:	296745
Ion	Ratio	Lower	Upper
88	100		
58	133.3	101.8	152.6
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 10.222 ppbv

RT: 6.14 min Scan# 996

Delta R.T. -0.01 min

Lab File: VL033742.D

Acq: 22 May 2019 12:49

Instrument :

MSVOA_L

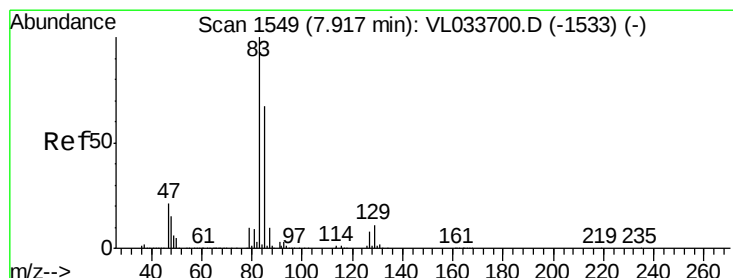
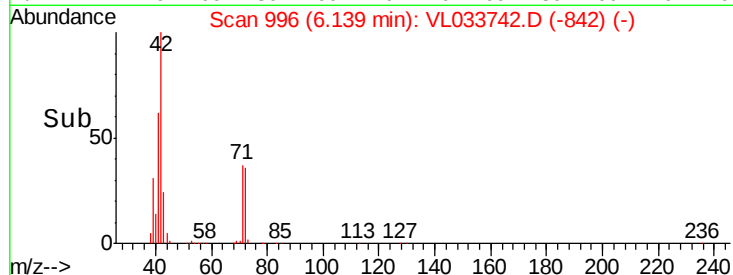
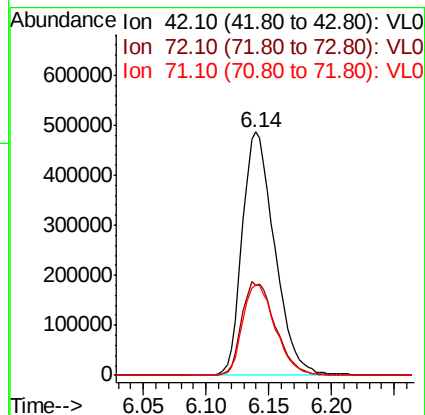
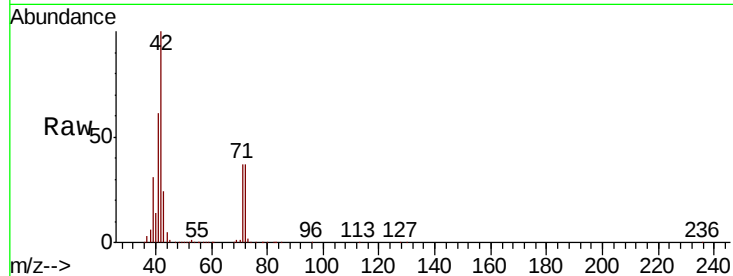
ClientSampleId :

VL0522ABS01DUP

Tot Ion:	42	Resp:	872426
Ion	Ratio	Lower	Upper
42	100		
72	40.1	32.0	48.0
71	37.9	30.4	45.6

Manual Integrations
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#42

Bromodichloromethane

Concen: 9.913 ppbv

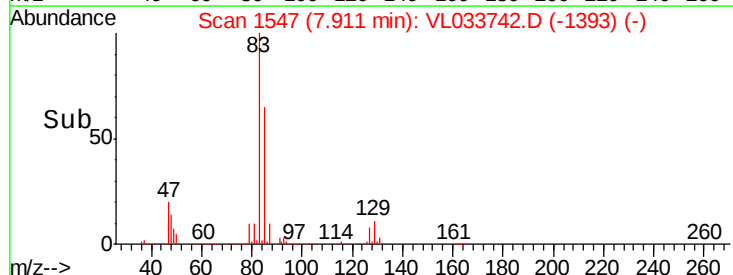
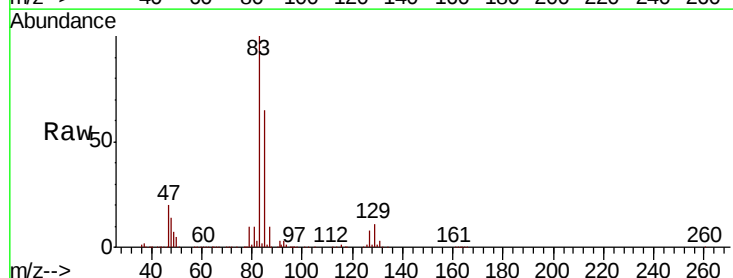
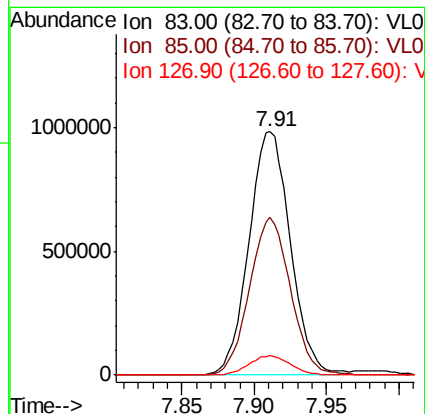
RT: 7.91 min Scan# 1547

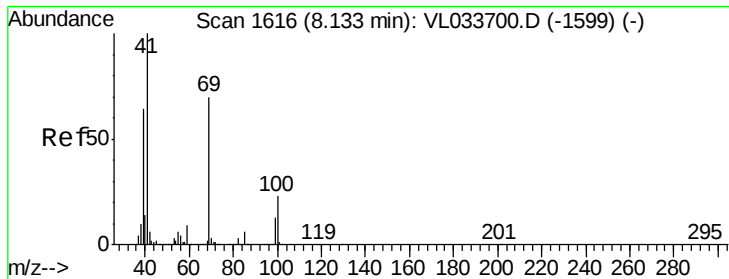
Delta R.T. -0.01 min

Lab File: VL033742.D

Acq: 22 May 2019 12:49

Tgt Ion:	83	Resp:	1956999
Ion	Ratio	Lower	Upper
83	100		
85	64.7	53.3	79.9
127	7.9	6.5	9.7





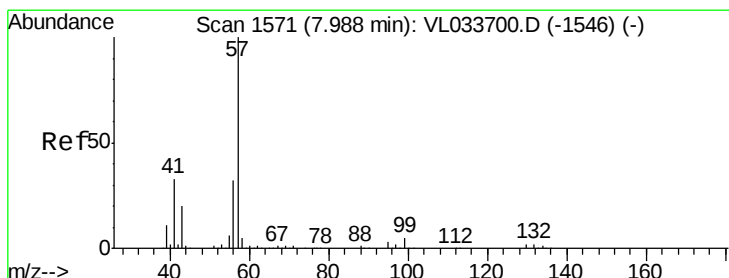
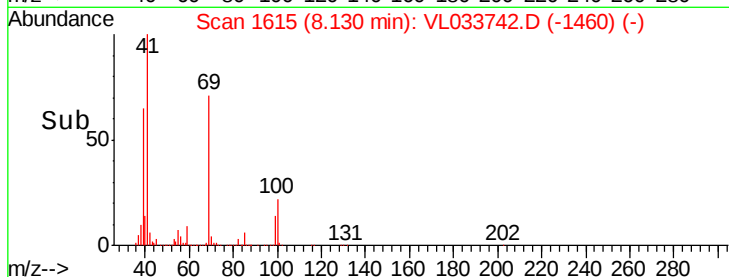
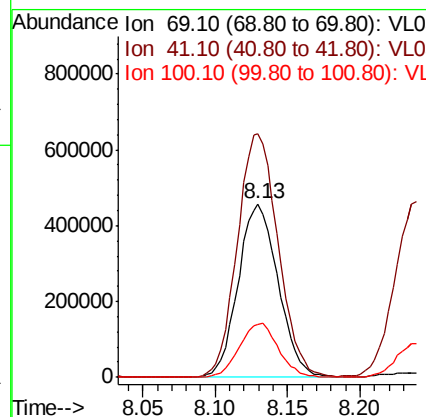
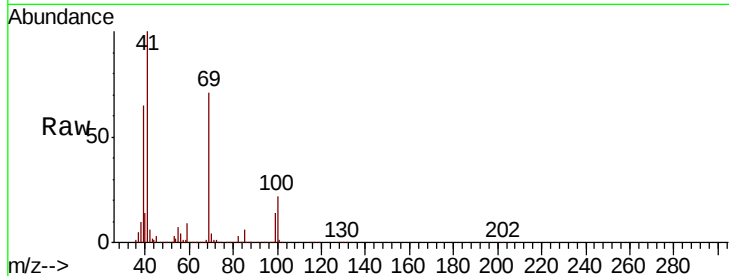
#43
Methvl Methacrvlate
Concen: 10.638 ppbv
RT: 8.13 min Scan# 1615
Delta R.T. -0.00 min
Lab File: VL033742.D
Acq: 22 May 2019 12:49

Instrument :
MSVOA_L
ClientSampleId :
VL0522ABS01DUP

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	143.3	116.3	174.5	
100	30.6	25.3	37.9	

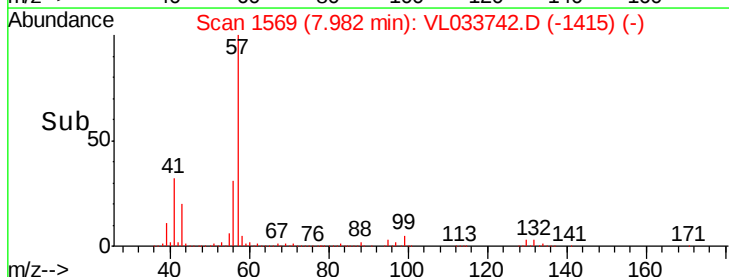
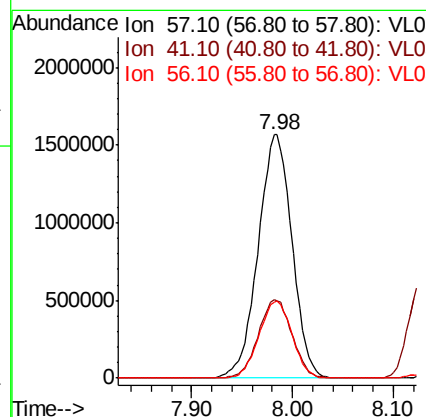
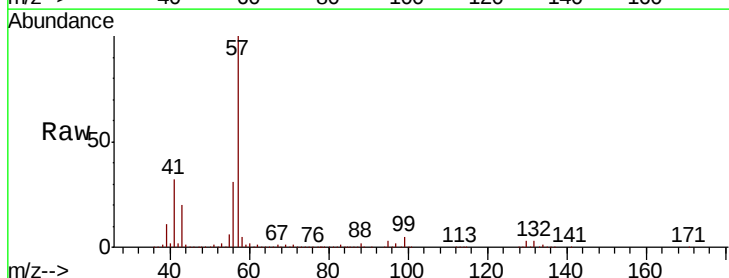
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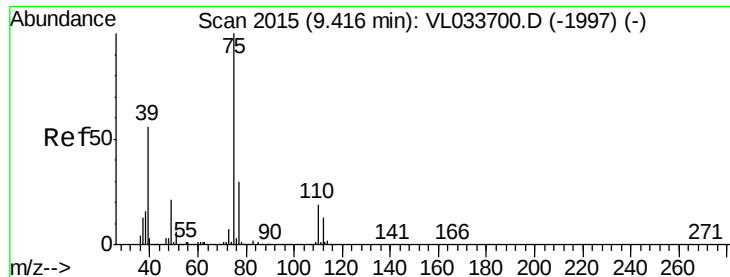
MMDadoda
5/28/2019 2:50:42 AM



#44
2,2,4-Trimethylpentane
Concen: 9.657 ppbv
RT: 7.98 min Scan# 1569
Delta R.T. -0.01 min
Lab File: VL033742.D
Acq: 22 May 2019 12:49

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	32.0	25.4	38.0	
56	31.1	24.7	37.1	





#45

t-1,3-Dichloropropene

Concen: 11.646 ppbv

RT: 9.41 min Scan# 2012

Delta R.T. -0.01 min

Lab File: VL033742.D

Acq: 22 May 2019 12:49

Instrument :

MSVOA_L

ClientSampleId :

VL0522ABS01DUP

Tot Ion: 75 Resp: 1214615

Ion Ratio Lower Upper

75 100

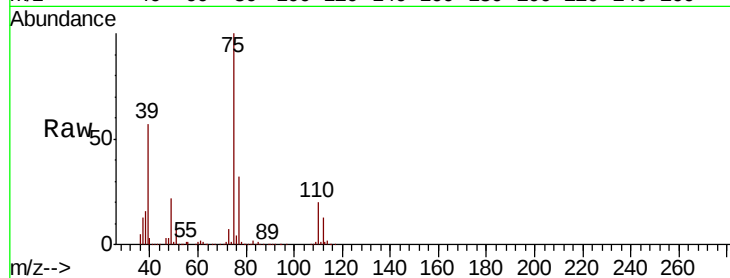
77 32.4 24.4 36.6

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

9.41

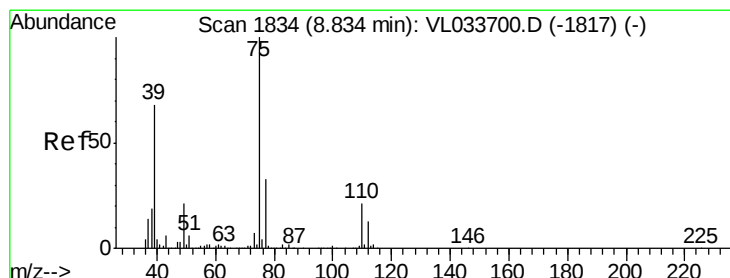
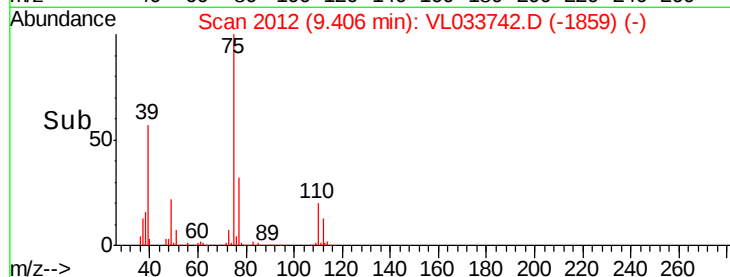
600000

