

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070219\
 Data File : VL033998.D
 Acq On : 2 Jul 2019 23:57
 Operator : SY/AP
 Sample : VL0702ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0702ABS01

Manual Integrations
 APPROVED

MMDadoda
 7/3/2019 11:03:37 PM

Quant Time: Jul 03 04:47:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 03
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.74	49	1051642	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.27	114	2632921	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.21	117	2856401m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.55	95	2270345	9.32	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.20%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	1765438	8.135 ppbv	99
3) Chlorodifluoromethane	3.00	51	1120284	8.627 ppbv	100
4) Chloromethane	3.16	50	637833	8.542 ppbv	97
5) Vinyl Chloride	3.28	62	710583	8.463 ppbv	96
6) Bromomethane	3.50	94	463138	9.353 ppbv	96
7) Chloroethane	3.58	64	273466	9.113 ppbv	99
8) Dichlorotetrafluoroethane	3.20	85	1855190	8.768 ppbv	99
9) Propene	3.02	41	439136	9.192 ppbv	96
10) Heptane	8.22	43	1268462	10.604 ppbv	99
11) Trichlorofluoromethane	3.99	101	1999059	8.192 ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.53	101	1527503	8.843 ppbv	100
13) Ethanol	3.64	45	123725	8.337 ppbv	95
14) Bromoethene	3.77	108	613901	9.517 ppbv	99
15) Acetone	3.89	43	1337798	7.566 ppbv	100
16) 1,3-Butadiene	3.35	39	604574	9.683 ppbv	99
17) tert-Butyl alcohol	4.34	59	1326483	9.410 ppbv	99
18) 1,1-Dichloroethene	4.33	96	663904	8.630 ppbv	95
19) Isopropyl Alcohol	4.01	45	1004756	8.466 ppbv	99
20) Methylene Chloride	4.39	84	609481	7.904 ppbv	94
21) Allyl Chloride	4.46	41	1014646	9.203 ppbv	99
22) trans-1,2-Dichloroethene	4.94	96	688542	9.393 ppbv	96
23) Vinyl Acetate	5.13	43	1778860	10.080 ppbv	99
24) 1,1-Dichloroethane	5.07	63	1415738	9.052 ppbv	100
25) Ethyl Acetate	5.75	43	2478146	10.247 ppbv	100
26) Hexane	5.75	57	1142726	10.326 ppbv	99
27) Carbon Disulfide	4.60	76	1750110	9.302 ppbv	100
28) Methyl tert-Butyl Ether	5.09	73	1868564	9.970 ppbv	99
29) Chloroform	5.83	83	1962841	9.438 ppbv	97
30) Cyclohexane	7.22	84	920125	10.766 ppbv	96
31) cis-1,2-Dichloroethene	5.62	61	1174673	10.986 ppbv	98
32) 1,1,1-Trichloroethane	6.59	97	1893318	8.982 ppbv	99
34) 2-Butanone	5.31	43	1468555	10.539 ppbv	100
35) Carbon Tetrachloride	7.11	117	2046201	9.817 ppbv	99
36) Benzene	6.98	78	2215202	10.752 ppbv	98
37) 1,2-Dichloroethane	6.39	62	1488512	9.807 ppbv	100
38) Trichloroethene	7.93	130	984816	10.743 ppbv	96
39) 1,2-Dichloropropane	7.71	63	793372	10.356 ppbv	97
40) 1,4-Dioxane	7.93	88	366185	10.353 ppbv	# 97
41) Tetrahydrofuran	6.12	42	783983	11.472 ppbv	99
42) Bromodichloromethane	7.89	83	2071945	10.174 ppbv	99
43) Methyl Methacrylate	8.11	69	908145	11.618 ppbv	99

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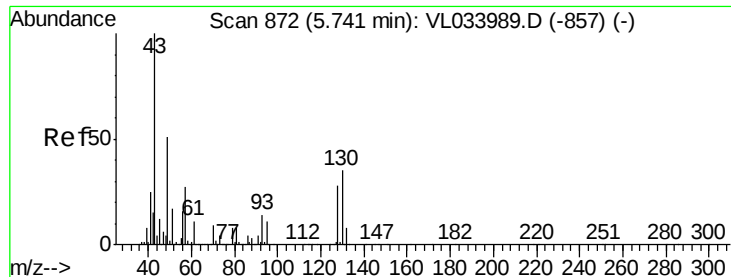
Manual Integrations
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 7/3/2019 11:03:37 PM

Quant Time: Jul 03 04:47:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 03 04:47:21 2019
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.97	57	3774042	10.613	ppbv	99
45) t-1,3-Dichloropropene	9.39	75	1317728	12.892	ppbv	99
46) cis-1,3-Dichloropropene	8.81	75	1403058	11.852	ppbv	95
47) 1,1,2-Trichloroethane	9.59	97	1001503	10.398	ppbv	97
48) Dibromochloromethane	10.43	129	1866950	10.158	ppbv	99
49) Bromoform	13.17	173	1795879	11.438	ppbv	100
50) 4-Methyl-2-Pentanone	8.84	43	2208749	10.682	ppbv	100
51) 2-Hexanone	10.24	43	1855255	11.125	ppbv #	100
52) Tetrachloroethene	11.34	164	959423	10.820	ppbv	97
53) Toluene	9.92	91	2790563	11.833	ppbv	100
54) 1,2-Dibromoethane	10.73	107	1624469	11.428	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.25	131	1248383	9.779	ppbv	96
57) Chlorobenzene	12.27	112	2189094	9.626	ppbv	95
58) Ethyl Benzene	12.83	91	3949534	11.498	ppbv	99
59) m/p-Xylene	13.12	91	6675268m	21.462	ppbv	
60) o-Xylene	13.82	91	3333059m	10.712	ppbv	
61) Styrene	13.65	104	2479958	12.044	ppbv	99
62) Isopropylbenzene	14.79	105	4451876	9.308	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.80	83	2299211	9.547	ppbv	99
64) n-propylbenzene	15.69	120	1161903	9.368	ppbv	94
65) tert-Butylbenzene	16.88	119	3986985	9.802	ppbv	99
66) Benzyl Chloride	17.12	91	2235088	10.740	ppbv	100
67) sec-Butylbenzene	17.43	105	5548938	9.719	ppbv	100
69) p-Isopropyltoluene	17.78	119	4608372	9.790	ppbv	100
70) n-Butylbenzene	18.68	91	4760981	9.628	ppbv	99
71) 2-Chlorotoluene	15.59	91	3330658	9.515	ppbv	99
72) 4-Ethyltoluene	15.97	105	3901297	9.764	ppbv	99
73) 1,3,5-Trimethylbenzene	16.13	105	3734875	10.046	ppbv	98
74) 1,2,4-Trimethylbenzene	16.89	105	3874943	9.410	ppbv	96
75) 1,3-Dichlorobenzene	17.13	146	2313932	8.846	ppbv	100
76) 1,4-Dichlorobenzene	17.28	146	2297301	9.325	ppbv	99
77) 1,2-Dichlorobenzene	17.95	146	2190656	9.044	ppbv	99
78) Hexachloro-1,3-Butadiene	23.51	225	1687394	8.187	ppbv	98
79) Naphthalene	22.37	128	3655156	10.558	ppbv	97
80) Naphthalene, 2-methyl-	25.09	142	1188057	9.431	ppbv	99
81) 1,2,4-Trichlorobenzene	22.10	180	2186086	9.832	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.74 min Scan# 872

Delta R.T. -0.00 min

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VL0702ABS01

Tot Ion: 49 Resp: 1051642

Ion Ratio Lower Upper

49 100

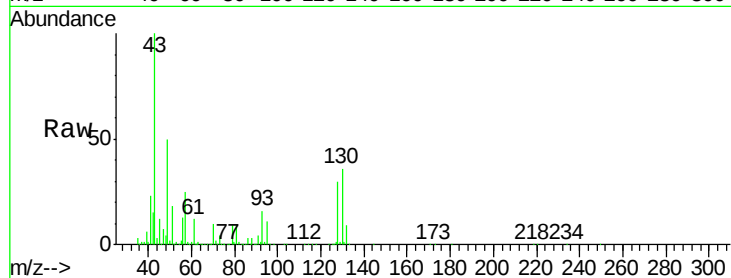
128 56.8 27.9 83.6

130 72.7 35.8 107.4

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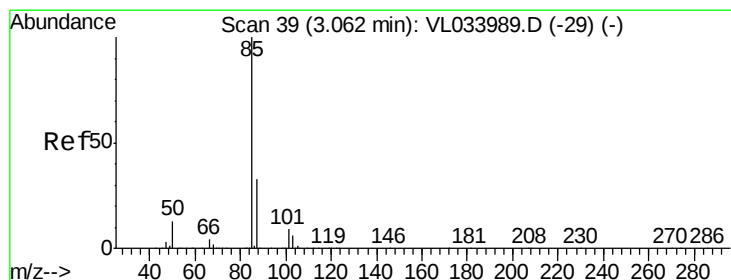
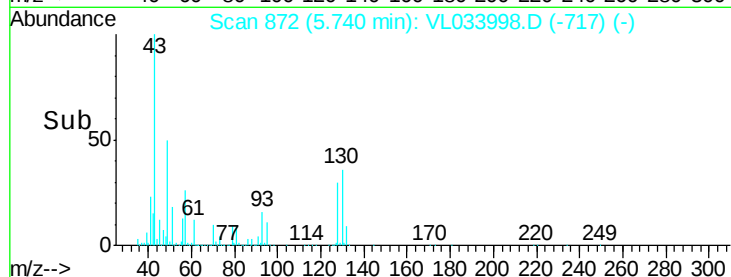
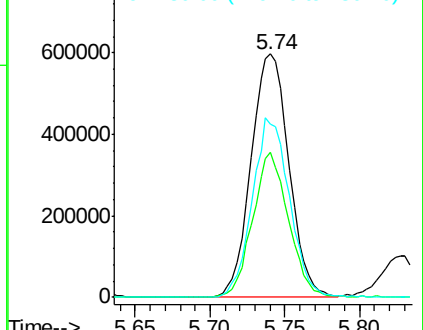
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 8.135 ppbv

RT: 3.06 min Scan# 39

Delta R.T. -0.00 min

Lab File: VL033998.D

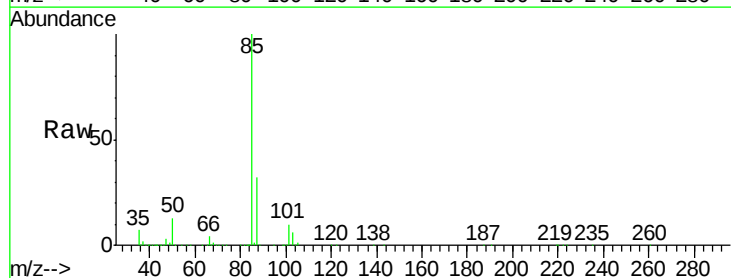
Acq: 2 Jul 2019 23:57

Tgt Ion: 85 Resp: 1765438

Ion Ratio Lower Upper

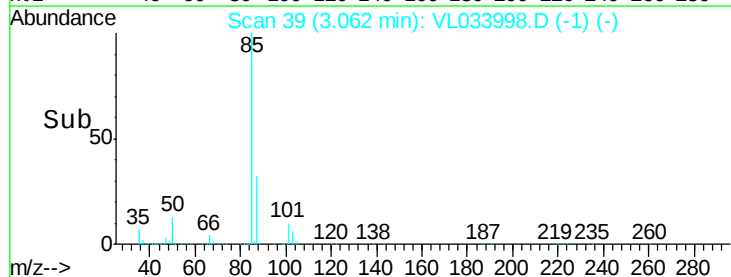
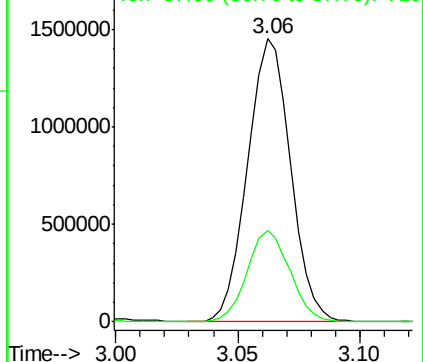
85 100

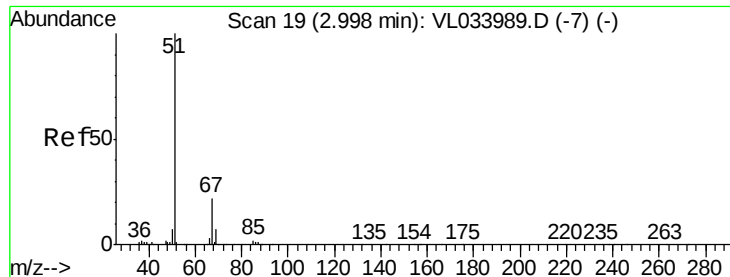
87 32.0 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





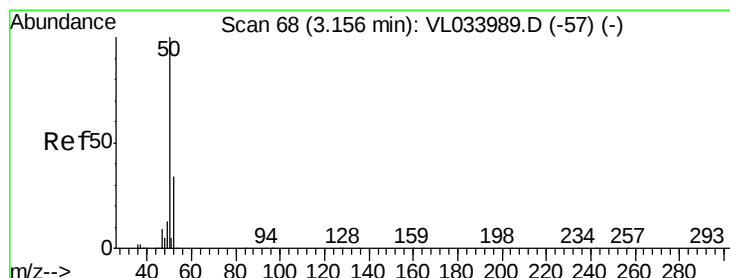
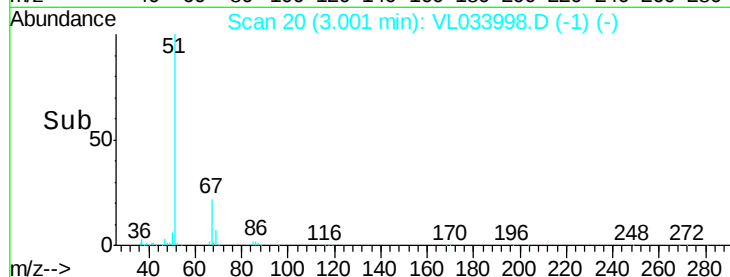
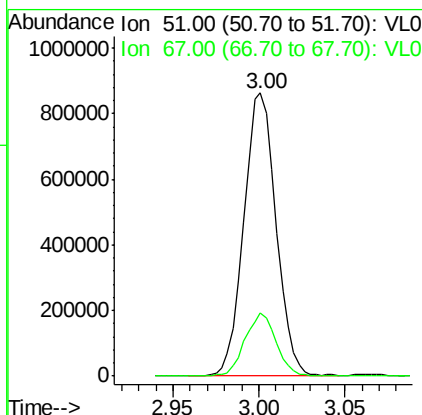
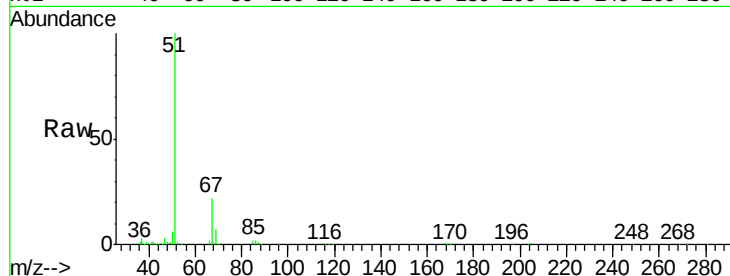
#3
Chlorodifluoromethane
Concen: 8.627 ppbv
RT: 3.00 min Scan# 20
Delta R.T. 0.00 min
Lab File: VL033998.D
Acq: 2 Jul 2019 23:57

Instrument :
MSVOA_L
ClientSampleId :
VL0702ABS01

Tot Ion: 51 Resp: 1120284
Ion Ratio Lower Upper
51 100
67 21.6 17.3 25.9

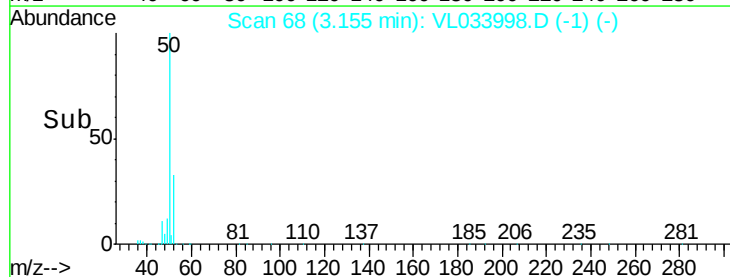
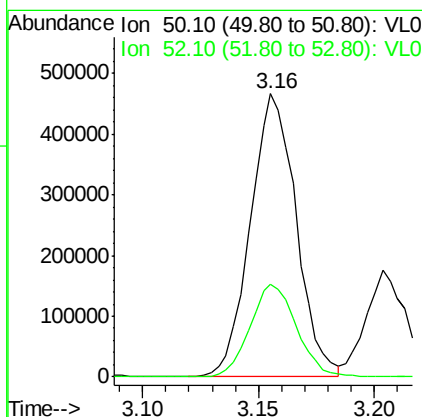
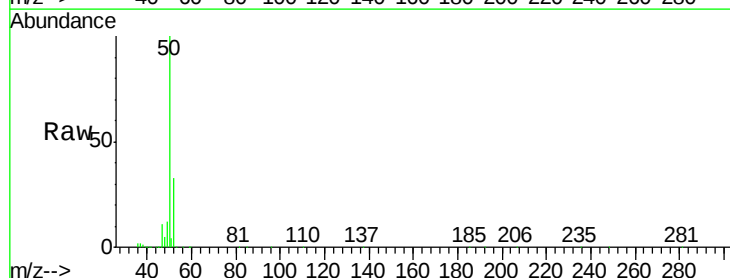
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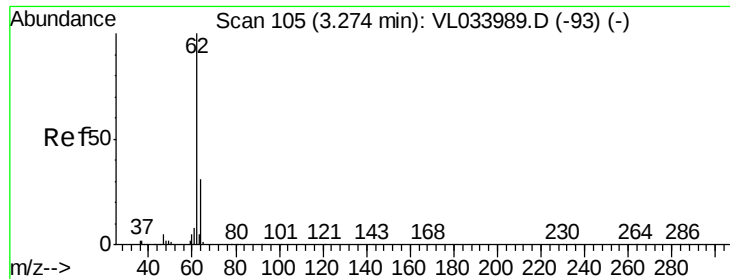
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#4
Chloromethane
Concen: 8.542 ppbv
RT: 3.16 min Scan# 68
Delta R.T. -0.00 min
Lab File: VL033998.D
Acq: 2 Jul 2019 23:57

Tgt Ion: 50 Resp: 637833
Ion Ratio Lower Upper
50 100
52 32.7 27.4 41.0





#5

Vinyl Chloride

Concen: 8.463 ppbv

RT: 3.28 min Scan# 106

Delta R.T. 0.00 min

Lab File: VL033998.D

Acq: 2 Jul 2019 23:57

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion: 62 Resp: 710583

Ion Ratio Lower Upper

62 100

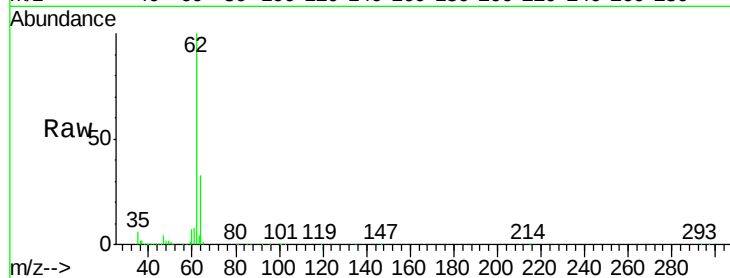
64 32.8 24.4 36.6

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

3.28

600000

500000

400000

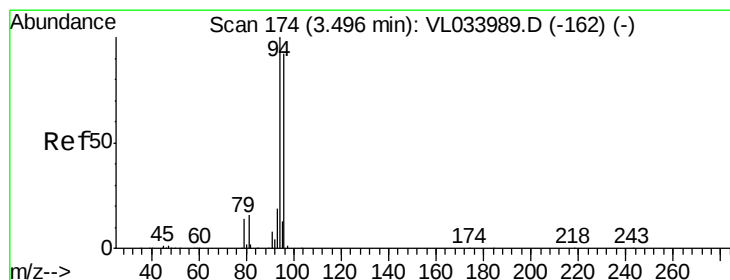
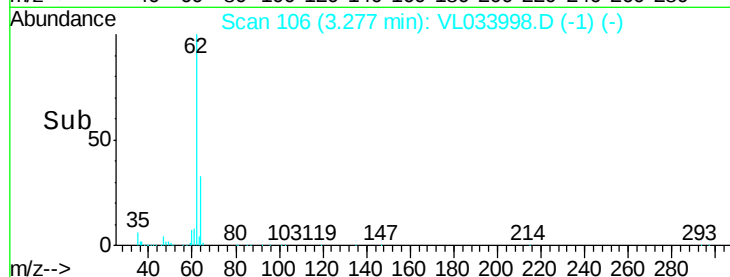
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 9.353 ppbv

RT: 3.50 min Scan# 174

Delta R.T. -0.00 min

Lab File: VL033998.D

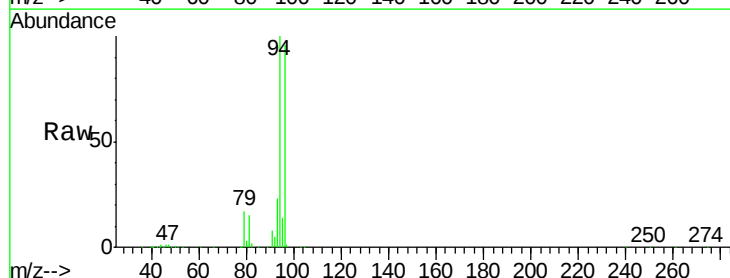
Acq: 2 Jul 2019 23:57

Tgt Ion: 94 Resp: 463138

Ion Ratio Lower Upper

94 100

96 95.7 73.8 110.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.50

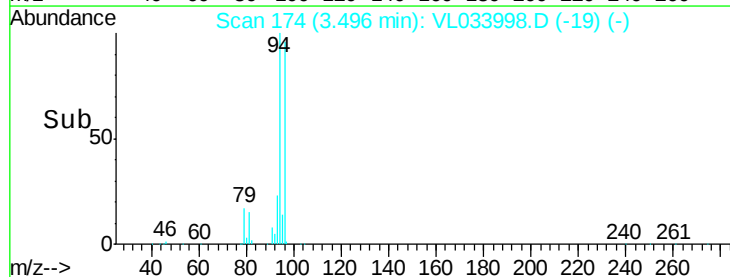
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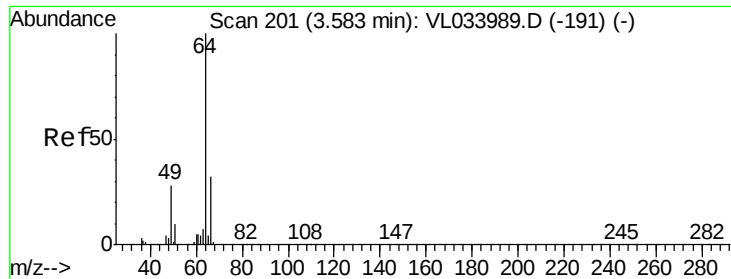
200000