400000

200000

0

Time--> 9.30 9.35 9.40 9.45 9.50



#46

cis-1,3-Dichloropropene

Concen: 11.016 ppbv

RT: 8.83 min Scan# 1832

Delta R.T. -0.01 min

Lab File: VL033742.D

Acq: 22 May 2019 12:49

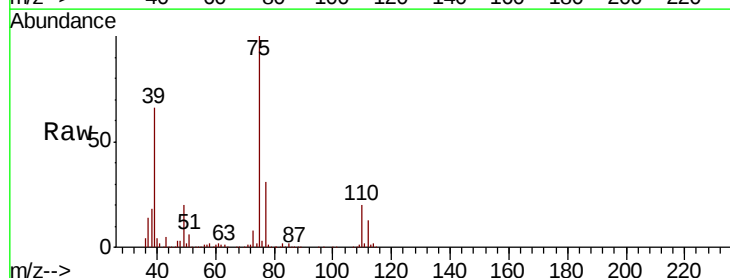
Tgt Ion: 75 Resp: 1345265

Ion Ratio Lower Upper

75 100

39 66.3 54.4 81.6

77 31.3 26.6 39.8



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

8.83

800000

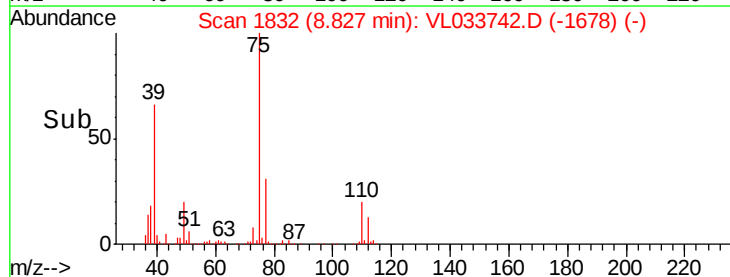
600000

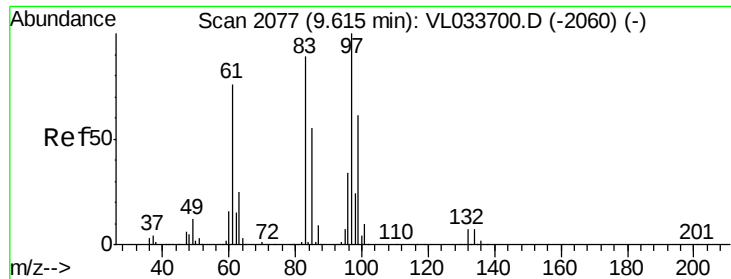
400000

200000

0

Time--> 8.75 8.80 8.85 8.90





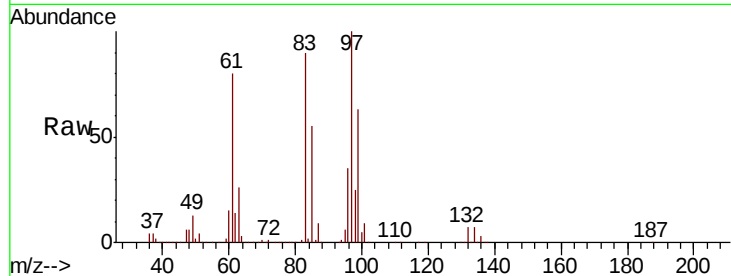
#47
 1,1,2-Trichloroethane
 Concen: 9.814 ppbv
 RT: 9.61 min Scan# 2074
 Delta R.T. -0.01 min
 Lab File: VL033742.D
 Acq: 22 May 2019 12:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0522ABS01DUP

Tot Ion	Ratio	Lower	Upper
97	100		
83	90.2	70.8	106.2
85	55.0	43.7	65.5
99	63.4	48.7	73.1

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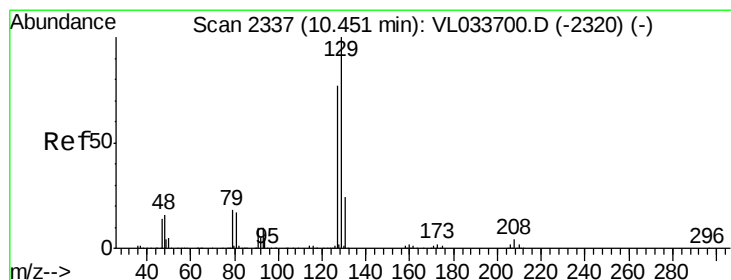
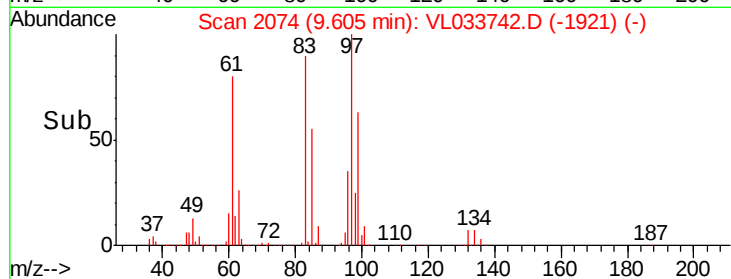
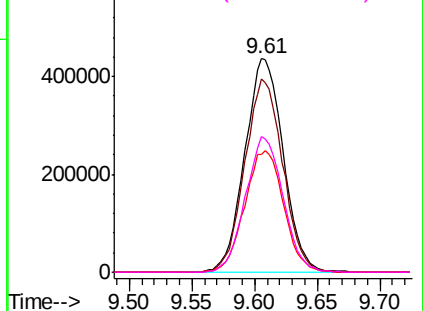
Abundance

Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

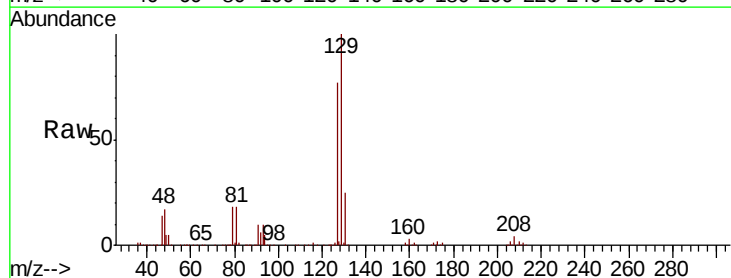
Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48
 Dibromochloromethane
 Concen: 10.431 ppbv
 RT: 10.44 min Scan# 2335
 Delta R.T. -0.01 min
 Lab File: VL033742.D
 Acq: 22 May 2019 12:49

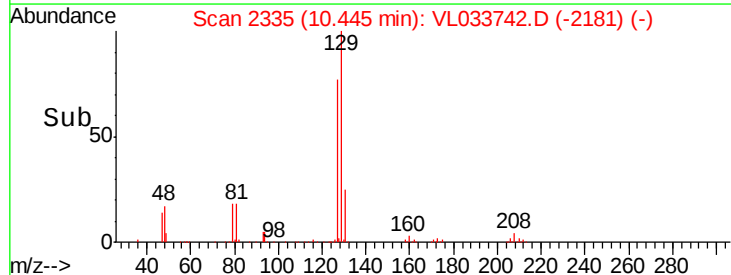
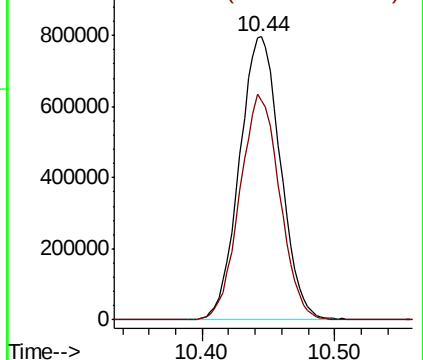
Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.1	38.6	116.0

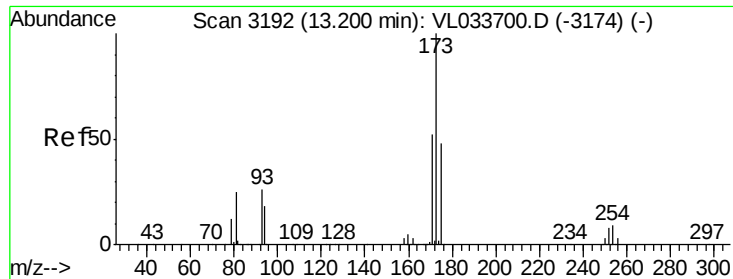


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 11.276 ppbv

RT: 13.20 min Scan# 3191

Delta R.T. -0.00 min

Lab File: VL033742.D

Acq: 22 May 2019 12:49

Instrument :

MSVOA_L

ClientSampleId :

VL0522ABS01DUP

Tot Ion:173 Resp: 1556498

Ion Ratio Lower Upper

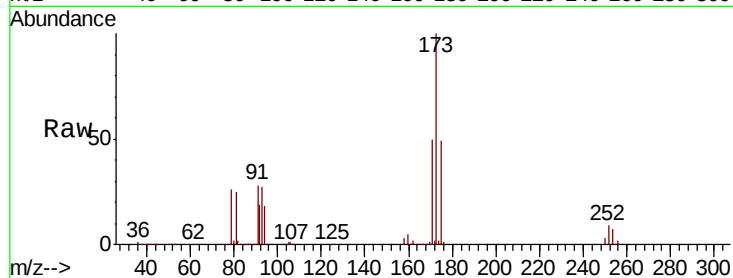
173 100

175 48.7 38.6 58.0

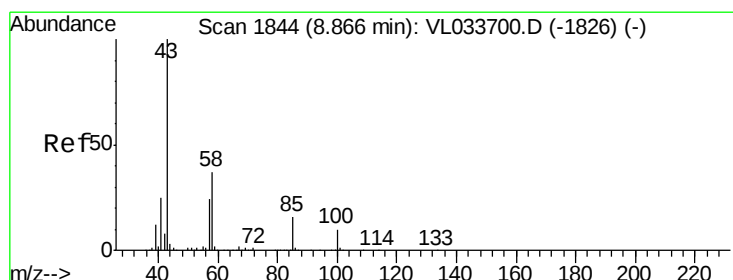
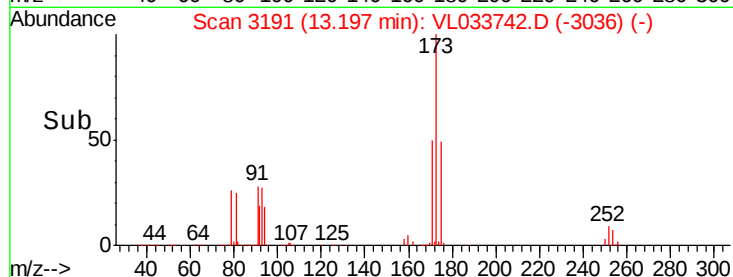
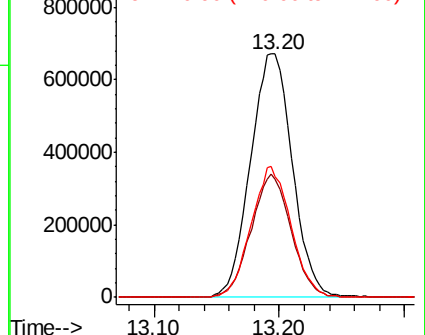
171 51.4 41.5 62.3

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



#50

4-Methyl-2-Pentanone

Concen: 10.061 ppbv

RT: 8.86 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VL033742.D

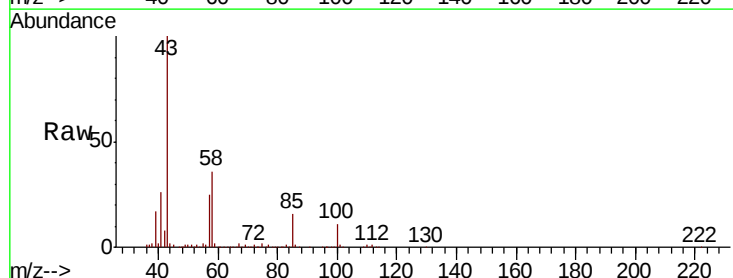
Acq: 22 May 2019 12:49

Tgt Ion: 43 Resp: 2357211

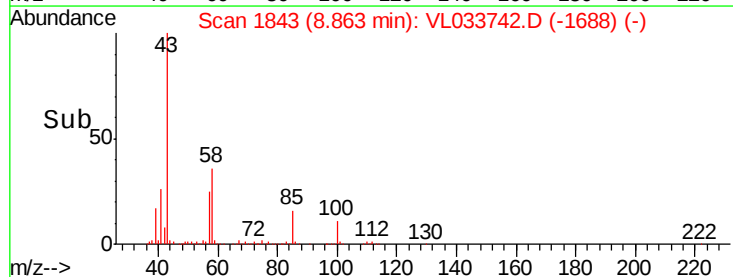
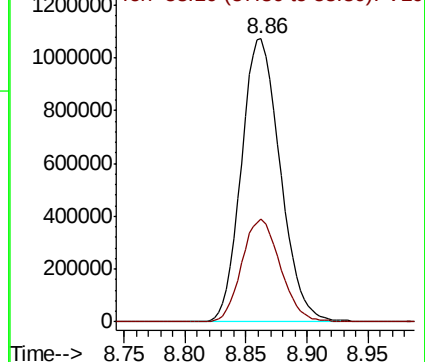
Ion Ratio Lower Upper