100000

0

Time-->





#7

Chloroethane

Concen: 9.113 ppbv

RT: 3.58 min Scan# 201

Delta R.T. -0.00 min

Lab File: VL033998.D

Acq: 2 Jul 2019 23:57

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion: 64 Resp: 273466

Ion Ratio Lower Upper

64 100

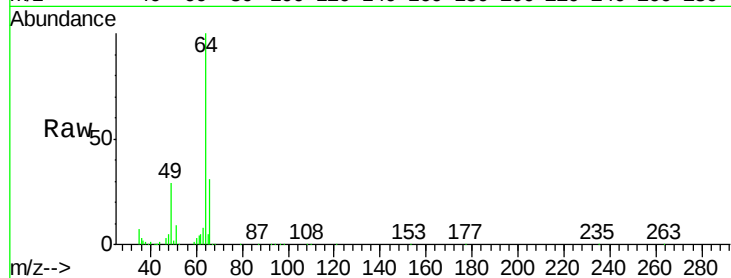
66 30.8 25.3 37.9

Manual Integrations

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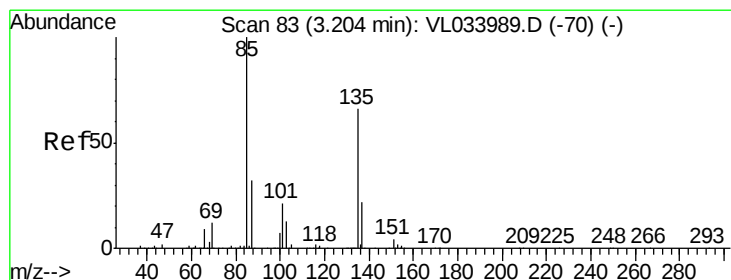
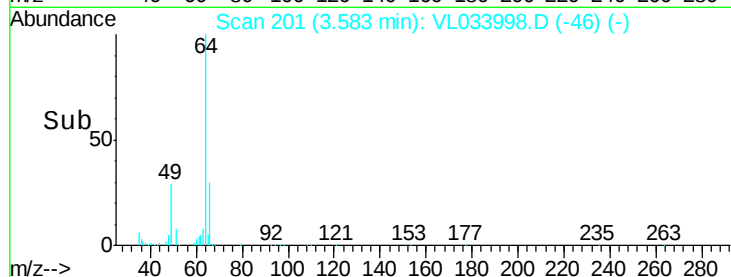
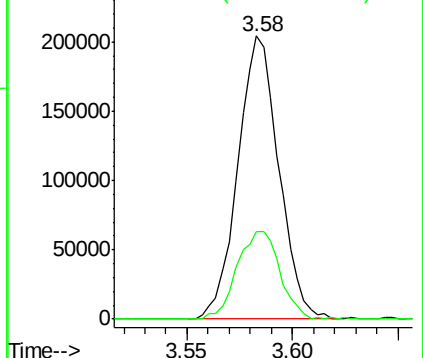
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 8.768 ppbv

RT: 3.20 min Scan# 83

Delta R.T. -0.00 min

Lab File: VL033998.D

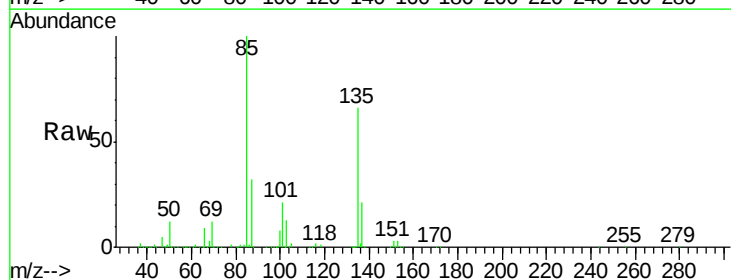
Acq: 2 Jul 2019 23:57

Tgt Ion: 85 Resp: 1855190

Ion Ratio Lower Upper

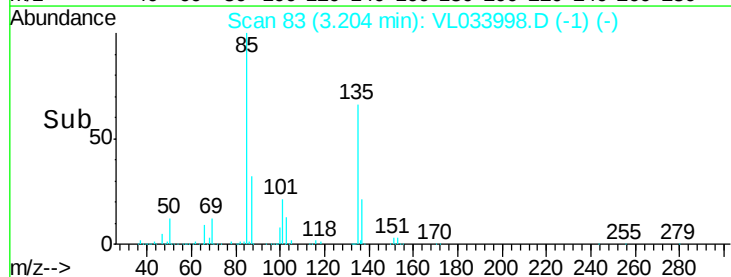
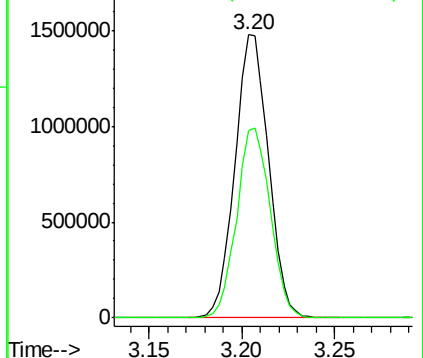
85 100

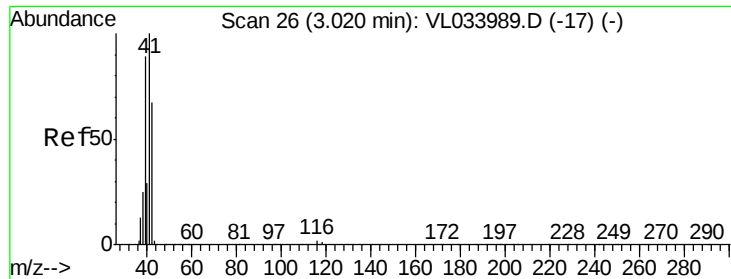
135 67.8 55.0 82.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 9.192 ppbv

RT: 3.02 min Scan# 27

Delta R.T. 0.00 min

Lab File: VL033998.D

Acq: 2 Jul 2019 23:57

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion: 41 Resp: 439136

Ion Ratio Lower Upper

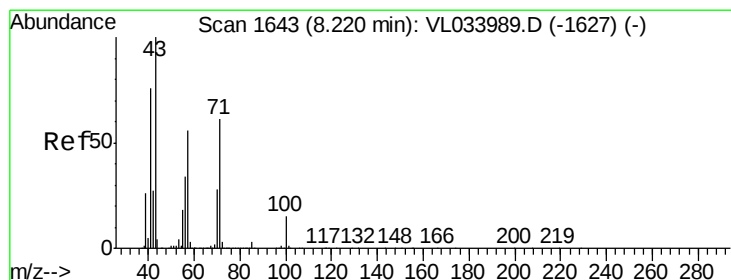
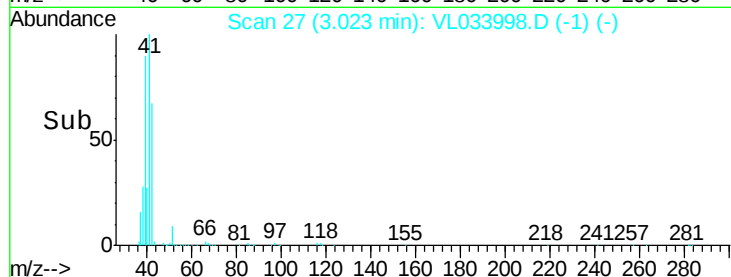
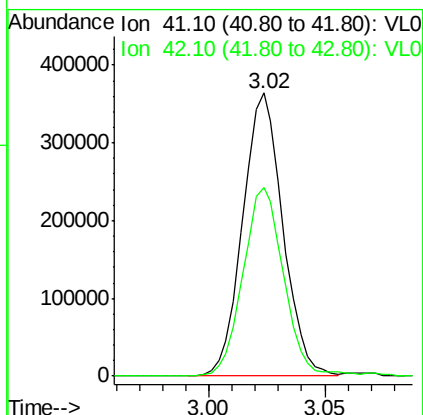
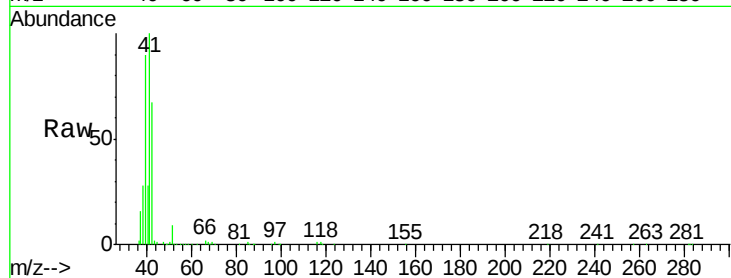
41 100

42 68.2 57.1 85.7

Manual Integrations
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#10

Heptane

Concen: 10.604 ppbv

RT: 8.22 min Scan# 1642

Delta R.T. -0.00 min

Lab File: VL033998.D

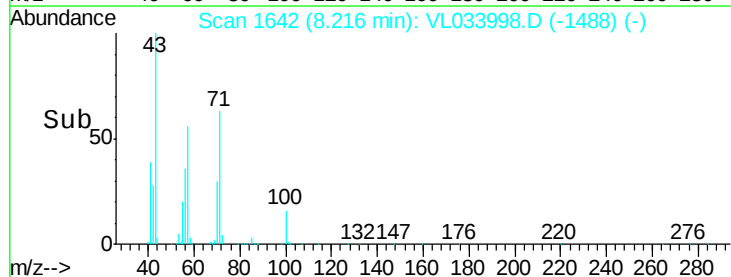
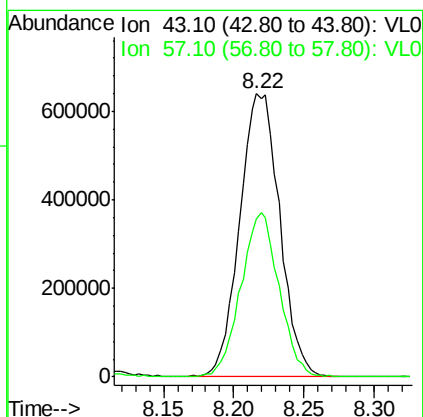
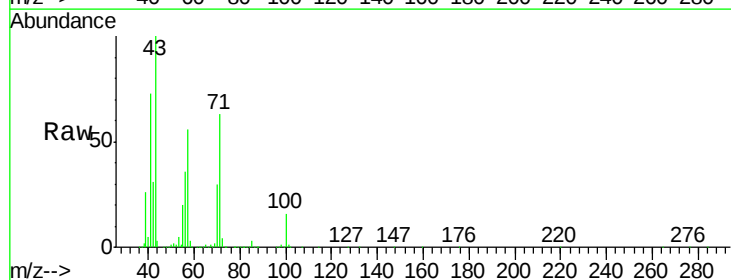
Acq: 2 Jul 2019 23:57