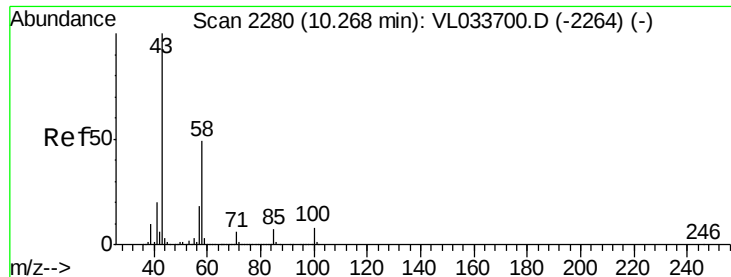
43 100

58 36.2 28.6 43.0



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





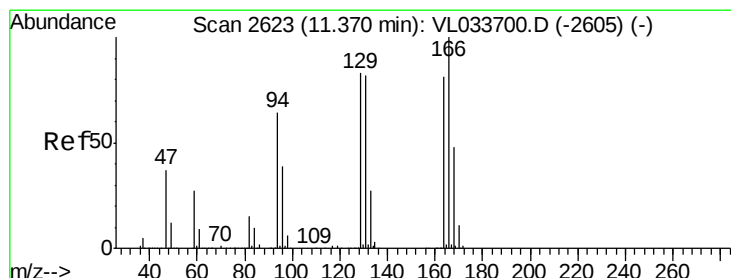
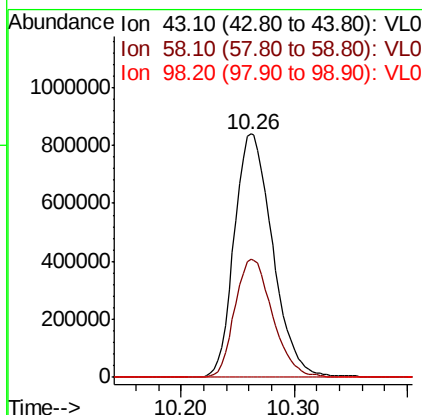
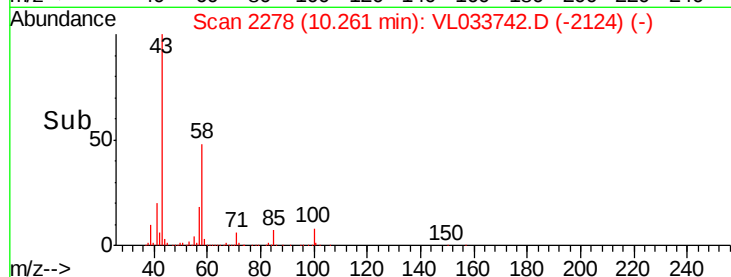
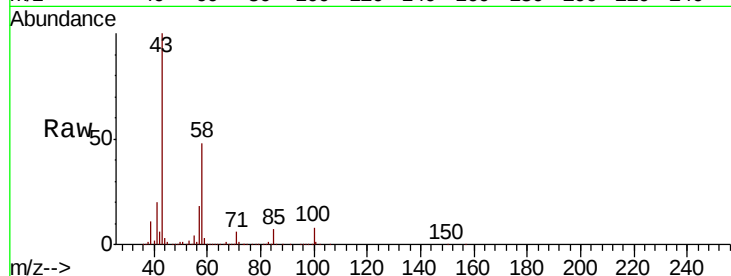
#51
2-Hexanone
Concen: 10.823 ppbv
RT: 10.26 min Scan# 2278
Delta R.T. -0.01 min
Lab File: VL033742.D
Acq: 22 May 2019 12:49

Instrument :
MSVOA_L
ClientSampleId :
VL0522ABS01DUP

Tot Ion: 43 Resp: 1979184
Ion Ratio Lower Upper
43 100
58 48.0 38.7 58.1
98 0.4 0.2 0.4#

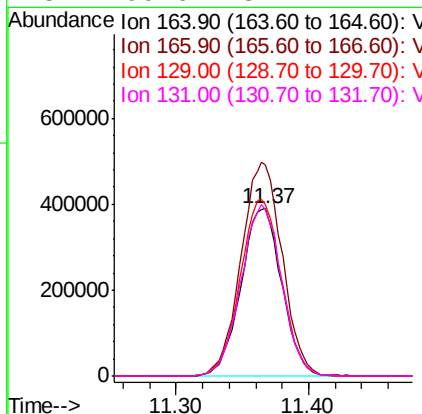
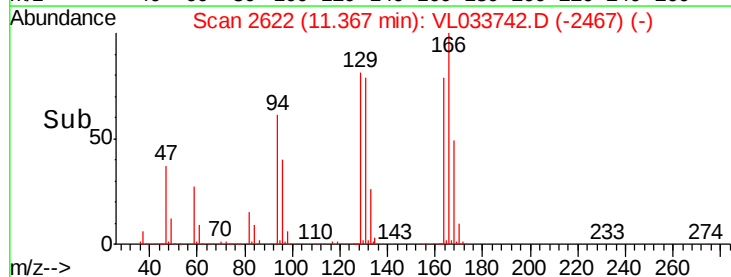
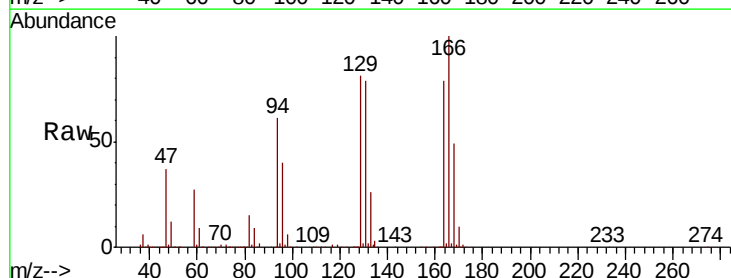
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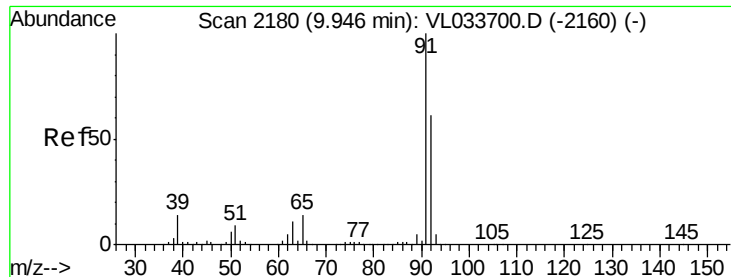
MMDadoda
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#52
Tetrachloroethene
Concen: 10.611 ppbv
RT: 11.37 min Scan# 2622
Delta R.T. -0.00 min
Lab File: VL033742.D
Acq: 22 May 2019 12:49

Tgt Ion: 164 Resp: 833853
Ion Ratio Lower Upper
164 100
166 126.3 98.9 148.3
129 102.6 81.8 122.6
131 99.6 81.1 121.7





#53

Toluene

Concen: 10.718 ppbv

RT: 9.94 min Scan# 2177

Delta R.T. -0.01 min

Lab File: VL033742.D

Acq: 22 May 2019 12:49

Instrument :

MSVOA_L

ClientSampleId :

VL0522ABS01DUP

Tot Ion: 91 Resp: 2584153

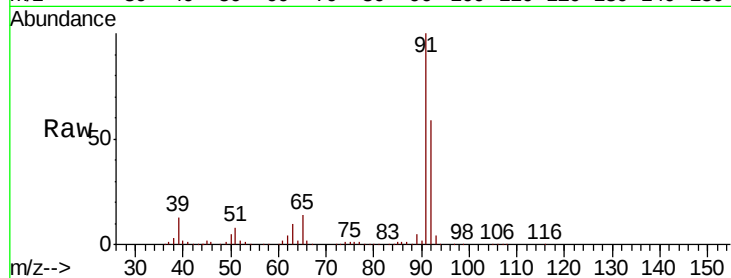
Ion Ratio Lower Upper

91 100

92 59.8 47.6 71.4

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Abundance Ion 91.10 (90.80 to 91.80): VL0

1500000 Ion 92.10 (91.80 to 92.80): VL0

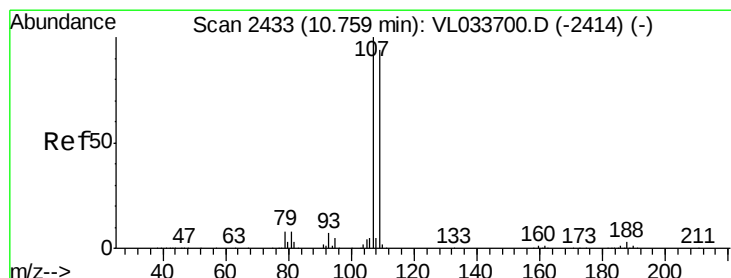
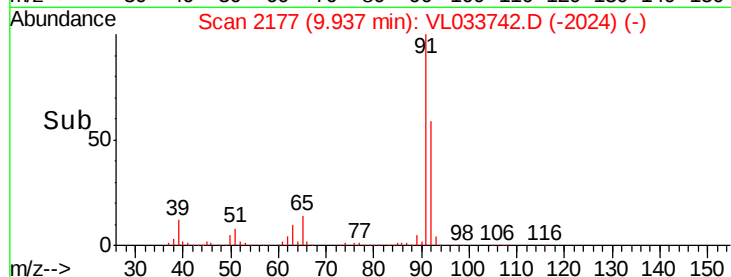
9.94

1000000

500000

0

Time-->



#54

1,2-Dibromoethane

Concen: 10.148 ppbv

RT: 10.75 min Scan# 2431

Delta R.T. -0.01 min

Lab File: VL033742.D

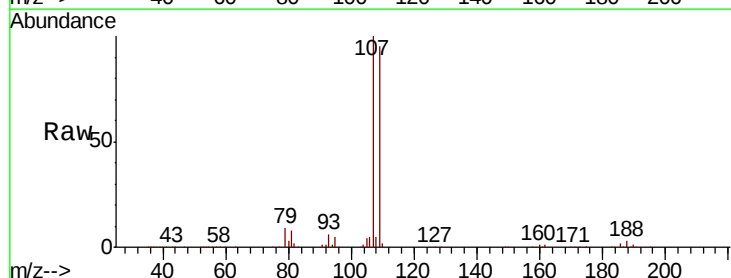
Acq: 22 May 2019 12:49

Tgt Ion:107 Resp: 1466295

Ion Ratio Lower Upper

107 100

109 95.3 75.2 112.8



Abundance Ion 107.00 (106.70 to 107.70): V

800000 Ion 109.00 (108.70 to 109.70): V

10.75

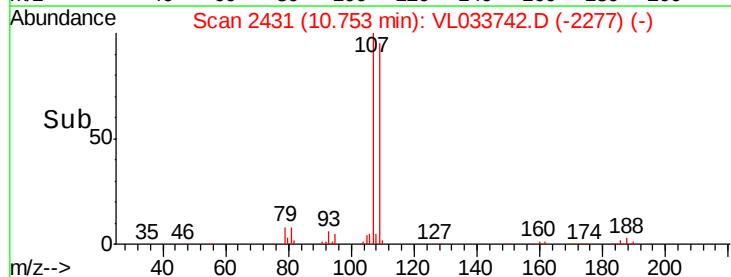
600000

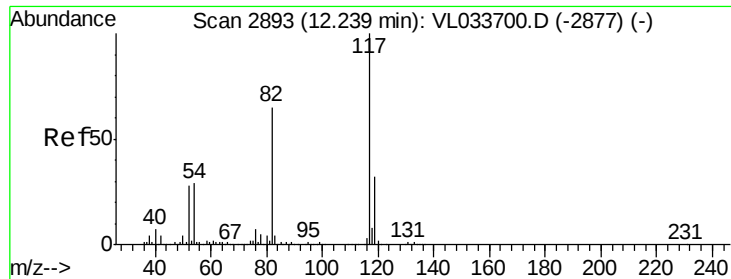
400000

200000

0

Time-->





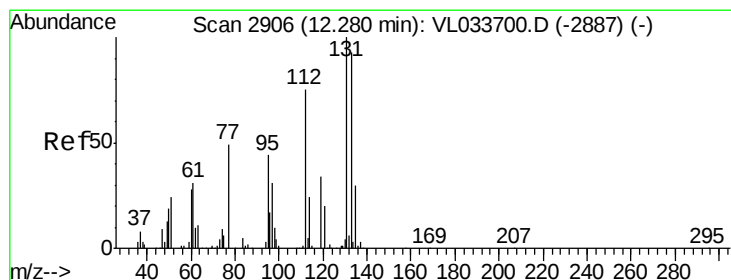
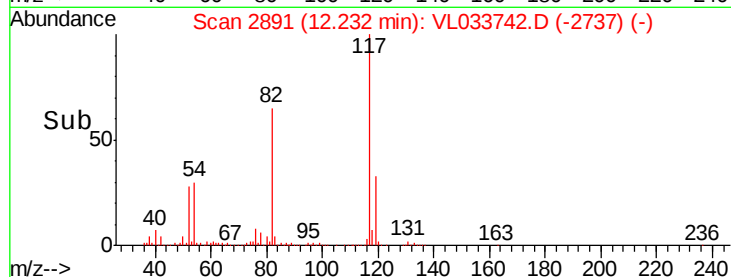
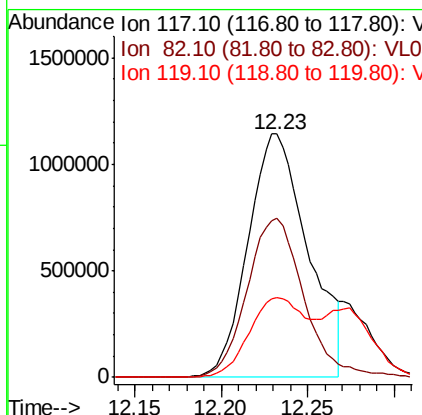
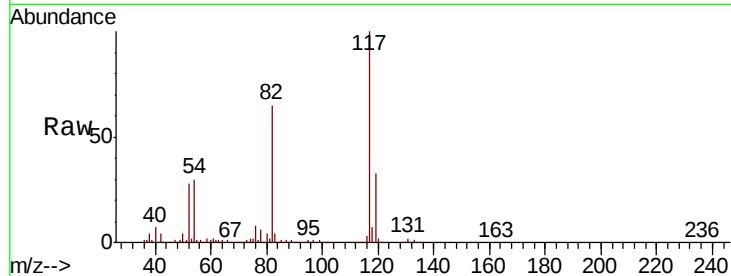
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.23 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL033742.D
Acq: 22 May 2019 12:49

Instrument :
MSVOA_L
ClientSampleId :
VL0522ABS01DUP

Tot Ion:117 Resp: 2767999
Ion Ratio Lower Upper
117 100
82 61.9 49.4 74.0
119 33.6 24.9 37.3

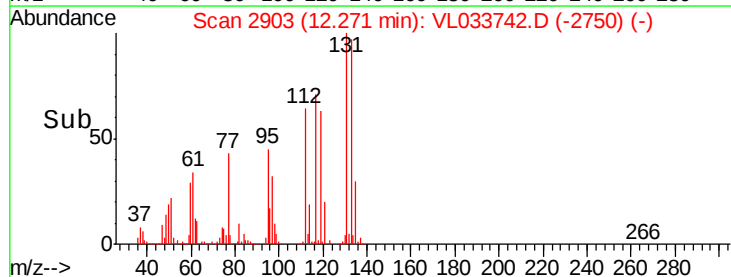
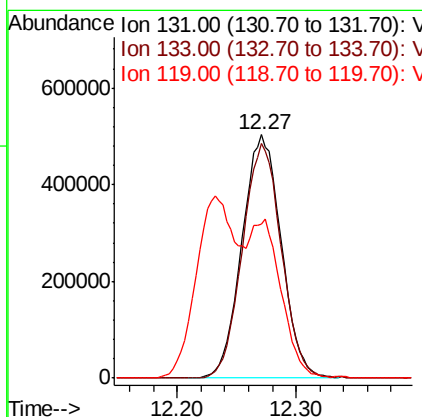
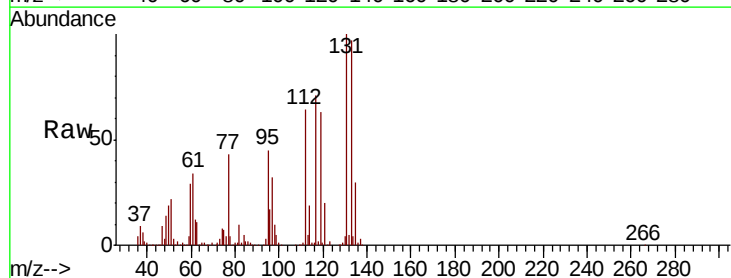
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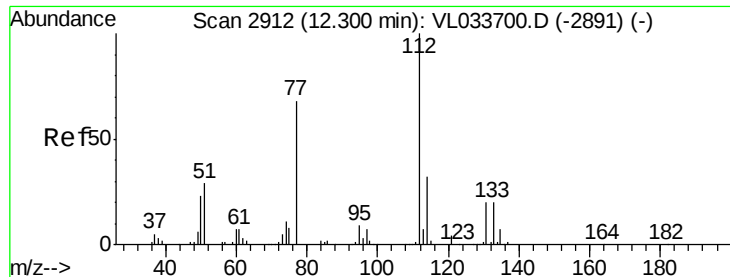
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.950 ppbv
RT: 12.27 min Scan# 2903
Delta R.T. -0.01 min
Lab File: VL033742.D
Acq: 22 May 2019 12:49

Tgt Ion:131 Resp: 1146311
Ion Ratio Lower Upper
131 100
133 95.9 76.6 114.8
119 52.1 49.0 73.4





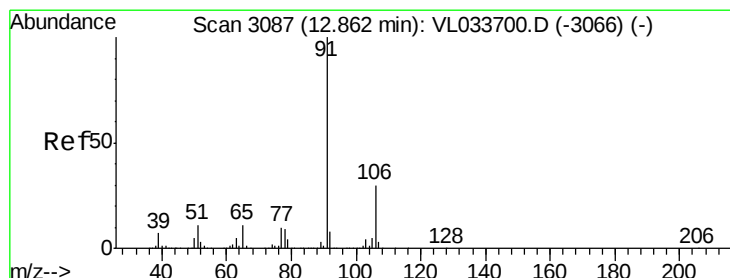
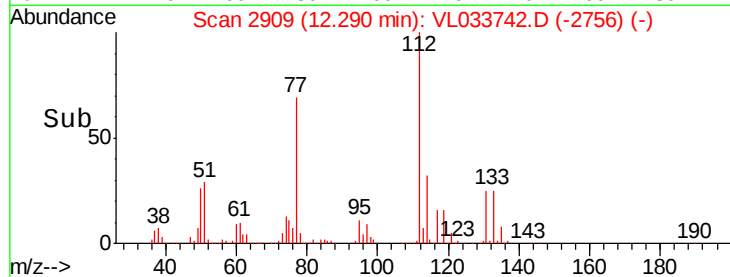
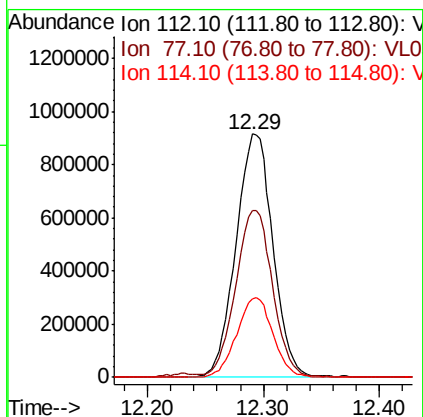
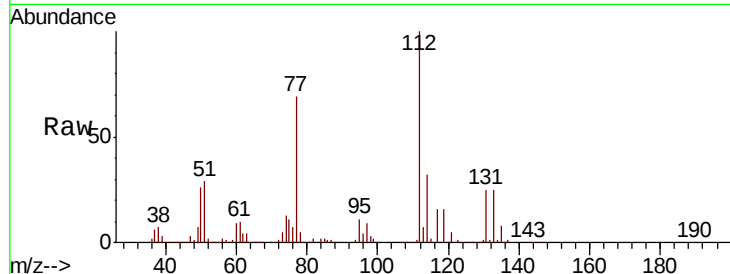
#57
Chlorobenzene
Concen: 8.872 ppbv
RT: 12.29 min Scan# 2909
Delta R.T. -0.01 min
Lab File: VL033742.D
Acq: 22 May 2019 12:49

Instrument :
MSVOA_L
ClientSampleId :
VL0522ABS01DUP

Tot Ion	Ratio	Lower	Upper
112	100		
77	68.3	55.4	83.0
114	32.0	29.3	35.8

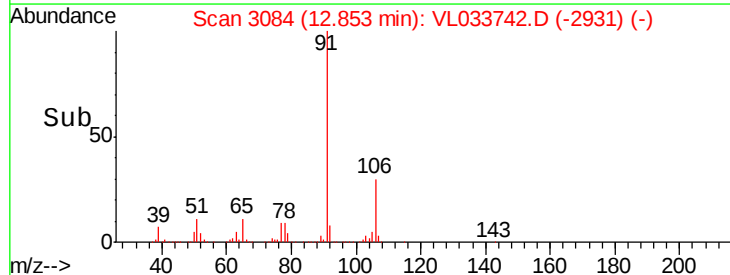
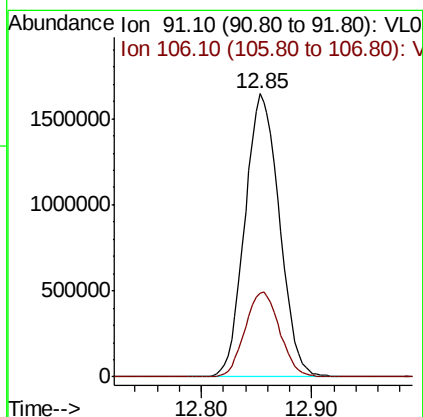
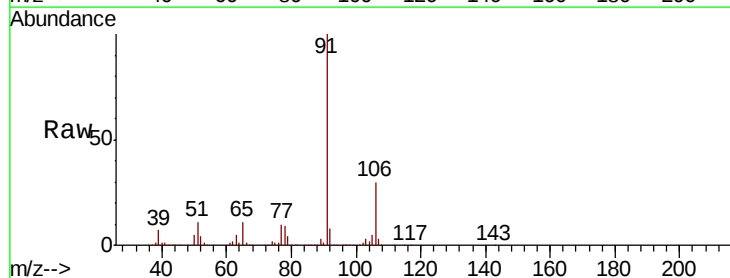
Manual Integrations
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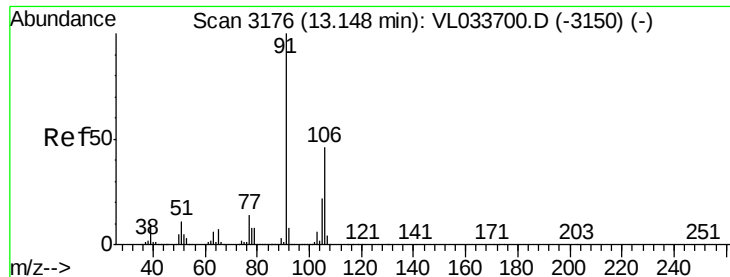
MMDadoda
5/28/2019 2:50:42 AM



#58
Ethyl Benzene
Concen: 9.747 ppbv
RT: 12.85 min Scan# 3084
Delta R.T. -0.01 min
Lab File: VL033742.D
Acq: 22 May 2019 12:49

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.7	23.9	35.9





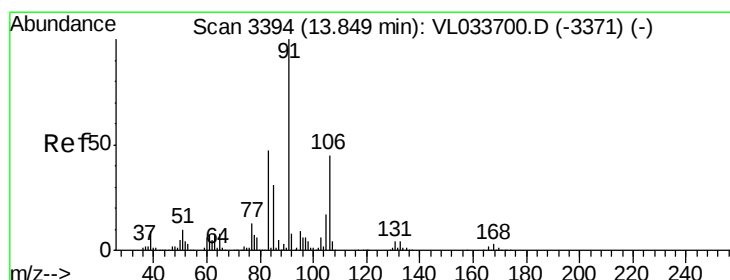
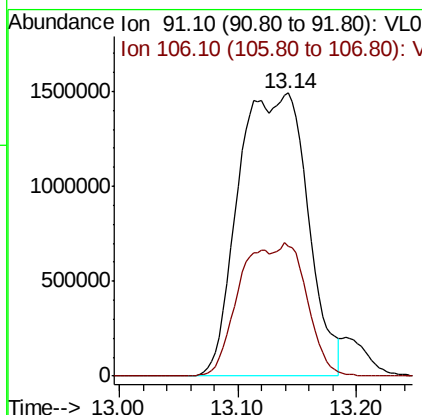
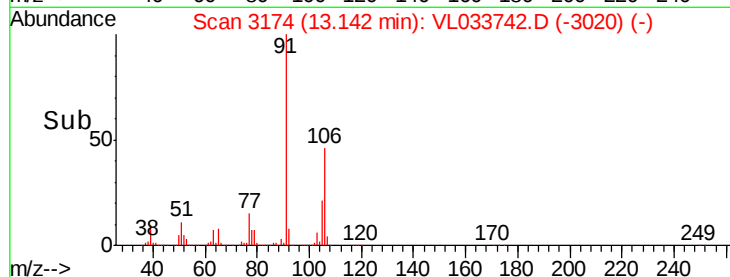
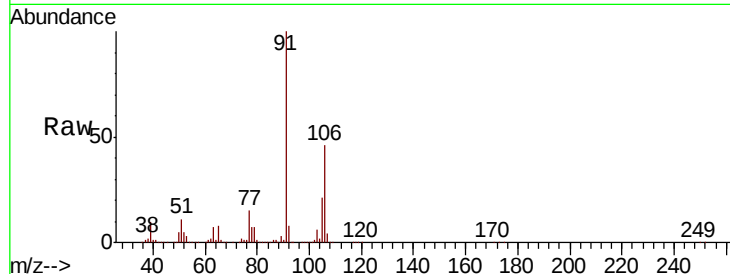
#59
m/p-Xylene
Concen: 18.659 ppbv m
RT: 13.14 min Scan# 3174
Delta R.T. -0.01 min
Lab File: VL033742.D
Acq: 22 May 2019 12:49

Instrument :
MSVOA_L
ClientSampleId :
VL0522ABS01DUP

Tot Ion: 91 Resp: 5978727
Ion Ratio Lower Upper
91 100
106 45.3 35.8 53.6

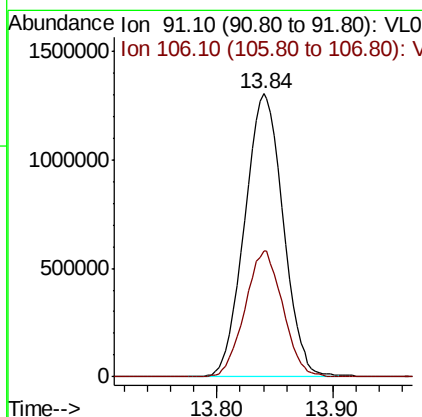
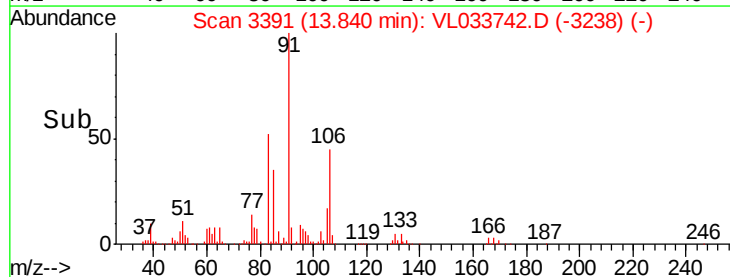
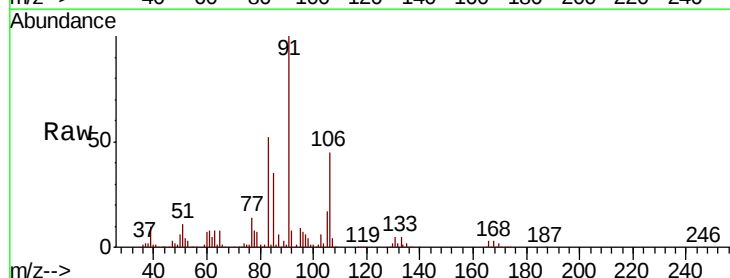
Manual Integrations
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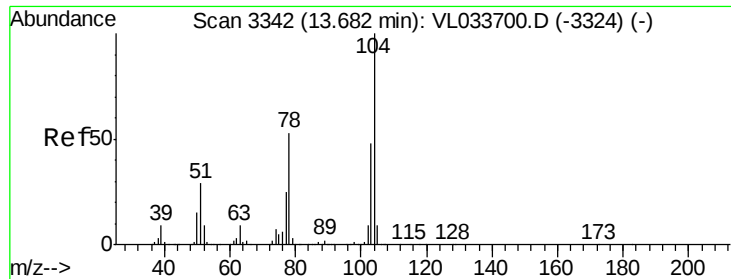
MMDadoda
5/28/2019 2:50:42 AM



#60
o-Xylene
Concen: 9.339 ppbv
RT: 13.84 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL033742.D
Acq: 22 May 2019 12:49