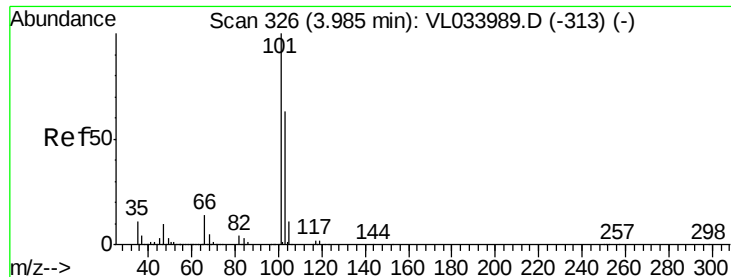
Tgt Ion: 43 Resp: 1268462

Ion Ratio Lower Upper

43 100

57 55.3 44.6 66.8





#11

Trichlorofluoromethane

Concen: 8.192 ppbv

RT: 3.99 min Scan# 327

Delta R.T. 0.00 min

Lab File: VL033998.D

Acq: 2 Jul 2019 23:57

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion:101 Resp: 1999059

Ion Ratio Lower Upper

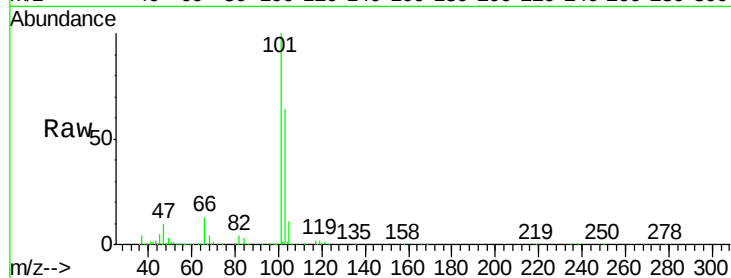
101 100

103 64.1 50.8 76.2

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

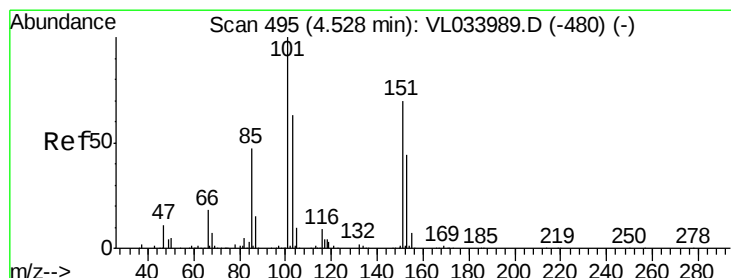
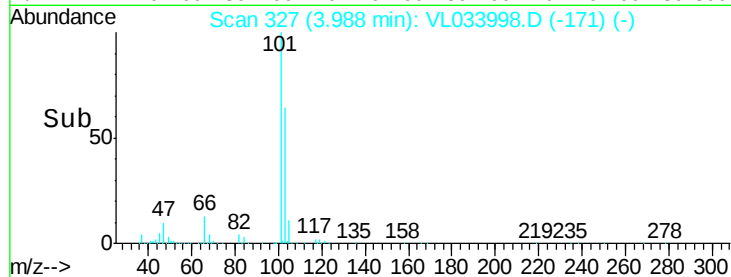
1500000

1000000

500000

0

Time--> 3.90 3.95 4.00 4.05



#12

1,1,2-Trichlorotrifluoroethane

Concen: 8.843 ppbv

RT: 4.53 min Scan# 496

Delta R.T. 0.00 min

Lab File: VL033998.D

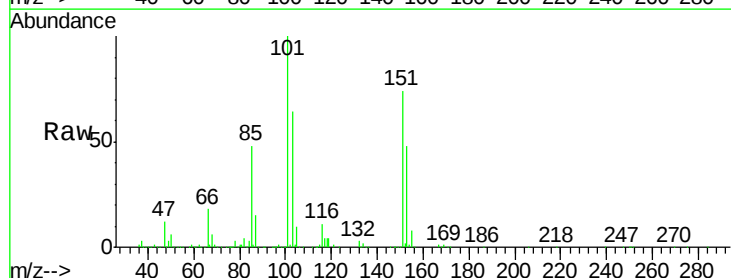
Acq: 2 Jul 2019 23:57

Tgt Ion:101 Resp: 1527503

Ion Ratio Lower Upper

101 100

151 73.5 59.0 88.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

1000000

800000

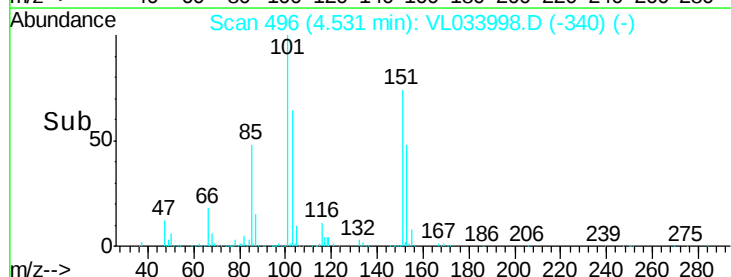
600000

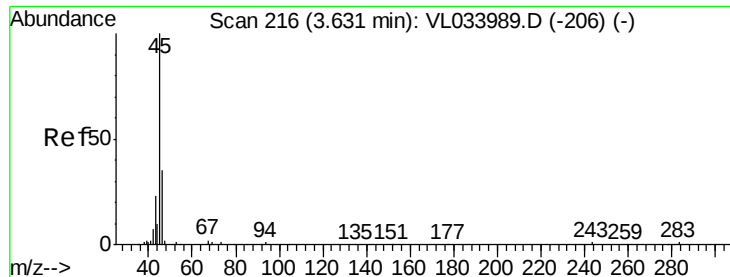
400000

200000

0

Time--> 4.45 4.50 4.55 4.60





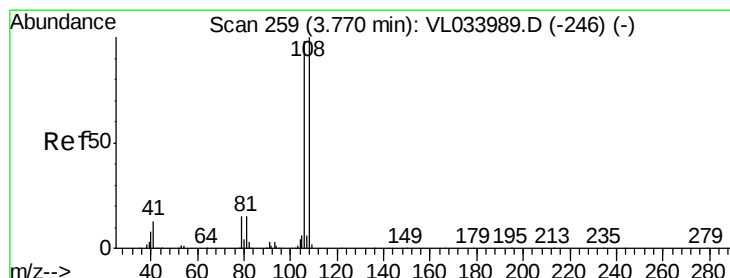
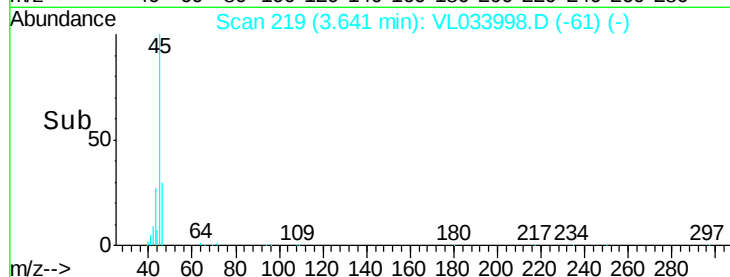
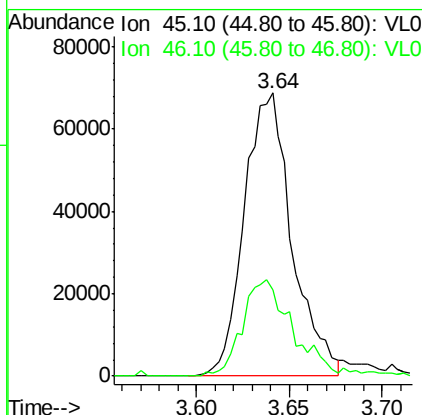
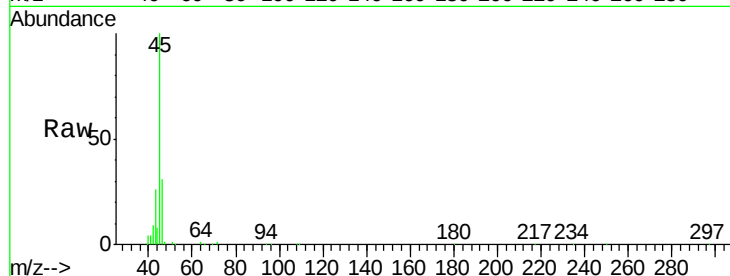
#13
Ethanol
Concen: 8.337 ppbv
RT: 3.64 min Scan# 219
Delta R.T. 0.01 min
Lab File: VL033998.D
Acq: 2 Jul 2019 23:57

Instrument :
MSVOA_L
ClientSampleId :
VL0702ABS01

Tot Ion	Ratio	Lower	Upper
45	100		
46	37.4	16.2	64.6

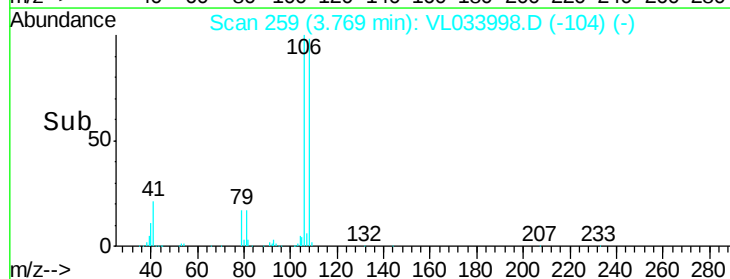
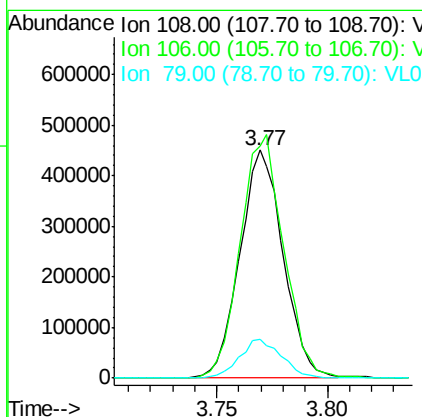
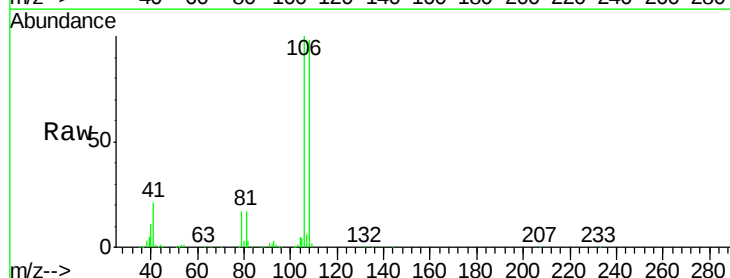
Manual Integrations
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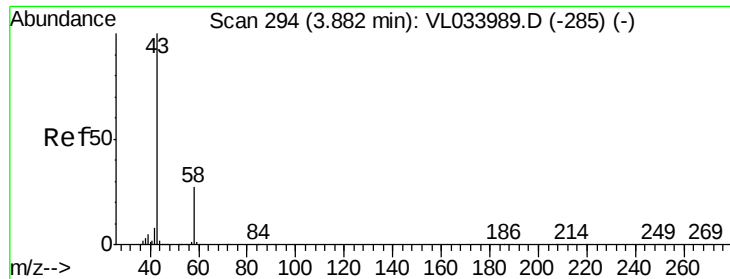
MMDadoda
7/3/2019 11:03:37 PM