Tgt Ion: 91 Resp: 3016538
Ion Ratio Lower Upper
91 100
106 43.8 21.6 64.8





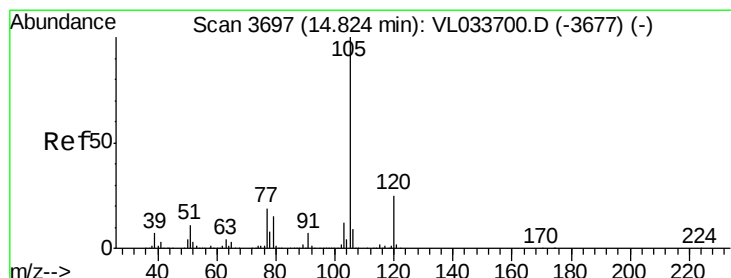
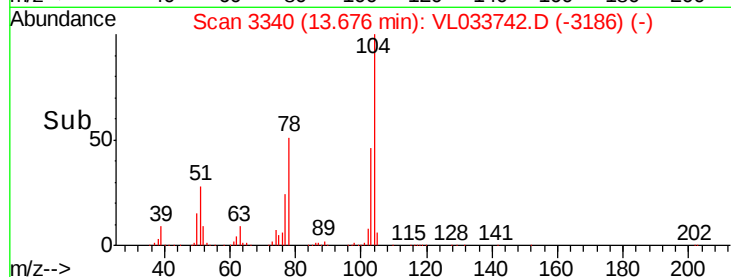
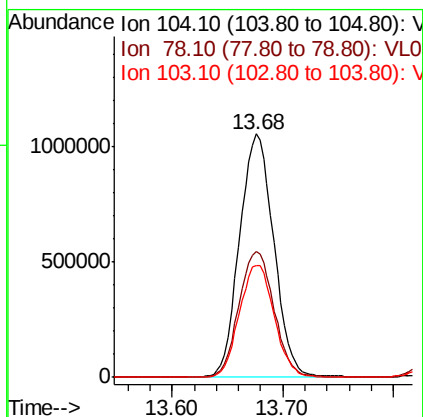
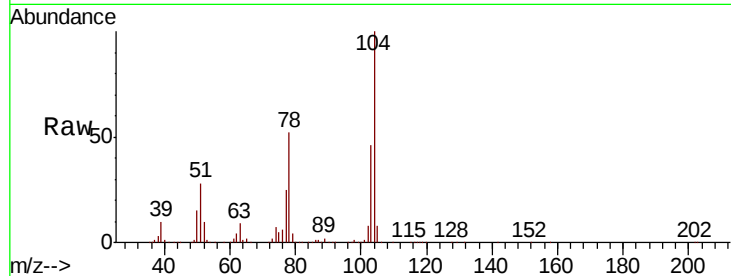
#61
Stvrene
Concen: 10.441 ppbv
RT: 13.68 min Scan# 3340
Delta R.T. -0.01 min
Lab File: VL033742.D
Acq: 22 May 2019 12:49

Instrument :
MSVOA_L
ClientSampleId :
VL0522ABS01DUP

Tot Ion:104 Resp: 2270636
Ion Ratio Lower Upper
104 100
78 53.1 42.6 64.0
103 47.1 37.8 56.6

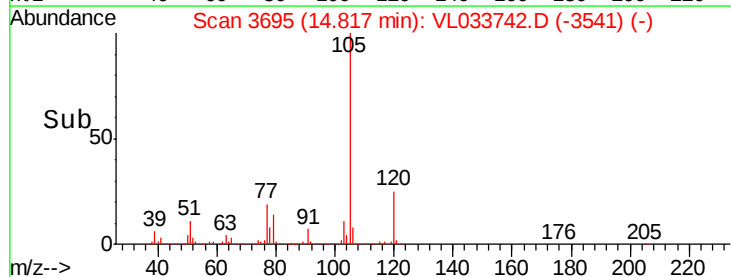
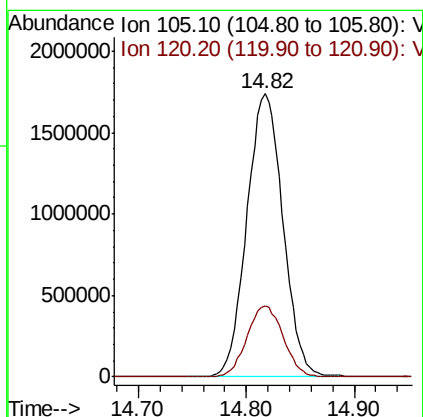
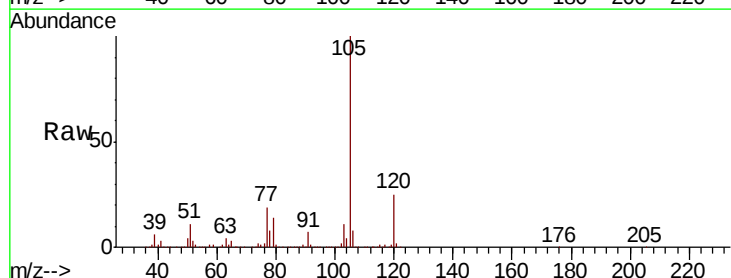
Manual Integrations
APPROVED

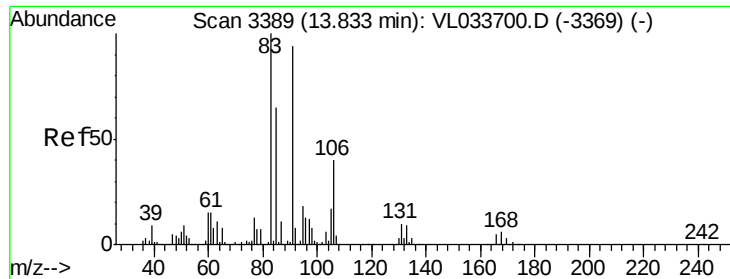
MMDadoda
5/28/2019 2:50:42 AM



#62
Isopropylbenzene
Concen: 9.291 ppbv
RT: 14.82 min Scan# 3695
Delta R.T. -0.01 min
Lab File: VL033742.D
Acq: 22 May 2019 12:49

Tgt Ion:105 Resp: 4041628
Ion Ratio Lower Upper
105 100
120 25.3 20.1 30.1





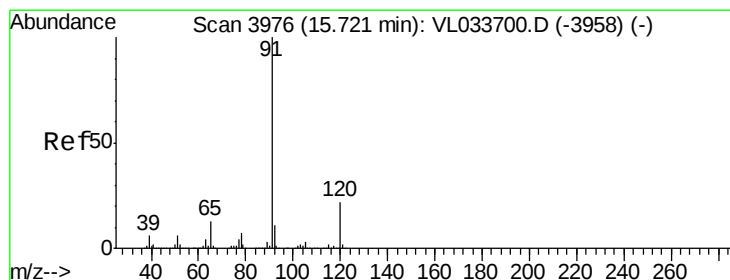
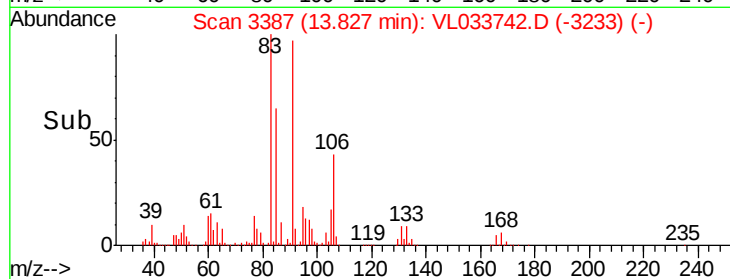
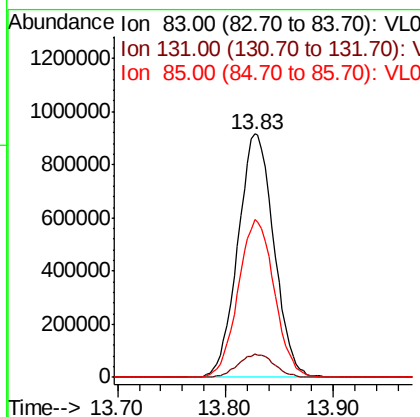
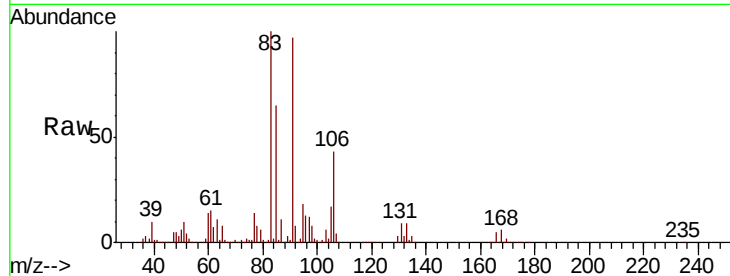
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.069 ppbv
 RT: 13.83 min Scan# 3387
 Delta R.T. -0.01 min
 Lab File: VL033742.D
 Acq: 22 May 2019 12:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0522ABS01DUP

Tot Ion	83	Resp	2130302
Ion Ratio	100	Lower	Upper
83	100		
131	9.6	4.8	14.3
85	65.0	32.3	96.9

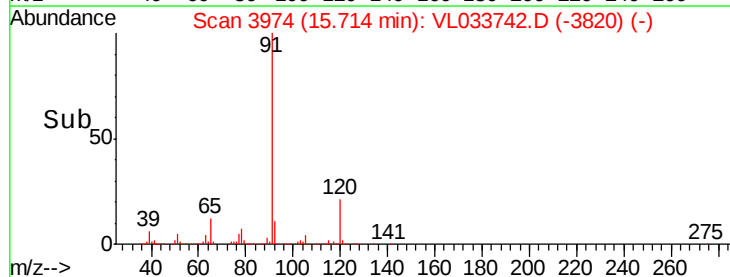
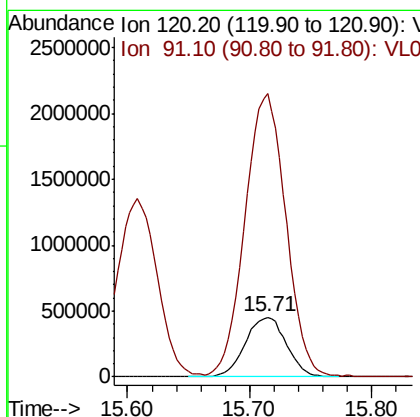
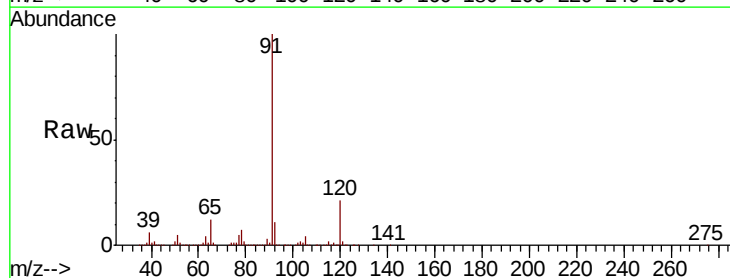
Manual Integrations
 APPROVED

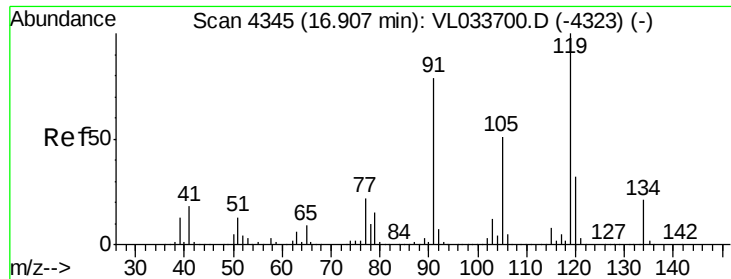
MMDadoda
 5/28/2019 2:50:42 AM



#64
 n-propylbenzene
 Concen: 9.328 ppbv
 RT: 15.71 min Scan# 3974
 Delta R.T. -0.01 min
 Lab File: VL033742.D
 Acq: 22 May 2019 12:49

Tgt Ion	120	Resp	1049526
Ion Ratio	100	Lower	Upper
120	100		
91	475.9	379.1	568.7





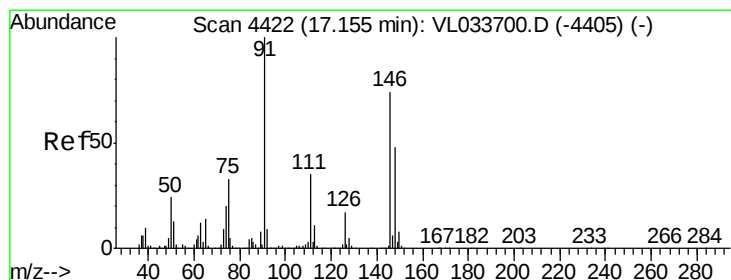
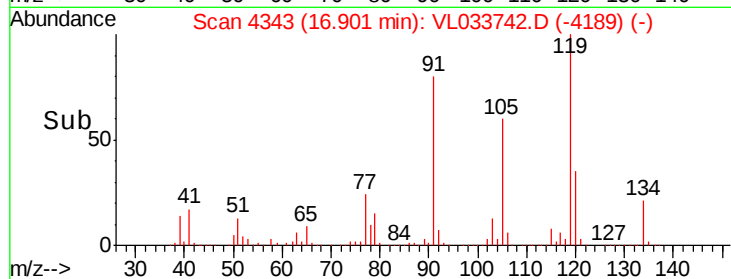
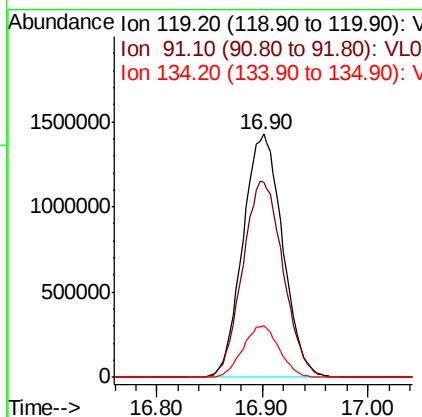
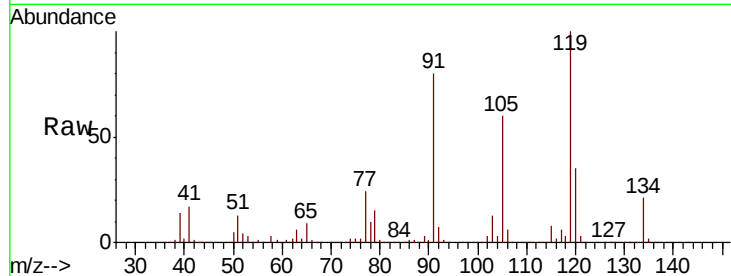
#65
tert-Butylbenzene
Concen: 9.411 ppbv
RT: 16.90 min Scan# 4343
Delta R.T. -0.01 min
Lab File: VL033742.D
Acq: 22 May 2019 12:49