#14
Bromoethene
Concen: 9.517 ppbv
RT: 3.77 min Scan# 259
Delta R.T. -0.00 min
Lab File: VL033998.D
Acq: 2 Jul 2019 23:57

Tgt Ion	Ratio	Lower	Upper
108	100		
106	107.8	85.6	128.4
79	16.9	14.0	21.0





#15

Acetone

Concen: 7.566 ppbv

RT: 3.89 min Scan# 295

Delta R.T. 0.00 min

Lab File: VL033998.D

Acq: 2 Jul 2019 23:57

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion: 43 Resp: 1337798

Ion Ratio Lower Upper

43 100

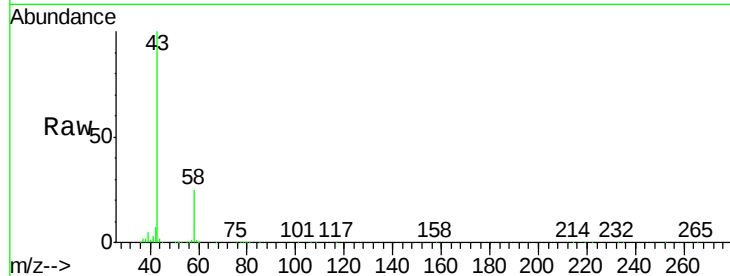
58 26.9 21.4 32.0

Manual Integrations

APPROVED

MMDadoda

7/3/2019 11:03:37 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.89

1000000

800000

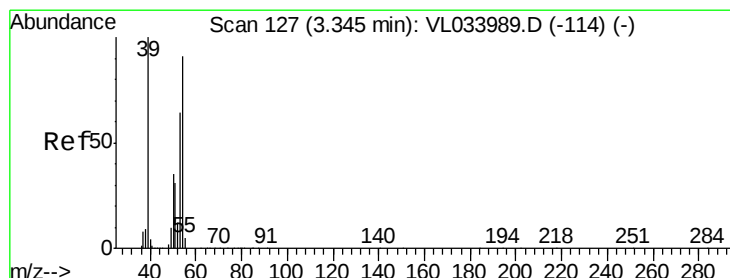
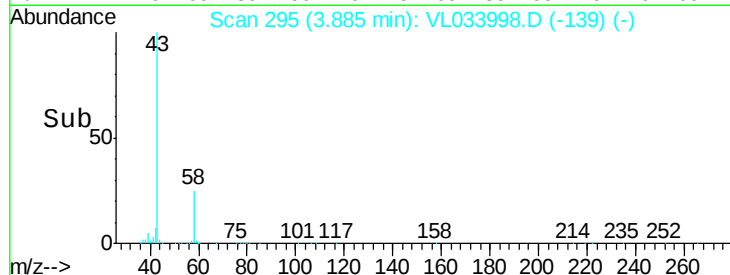
600000

400000

200000

0

Time-->



#16

1,3-Butadiene

Concen: 9.683 ppbv

RT: 3.35 min Scan# 128

Delta R.T. 0.00 min

Lab File: VL033998.D

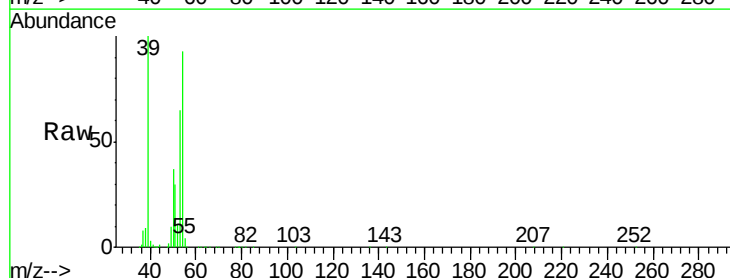
Acq: 2 Jul 2019 23:57

Tgt Ion: 39 Resp: 604574

Ion Ratio Lower Upper

39 100

54 88.6 71.4 107.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.35

500000

400000

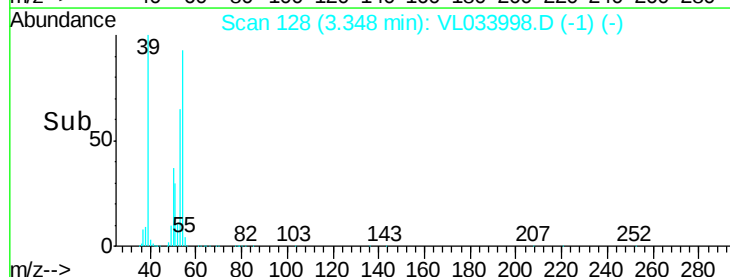
300000

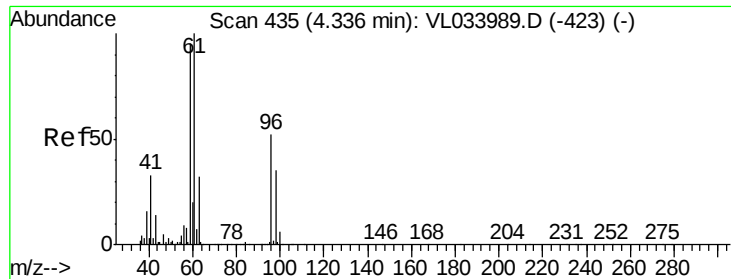
200000

100000

0

Time-->





#17

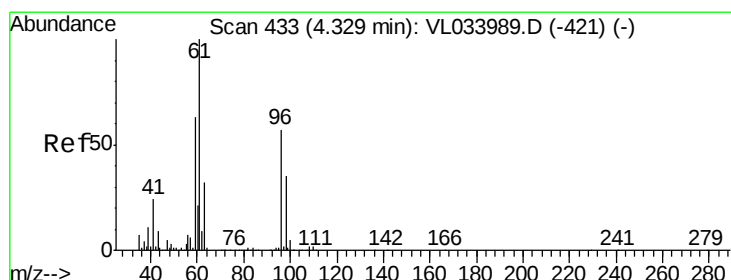
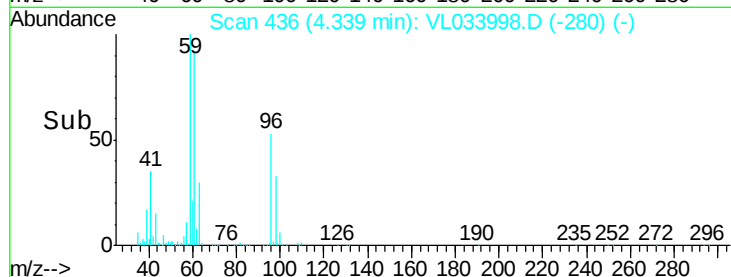
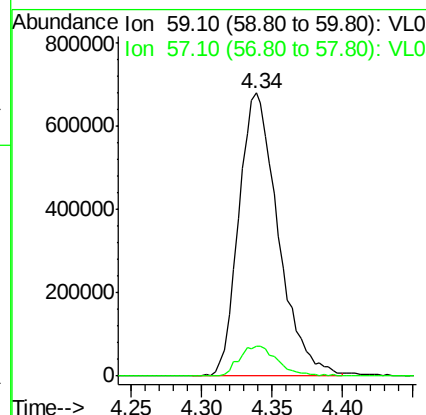
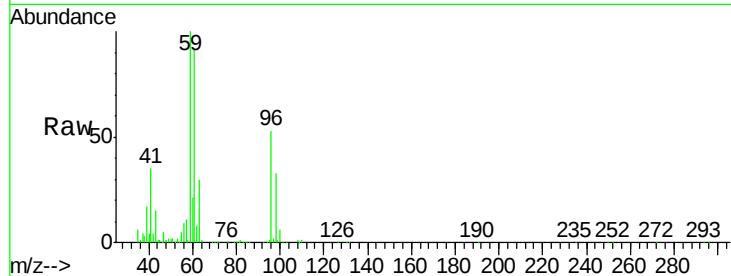
tert-Butyl alcohol
Concen: 9.410 ppbv
RT: 4.34 min Scan# 436
Delta R.T. 0.00 min
Lab File: VL033998.D
Acq: 2 Jul 2019 23:57

Instrument :
MSVOA_L
ClientSampleId :
VL0702ABS01

Tot Ion: 59 Resp: 1326483
Ion Ratio Lower Upper
59 100
57 10.7 8.2 12.2

Manual Integrations
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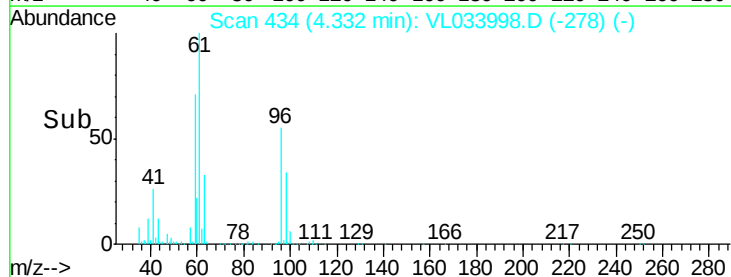
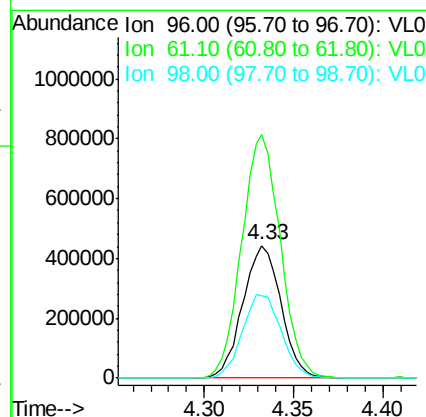
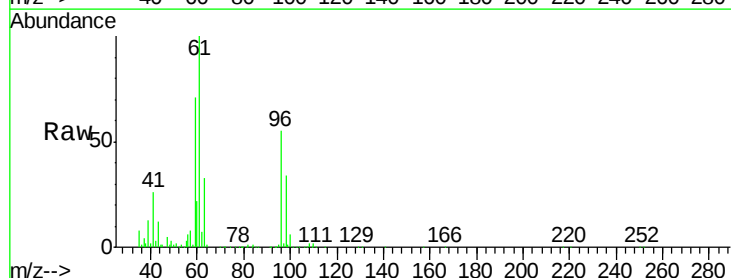
MMDadoda
7/3/2019 11:03:37 PM