Instrument :
MSVOA_L
ClientSampleId :
VL0522ABS01DUP

Tot Ion: 119 Resp: 3737572
Ion Ratio Lower Upper
119 100
91 82.4 65.3 97.9
134 19.5 15.7 23.5

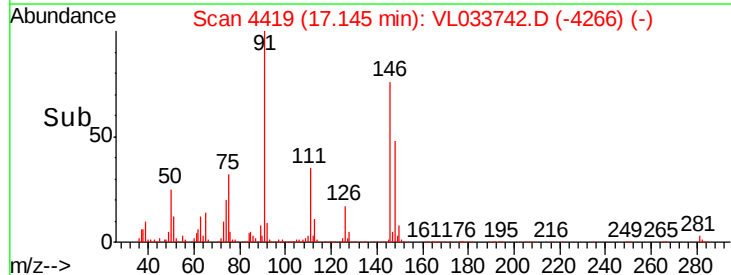
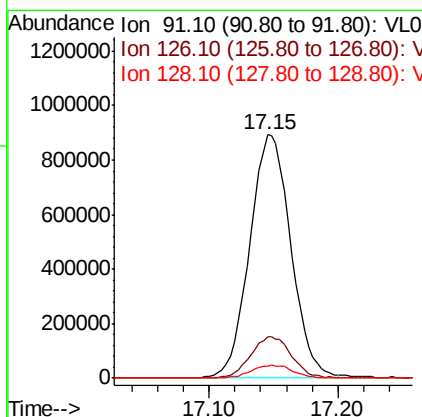
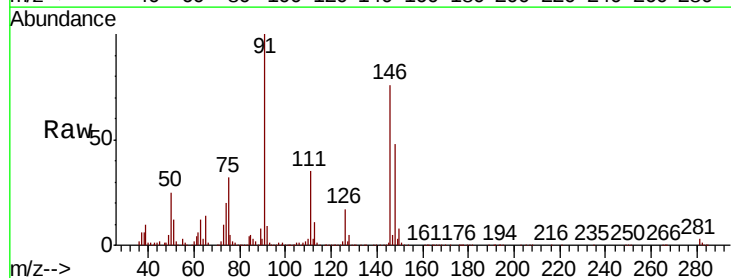
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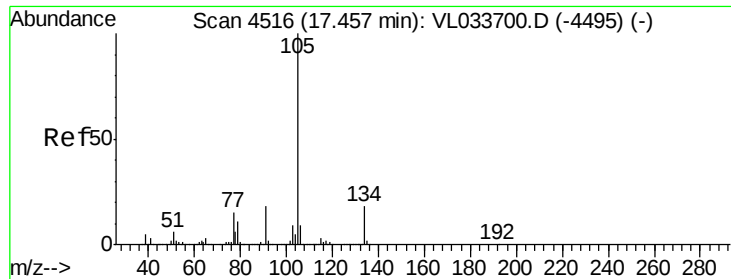
MMDadoda
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#66
Benzyl Chloride
Concen: 10.458 ppbv
RT: 17.15 min Scan# 4419
Delta R.T. -0.01 min
Lab File: VL033742.D
Acq: 22 May 2019 12:49

Tgt Ion: 91 Resp: 1978280
Ion Ratio Lower Upper
91 100
126 17.1 13.5 20.3
128 5.4 4.3 6.5





#67

sec-Butylbenzene

Concen: 9.348 ppbv

RT: 17.45 min Scan# 4514

Delta R.T. -0.01 min

Lab File: VL033742.D

Acq: 22 May 2019 12:49

Instrument :

MSVOA_L

ClientSampleId :

VL0522ABS01DUP

Tot Ion:105 Resp: 5196164

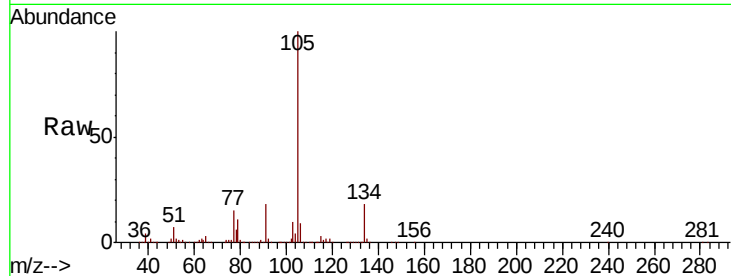
Ion Ratio Lower Upper

105 100

134 18.3 14.6 22.0

Manual Integrations
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MMDadoda
5/28/2019 2:50:42 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

2500000

2000000

1500000

1000000

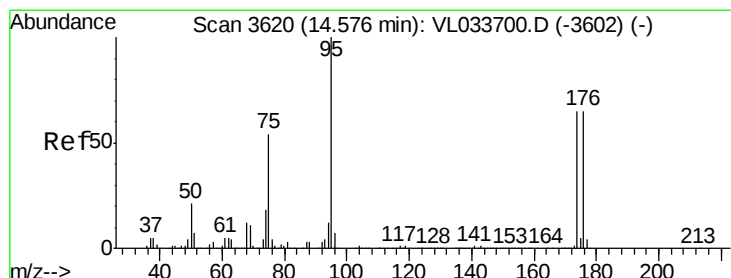
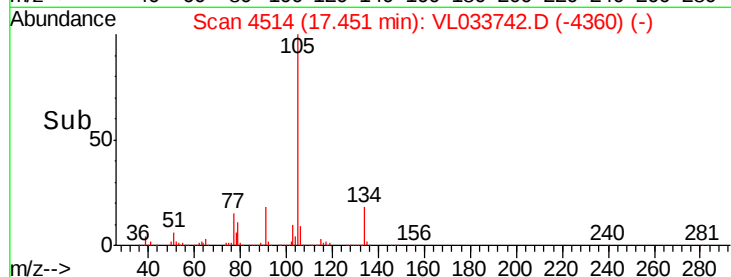
500000

0

17.40

17.50

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.312 ppbv

RT: 14.57 min Scan# 3618

Delta R.T. -0.01 min

Lab File: VL033742.D

Acq: 22 May 2019 12:49

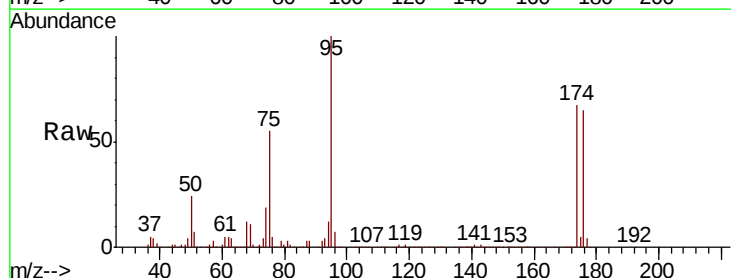
Tgt Ion: 95 Resp: 2089653

Ion Ratio Lower Upper

95 100

174 68.2 53.9 80.9

175 4.9 3.8 5.8



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

1200000

1000000

800000

600000

400000

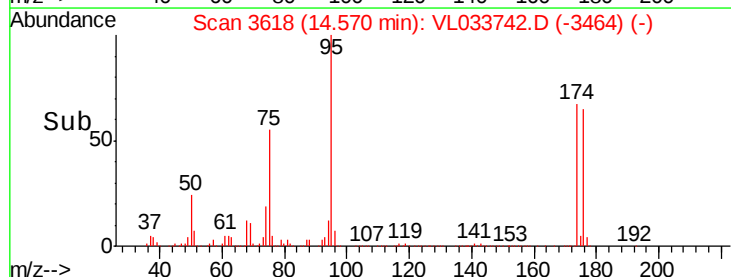
200000

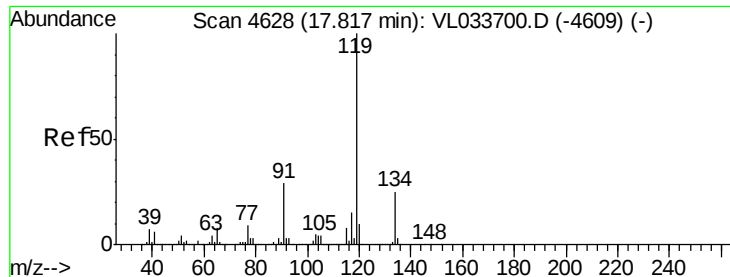
0

14.50

14.60

Time-->





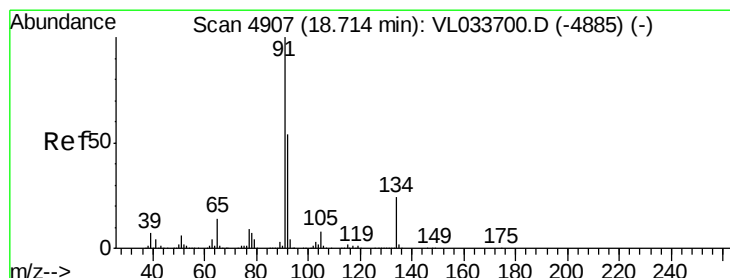
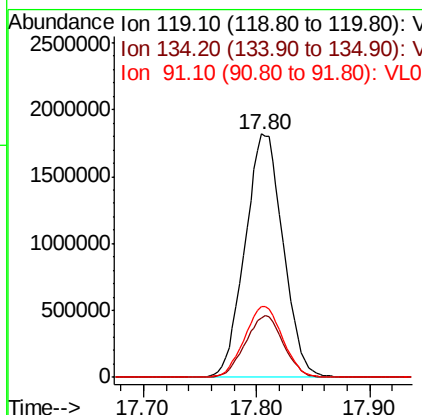
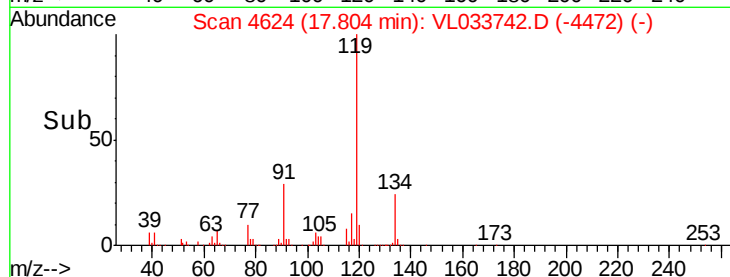
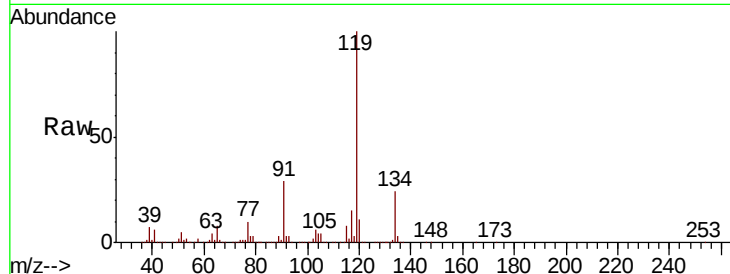
#69
 p-Isopropyltoluene
 Concen: 9.265 ppbv
 RT: 17.80 min Scan# 4624
 Delta R.T. -0.01 min
 Lab File: VL033742.D
 Acq: 22 May 2019 12:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0522ABS01DUP

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.3	20.3	30.5
91	29.4	23.1	34.7

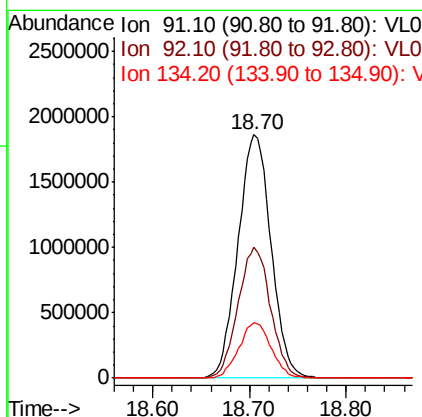
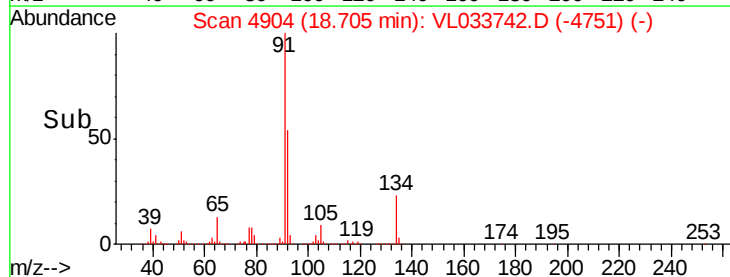
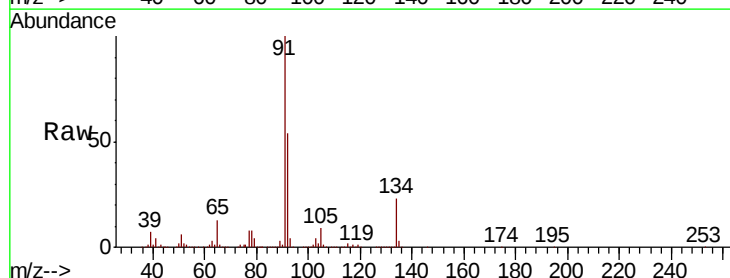
Manual Integrations
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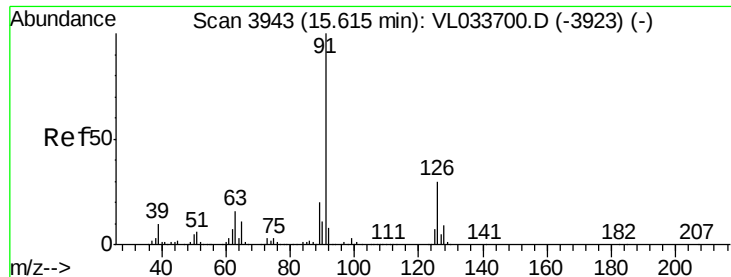
MMDadoda
 5/28/2019 2:50:42 AM



#70
 n-Butylbenzene
 Concen: 8.963 ppbv
 RT: 18.70 min Scan# 4904
 Delta R.T. -0.01 min
 Lab File: VL033742.D
 Acq: 22 May 2019 12:49

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.0	42.6	63.8
134	22.3	18.1	27.1





#71

2-Chlorotoluene

Concen: 9.497 ppbv

RT: 15.61 min Scan# 3941

Delta R.T. -0.01 min

Lab File: VL033742.D

Acq: 22 May 2019 12:49

Instrument :

MSVOA_L

ClientSampleId :