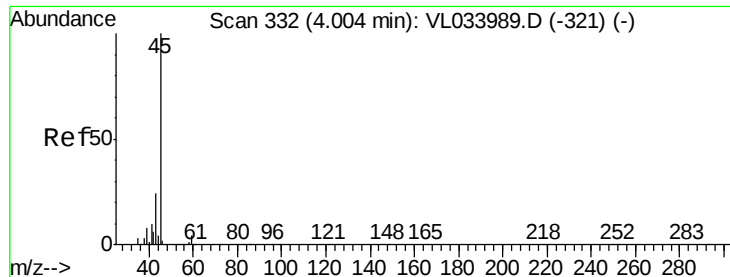


#18

1,1-Dichloroethene
Concen: 8.630 ppbv
RT: 4.33 min Scan# 434
Delta R.T. 0.00 min
Lab File: VL033998.D
Acq: 2 Jul 2019 23:57

Tgt Ion: 96 Resp: 663904
Ion Ratio Lower Upper
96 100
61 183.2 139.4 209.0
98 61.9 49.4 74.0





#19

Isopropyl Alcohol

Concen: 8.466 ppbv

RT: 4.01 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL033998.D

Acq: 2 Jul 2019 23:57

Tot Ion: 45 Resp: 1004756

Ion Ratio Lower Upper

45 100

58 2.3 1.7 2.5

Instrument :

MSVOA_L

ClientSampleId :

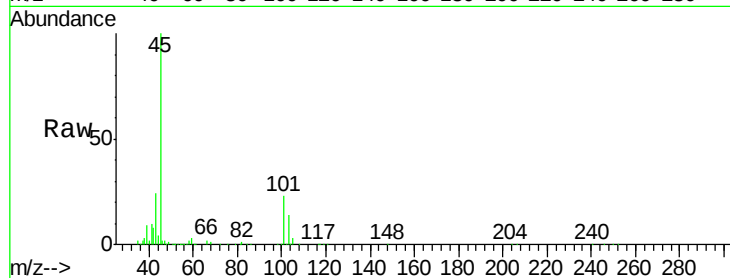
VL0702ABS01

Manual Integrations

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

600000

500000

400000

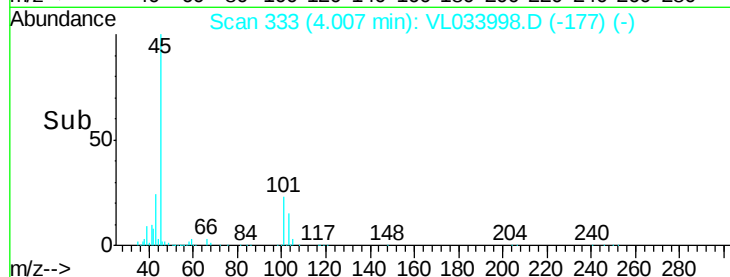
300000

200000

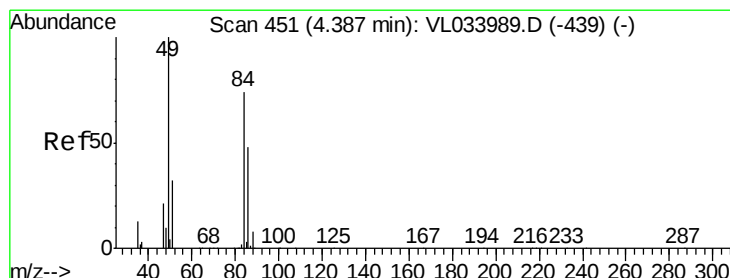
100000

0

Time-->



Time-->



#20

Methylene Chloride

Concen: 7.904 ppbv

RT: 4.39 min Scan# 451

Delta R.T. -0.00 min

Lab File: VL033998.D

Acq: 2 Jul 2019 23:57

Tgt Ion: 84 Resp: 609481

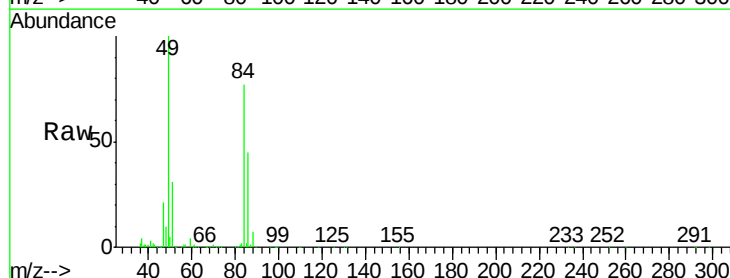
Ion Ratio Lower Upper

84 100

49 129.8 107.6 161.4

51 39.8 35.0 52.6

86 58.3 52.1 78.1



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

800000

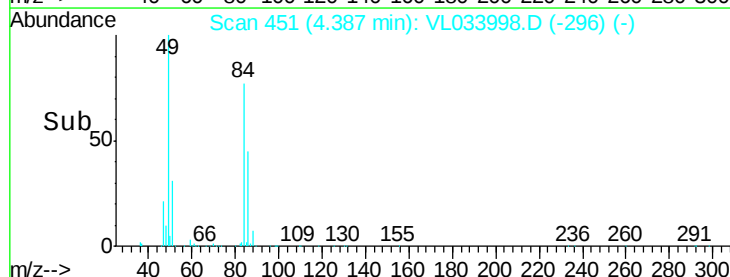
600000

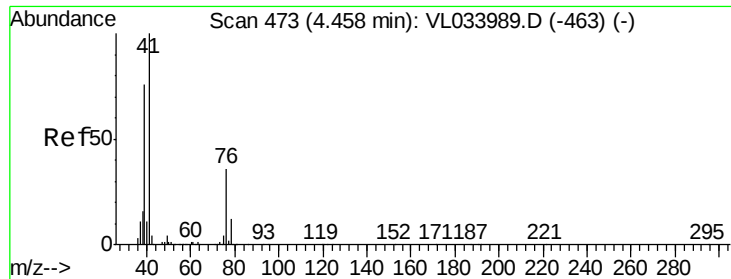
400000

200000

0

Time-->





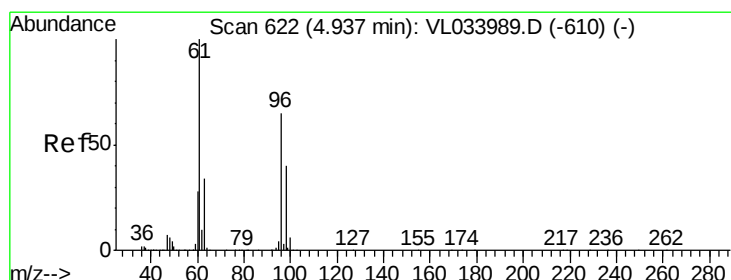
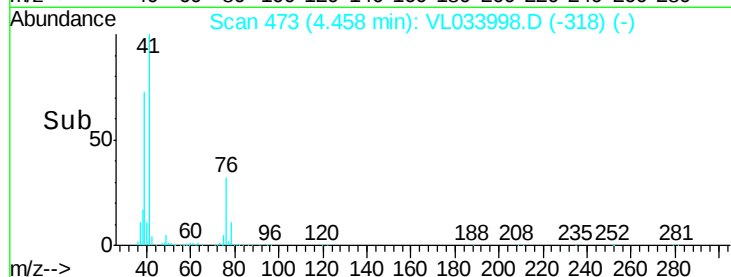
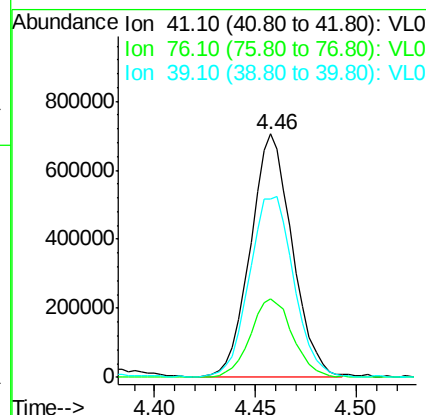
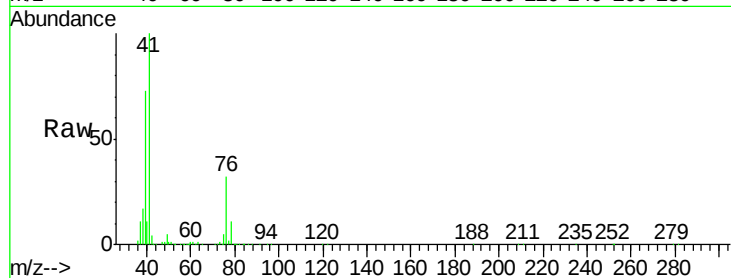
#21
Allvl Chloride
Concen: 9.203 ppbv
RT: 4.46 min Scan# 473
Delta R.T. -0.00 min
Lab File: VL033998.D
Acq: 2 Jul 2019 23:57

Instrument :
MSVOA_L
ClientSampleId :
VL0702ABS01

Tot Ion	Ratio	Lower	Upper
41	100		
76	33.0	26.8	40.2
39	80.3	63.1	94.7

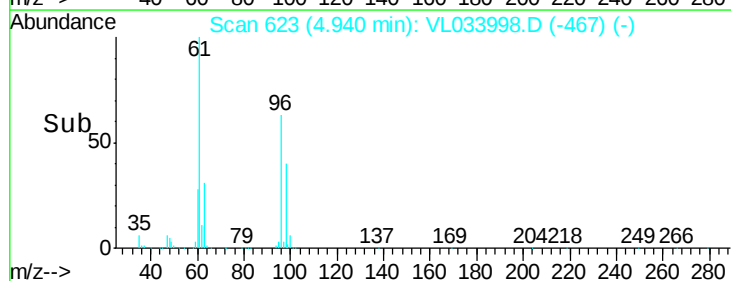
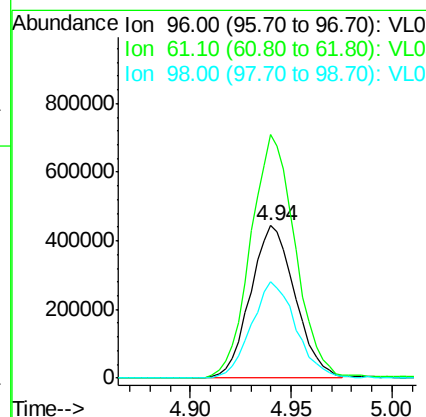
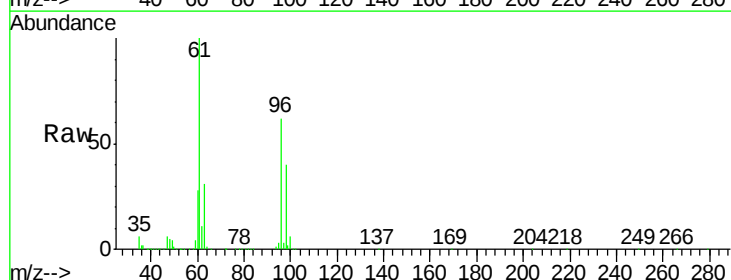
Manual Integrations
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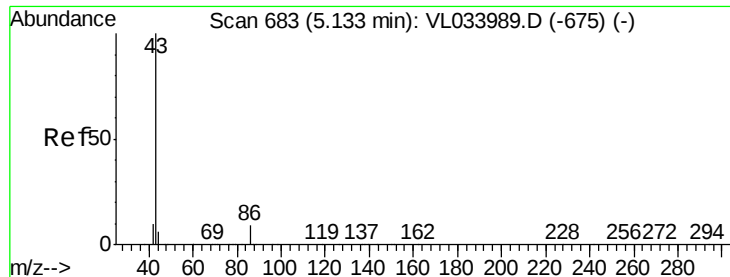
MMDadoda
7/3/2019 11:03:37 PM



#22
trans-1,2-Dichloroethene
Concen: 9.393 ppbv
RT: 4.94 min Scan# 623
Delta R.T. 0.00 min
Lab File: VL033998.D
Acq: 2 Jul 2019 23:57

Tgt Ion	Ratio	Lower	Upper
96	100		
61	159.9	122.9	184.3
98	63.2	49.6	74.4





#23

Vinyl Acetate

Concen: 10.080 ppbv

RT: 5.13 min Scan# 683

Delta R.T. -0.00 min

Lab File: VL033998.D

Acq: 2 Jul 2019 23:57

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion: 43 Resp: 1778860

Ion Ratio Lower Upper

43 100

86 8.3 6.6 9.8

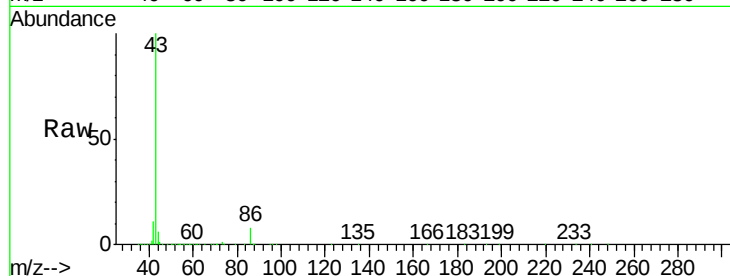
42 11.1 8.3 12.5

44 6.0 4.3 6.5

Manual Integrations
APPROVED

MMDadoda

7/3/2019 11:03:37 PM

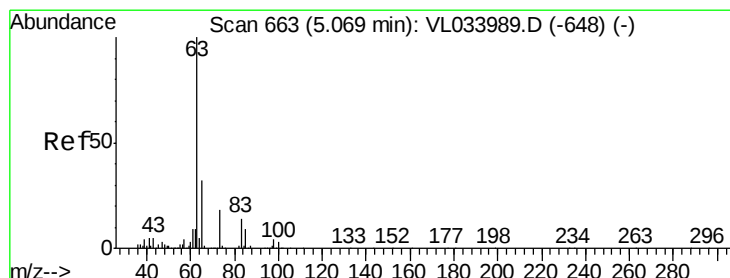
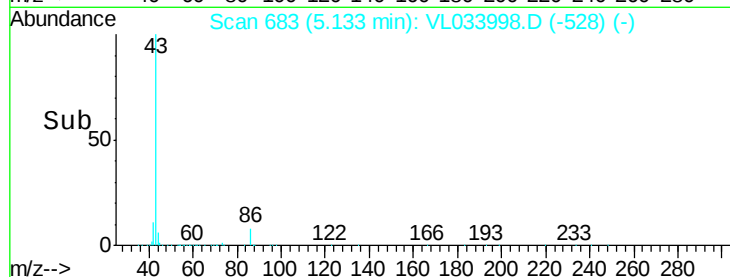
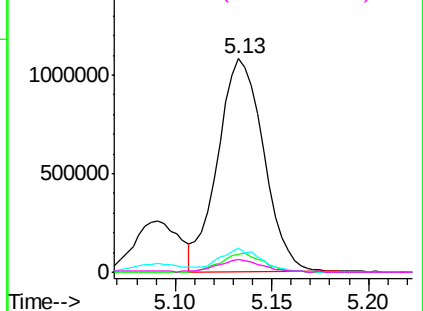


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 9.052 ppbv

RT: 5.07 min Scan# 663

Delta R.T. -0.00 min

Lab File: VL033998.D

Acq: 2 Jul 2019 23:57

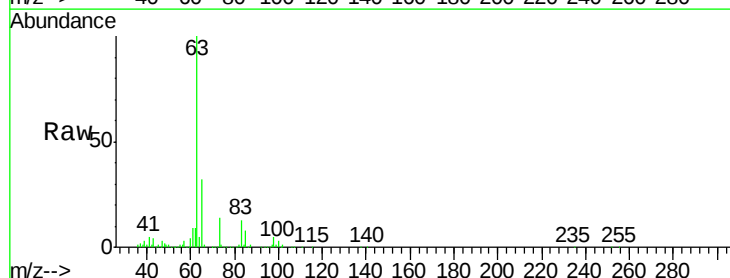
Tgt Ion: 63 Resp: 1415738

Ion Ratio Lower Upper

63 100

98 4.5 2.2 6.6

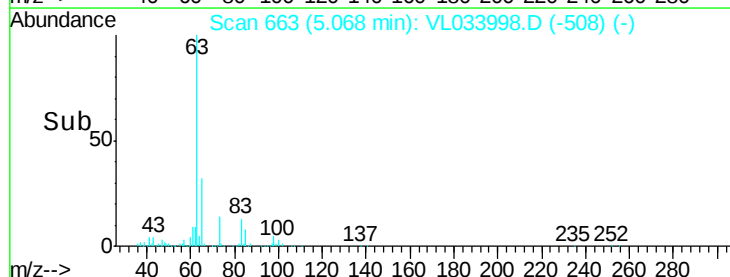
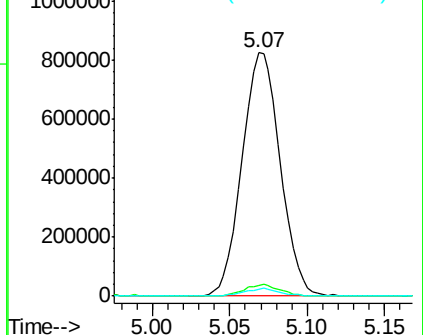
100 2.6 1.4 4.2

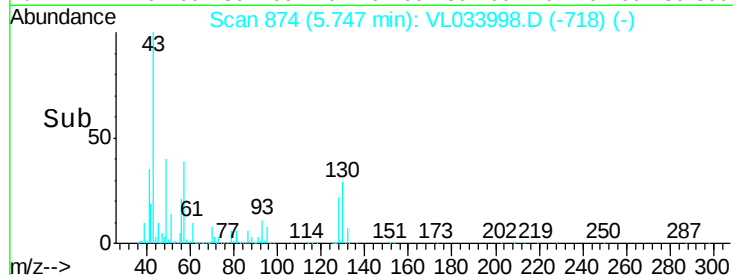
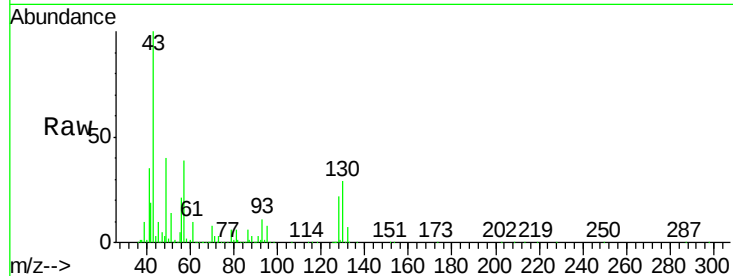
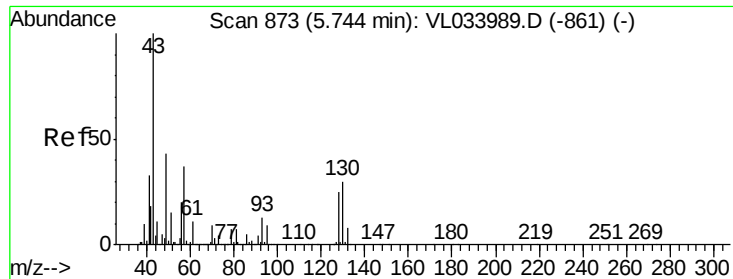


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

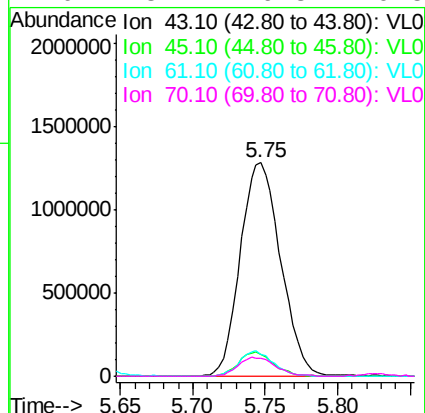
Ion 100.00 (99.70 to 100.70): VL0





#25
Ethyl Acetate
Concen: 10.247 ppbv
RT: 5.75 min Scan# 874
Delta R.T. 0.00 min
Lab File: VL033998.D
Acq: 2 Jul 2019 23:57

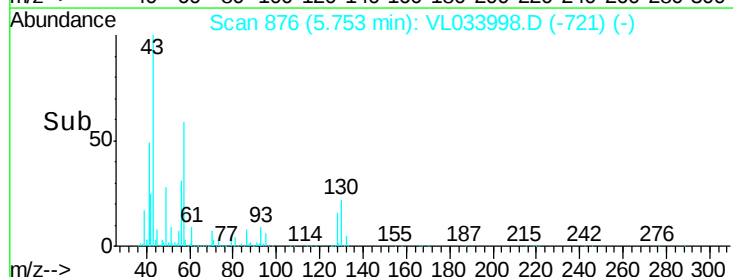
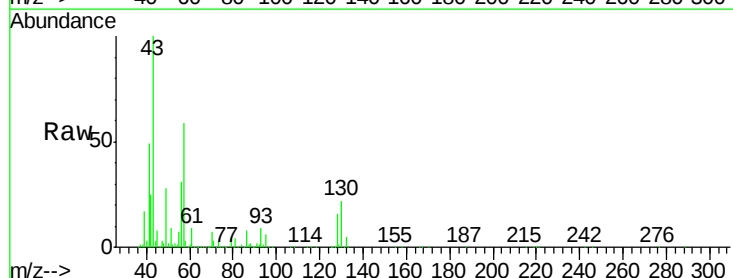
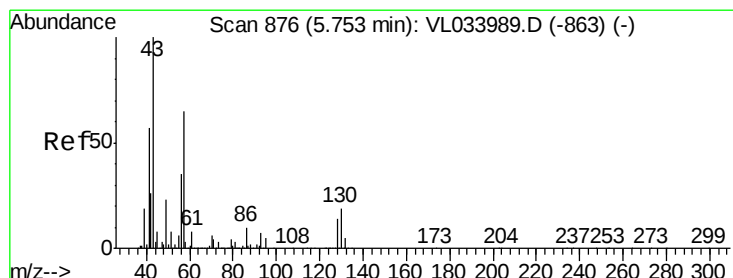
Tot Ion	43	Resp	2478146
Ion	Ratio	Lower	Upper
43	100		
45	10.0	8.1	12.1
61	10.2	8.1	12.1
70	8.1	6.3	9.5