VL0522ABS01DUP

Tot Ion: 91 Resp: 3064943

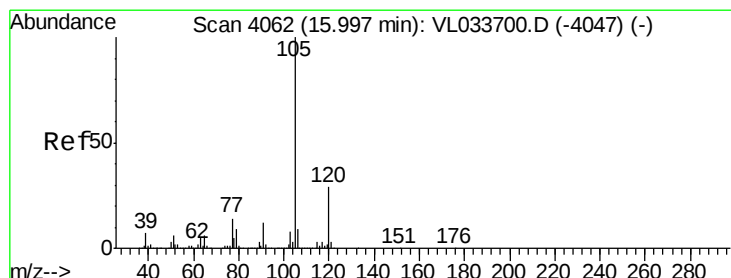
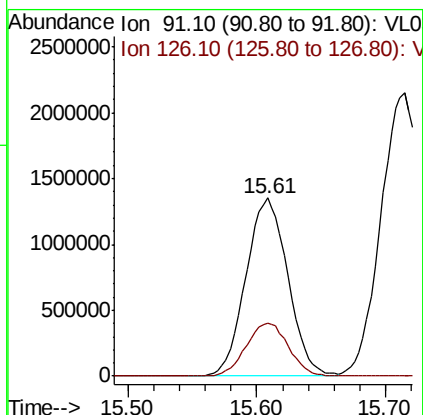
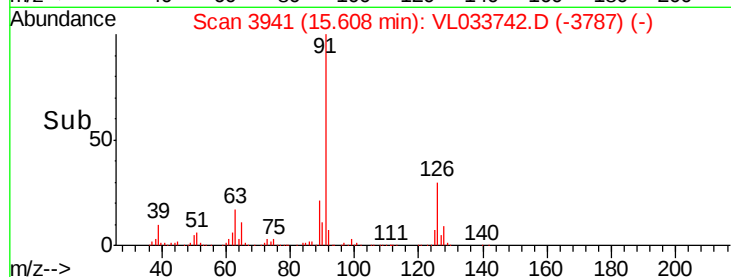
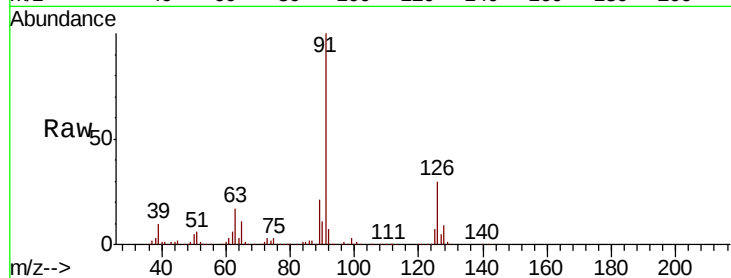
Ion Ratio Lower Upper

91 100

126 30.3 12.0 47.8

Manual Integrations
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MMDadoda
5/28/2019 2:50:42 AM



#72

4-Ethyltoluene

Concen: 9.757 ppbv

RT: 15.99 min Scan# 4061

Delta R.T. -0.00 min

Lab File: VL033742.D

Acq: 22 May 2019 12:49

Tgt Ion:105 Resp: 3603491

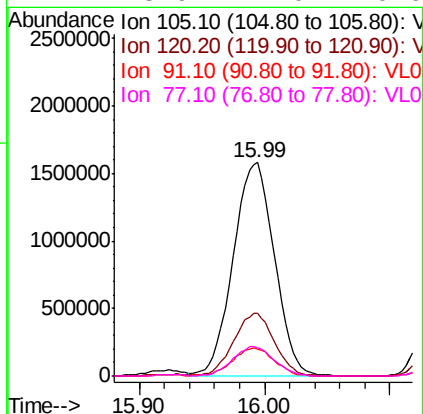
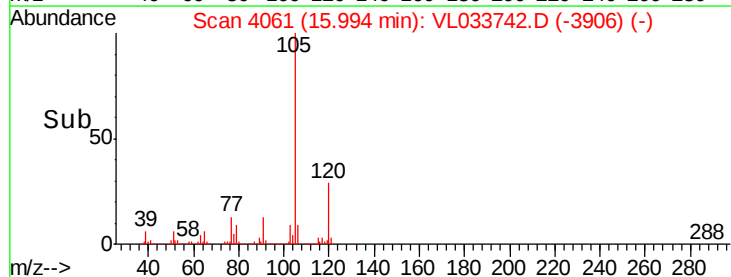
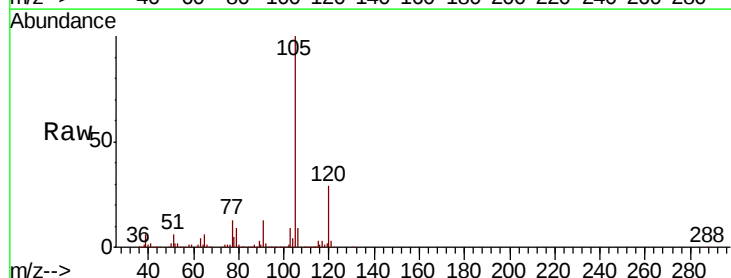
Ion Ratio Lower Upper

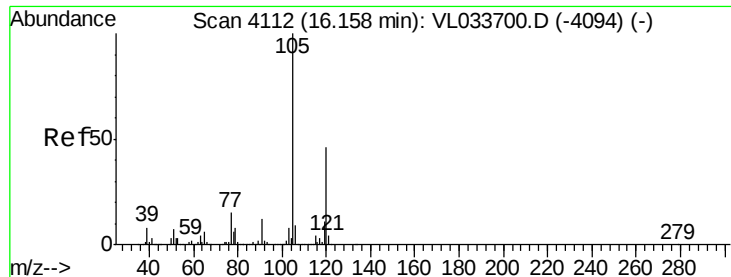
105 100

120 29.1 23.1 34.7

91 13.1 10.4 15.6

77 13.9 11.0 16.6





#73

1,3,5-Trimethylbenzene

Concen: 9.481 ppbv

RT: 16.15 min Scan# 4109

Delta R.T. -0.01 min

Lab File: VL033742.D

Acq: 22 May 2019 12:49

Instrument :

MSVOA_L

ClientSampleId :

VL0522ABS01DUP

Tot Ion:105 Resp: 3416471

Ion Ratio Lower Upper

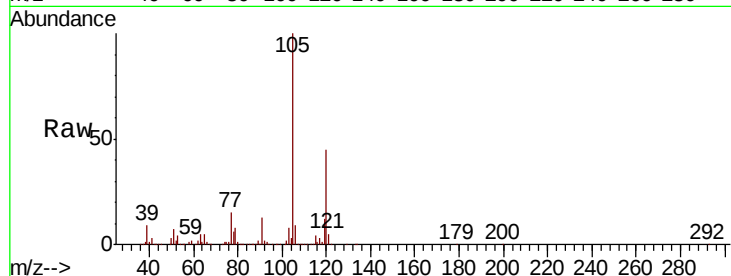
105 100

120 45.0 37.0 55.4

Manual Integrations
APPROVED

MMDadoda

5/28/2019 2:50:42 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.15

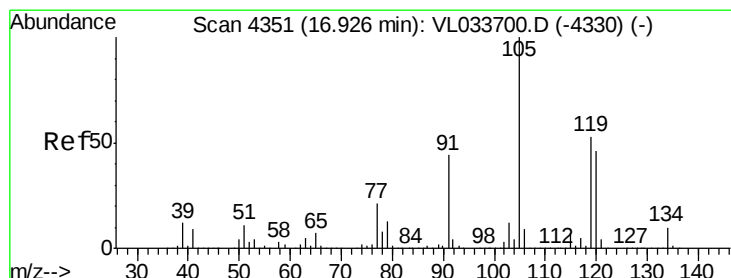
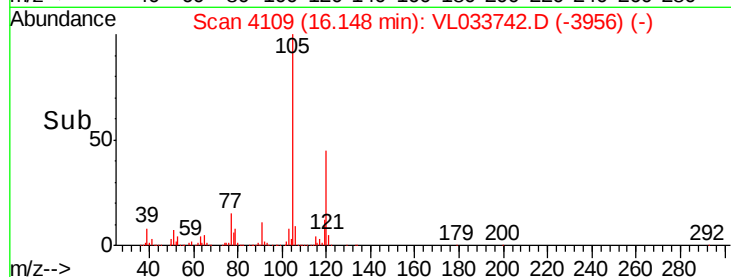
1500000

1000000

500000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 9.068 ppbv

RT: 16.92 min Scan# 4348

Delta R.T. -0.01 min

Lab File: VL033742.D

Acq: 22 May 2019 12:49

Tgt Ion:105 Resp: 3556018

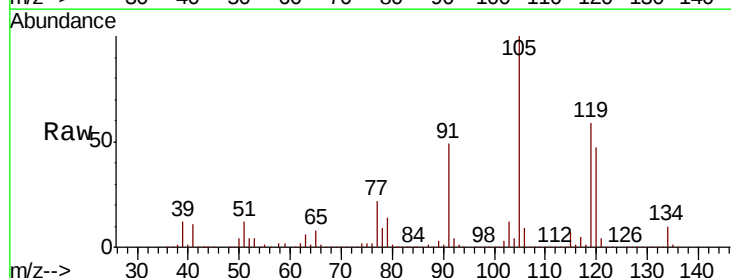
Ion Ratio Lower Upper

105 100

120 47.4 36.8 55.2

91 48.8 35.4 53.0

77 21.7 16.8 25.2



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): VLO

Ion 77.10 (76.80 to 77.80): VLO

2000000

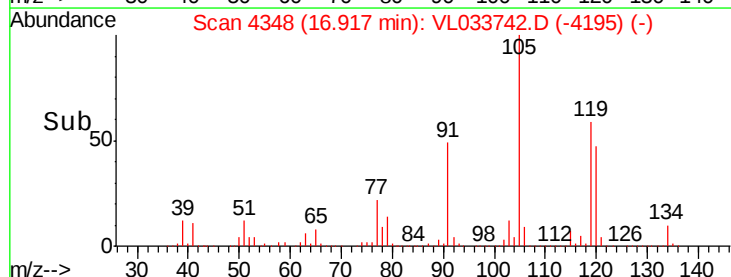
1500000

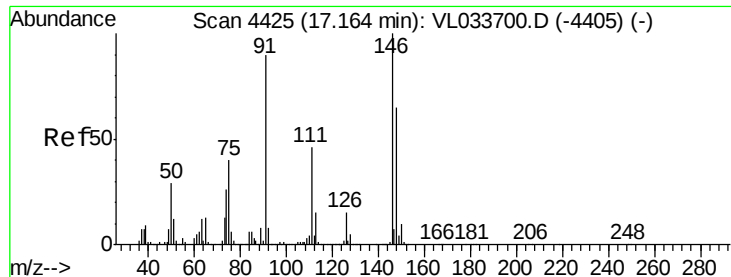
1000000

500000

0

Time-->





#75

1,3-Dichlorobenzene

Concen: 8.602 ppbv

RT: 17.16 min Scan# 4423

Delta R.T. -0.01 min

Lab File: VL033742.D

Acq: 22 May 2019 12:49

Instrument :

MSVOA_L

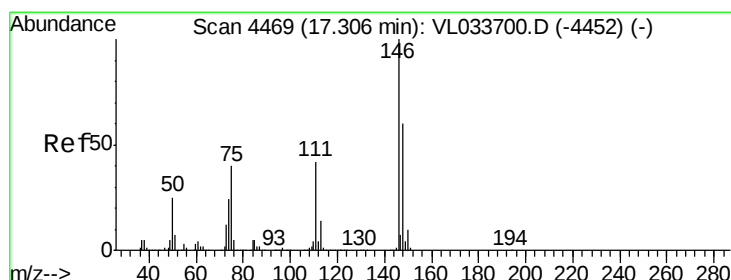
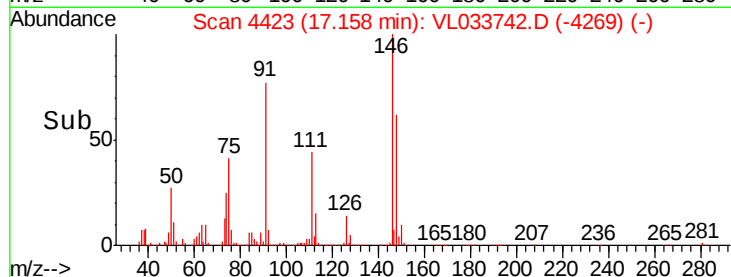
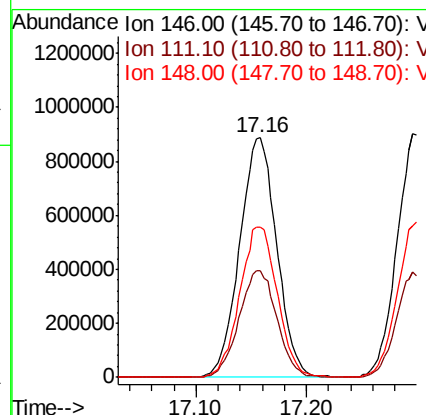
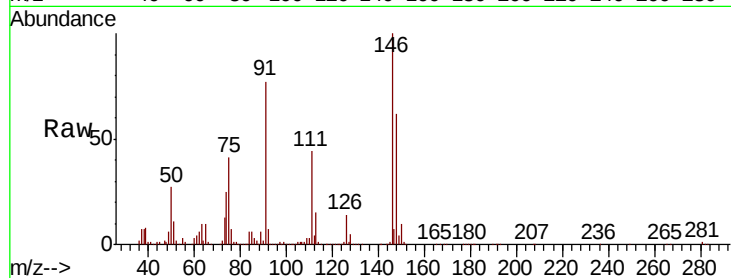
ClientSampleId :

VL0522ABS01DUP

Tot Ion:146	Resp: 2067134		
Ion Ratio	Lower	Upper	
146	100		
111	45.4	22.9	68.8
148	63.6	32.0	96.2

Manual Integrations
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#76

1,4-Dichlorobenzene

Concen: 8.858 ppbv

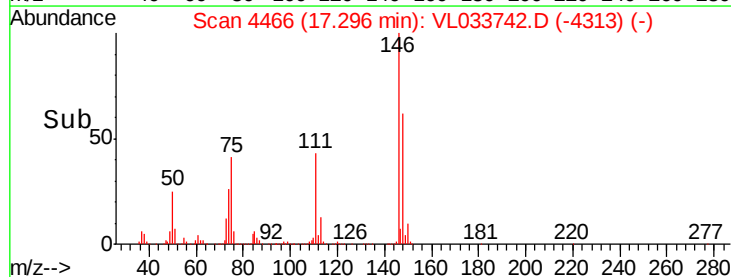
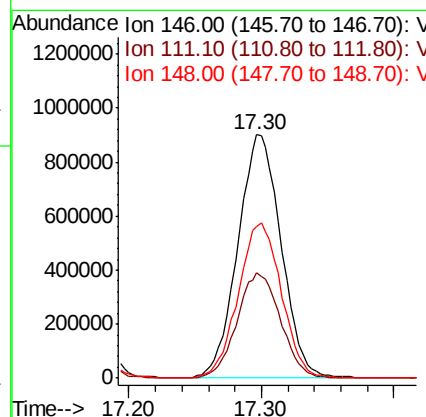
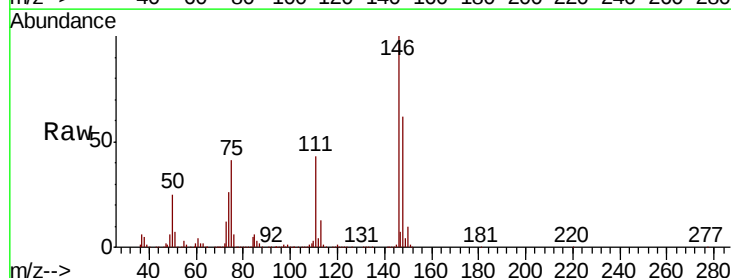
RT: 17.30 min Scan# 4466

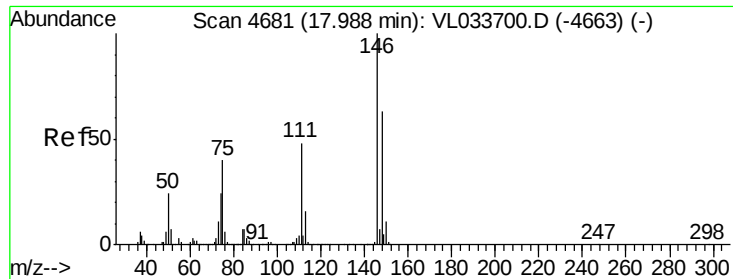
Delta R.T. -0.01 min

Lab File: VL033742.D

Acq: 22 May 2019 12:49

Tgt Ion	Ion:146	Resp: 2023146	
	Ratio	Lower	Upper
146	100		
111	44.0	21.9	65.8
148	64.7	32.1	96.3





#77

1,2-Dichlorobenzene

Concen: 8.772 ppbv

RT: 17.98 min Scan# 4679

Delta R.T. -0.01 min

Lab File: VL033742.D

Acq: 22 May 2019 12:49

Instrument :

MSVOA_L

ClientSampleId :

VL0522ABS01DUP

Tot Ion:146 Resp: 1980820

Ion Ratio Lower Upper

146 100

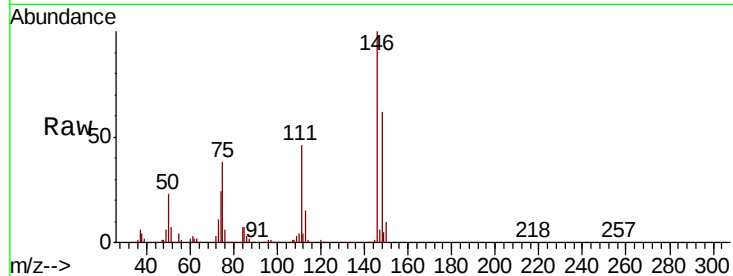
111 46.5 23.5 70.5

148 63.1 32.1 96.3

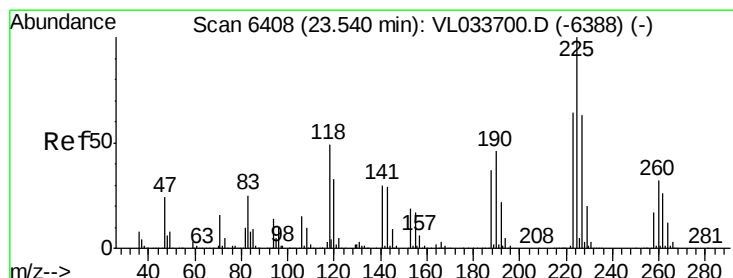
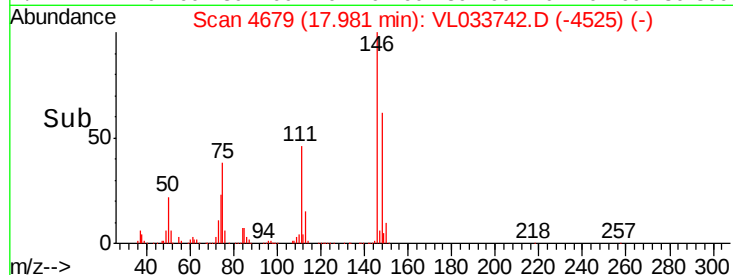
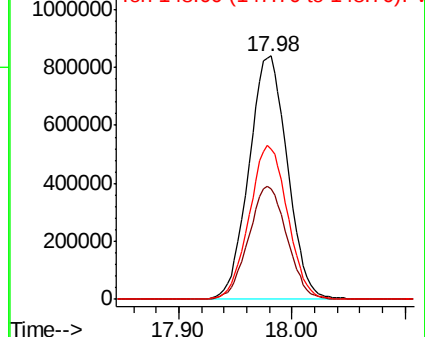
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 6.739 ppbv

RT: 23.53 min Scan# 6406

Delta R.T. -0.01 min

Lab File: VL033742.D

Acq: 22 May 2019 12:49

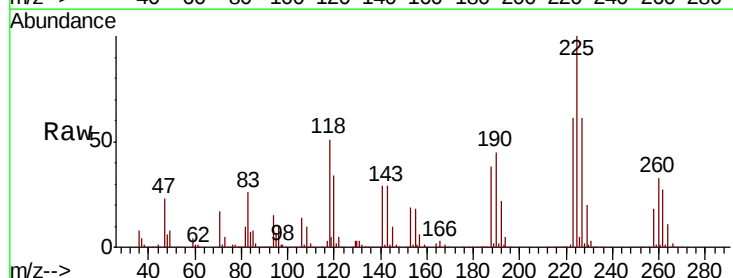
Tgt Ion:225 Resp: 1150477

Ion Ratio Lower Upper

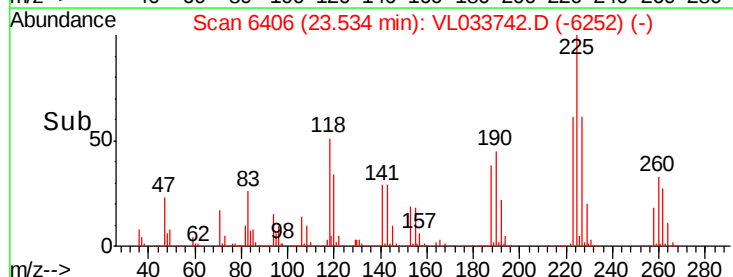
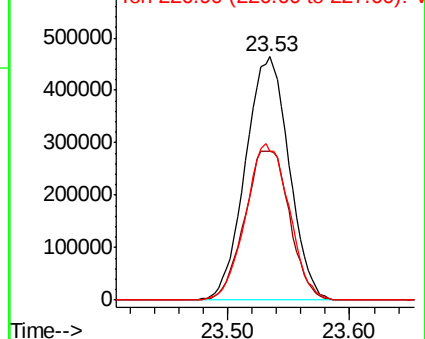
225 100

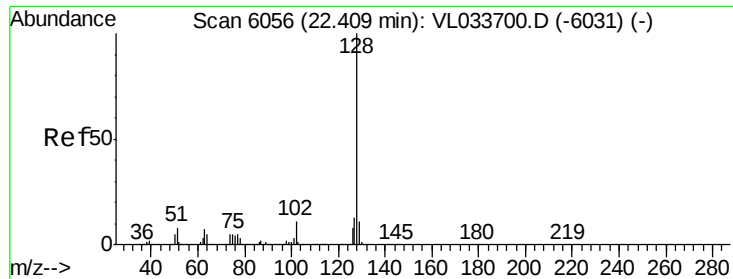
223 63.0 50.2 75.4

227 64.0 50.7 76.1



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: 7.886 ppbv

RT: 22.40 min Scan# 6053

Delta R.T. -0.01 min

Lab File: VL033742.D

Acq: 22 May 2019 12:49

Instrument :

MSVOA_L

ClientSampleId :

VL0522ABS01DUP

Tot Ion:128 Resp: 2872465

Ion Ratio Lower Upper

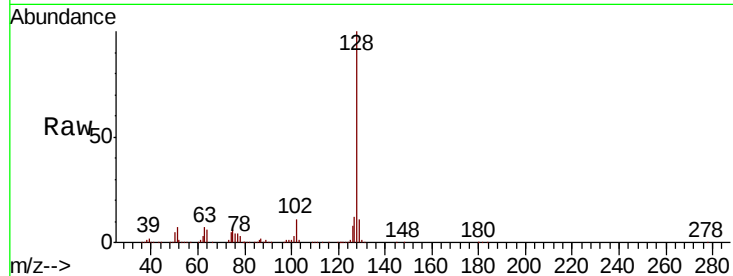
128 100

127 12.1 10.6 16.0

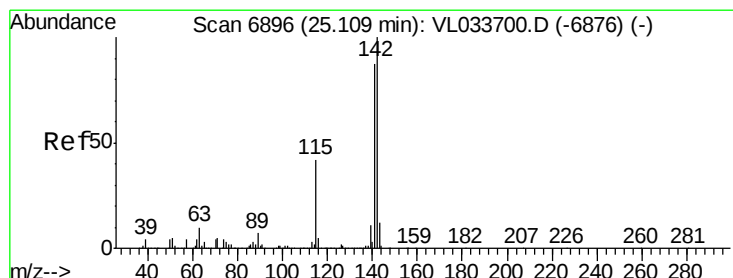
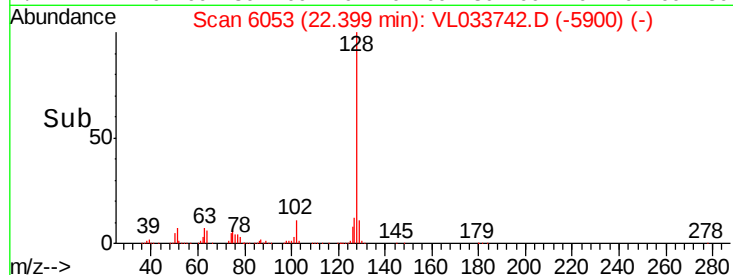
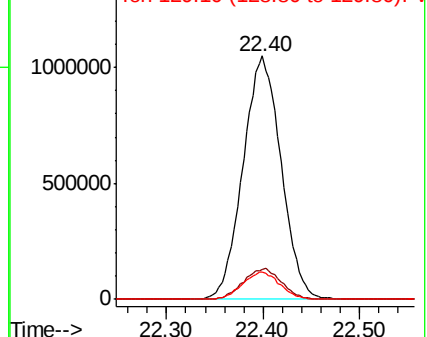
129 11.0 8.9 13.3

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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: 6.536 ppbv

RT: 25.11 min Scan# 6895

Delta R.T. -0.00 min

Lab File: VL033742.D

Acq: 22 May 2019 12:49

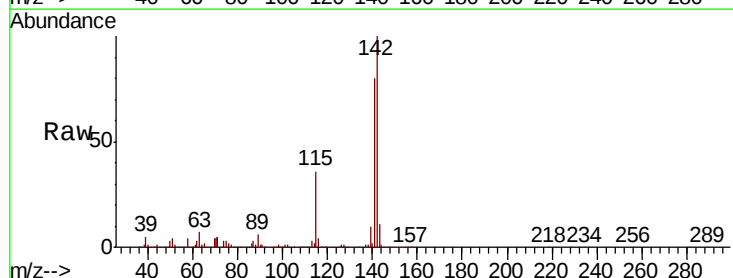
Tgt Ion:142 Resp: 904654

Ion Ratio Lower Upper

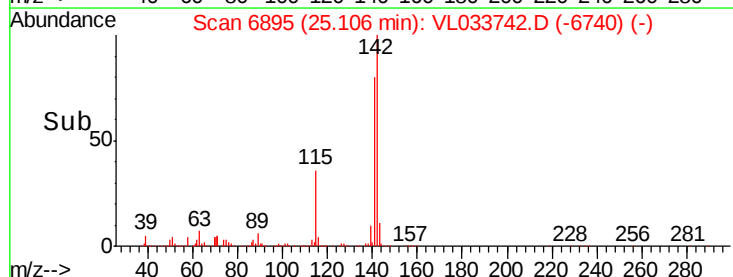
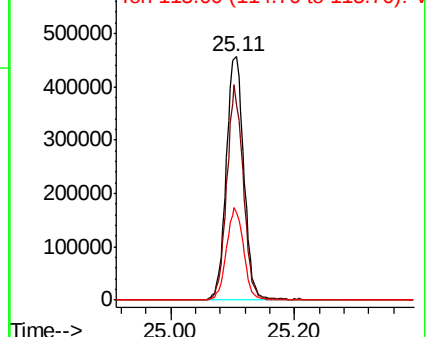
142 100

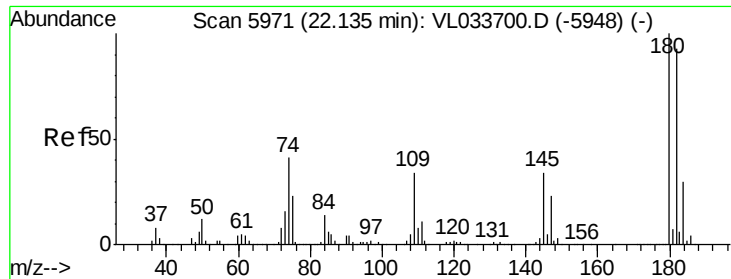
141 82.2 67.2 100.8

115 36.7 34.1 51.1



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: 7.595 ppbv
 RT: 22.12 min Scan# 5967
 Delta R.T. -0.01 min
 Lab File: VL033742.D
 Acq: 22 May 2019 12:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0522ABS01DUP

Tot Ion:	180	Resp:	1619896
Ion Ratio	Lower	Upper	
180	100		
182	96.0	76.1	114.1
184	30.9	24.6	37.0

Manual Integrations
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