Instrument :
MSVOA_L
ClientSampleId :
VL0702ABS01

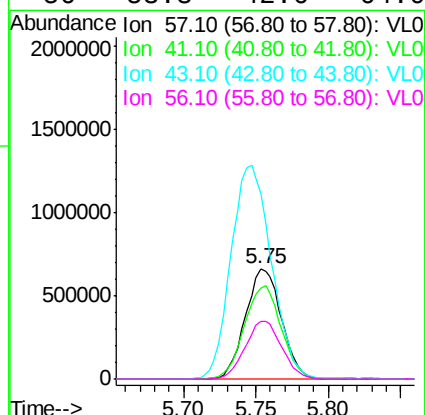
Manual Integrations
APPROVED

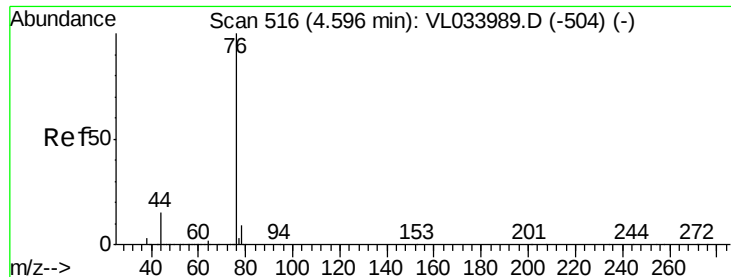
MMDadoda
7/3/2019 11:03:37 PM



#26
Hexane
Concen: 10.326 ppbv
RT: 5.75 min Scan# 876
Delta R.T. -0.00 min
Lab File: VL033998.D
Acq: 2 Jul 2019 23:57

Tgt Ion	57	Resp	1142726
Ion	Ratio	Lower	Upper
57	100		
41	87.9	70.6	105.8
43	218.7	177.6	266.4
56	53.3	42.6	64.0





#27

Carbon Disulfide

Concen: 9.302 ppbv

RT: 4.60 min Scan# 517

Delta R.T. 0.00 min

Lab File: VL033998.D

Acq: 2 Jul 2019 23:57

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion: 76 Resp: 1750110

Ion Ratio Lower Upper

76 100

44 15.6 12.6 18.8

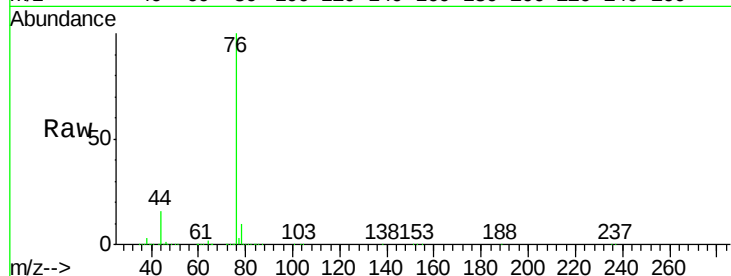
78 9.4 7.2 10.8

Manual Integrations

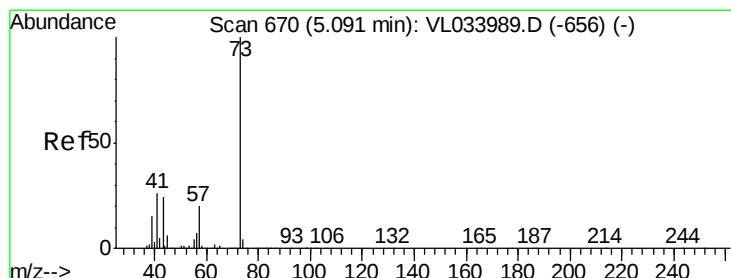
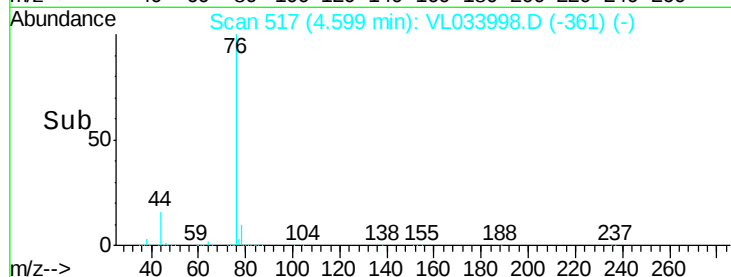
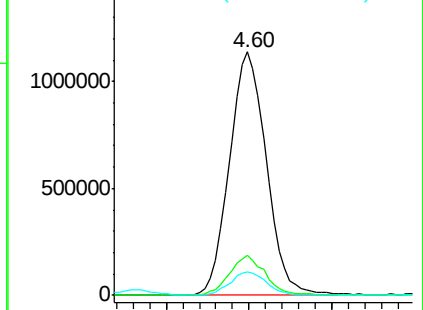
APPROVED

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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.970 ppbv

RT: 5.09 min Scan# 670

Delta R.T. -0.00 min

Lab File: VL033998.D

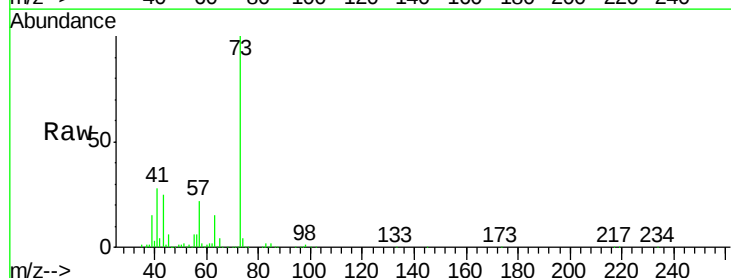
Acq: 2 Jul 2019 23:57

Tgt Ion: 73 Resp: 1868564

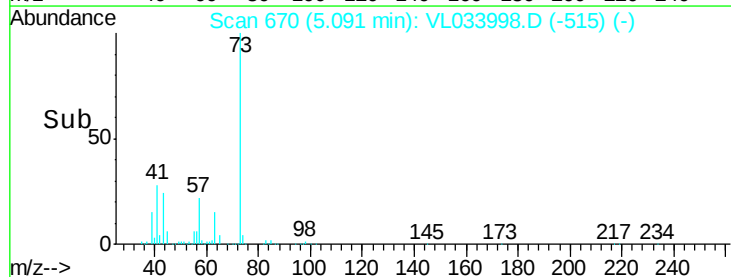
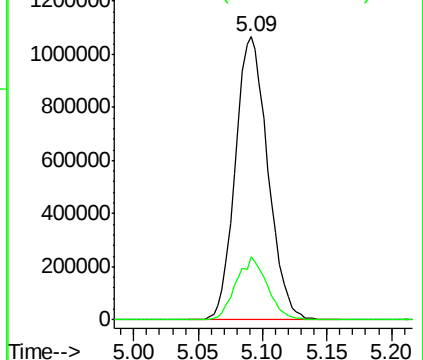
Ion Ratio Lower Upper

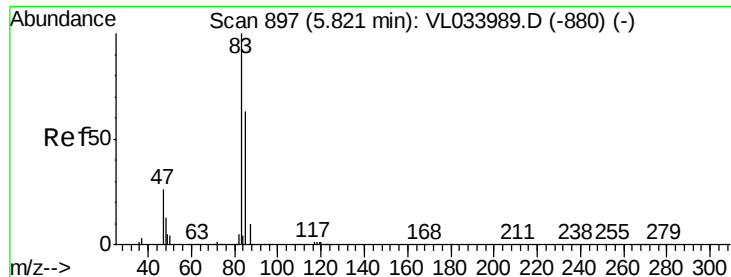
73 100

57 21.6 16.9 25.3



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





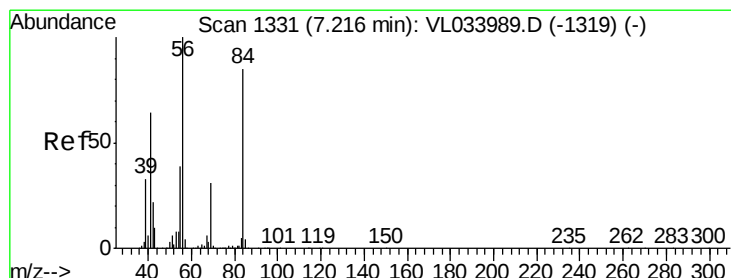
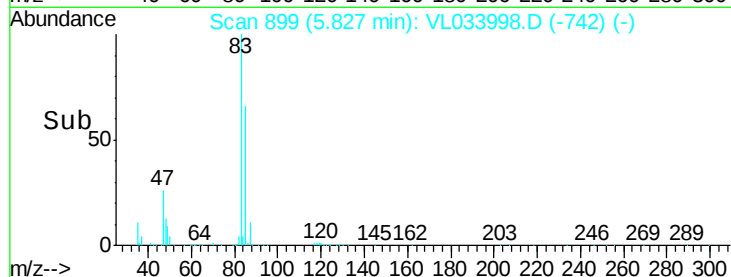
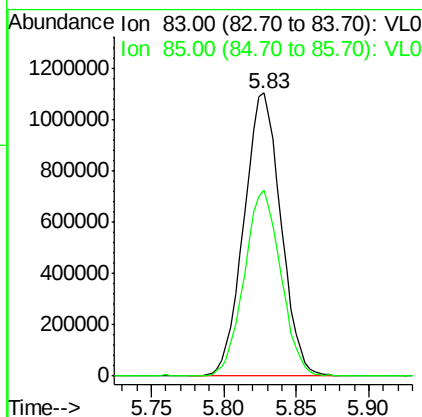
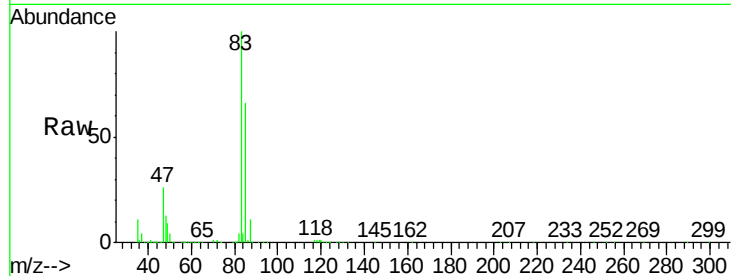
#29
Chloroform
Concen: 9.438 ppbv
RT: 5.83 min Scan# 899
Delta R.T. 0.01 min
Lab File: VL033998.D
Acq: 2 Jul 2019 23:57

Instrument :
MSVOA_L
ClientSampleId :
VL0702ABS01

Tot Ion: 83 Resp: 1962841
Ion Ratio Lower Upper
83 100
85 65.9 50.6 75.8

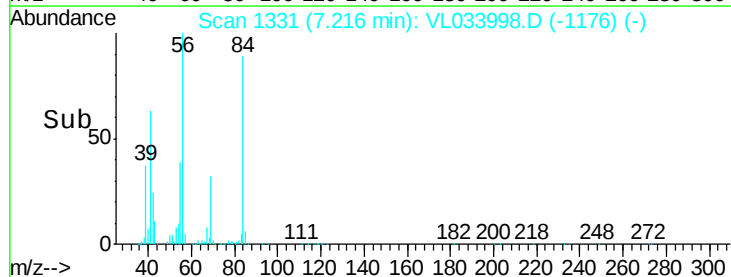
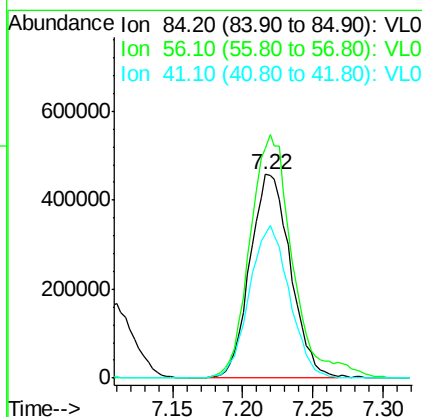
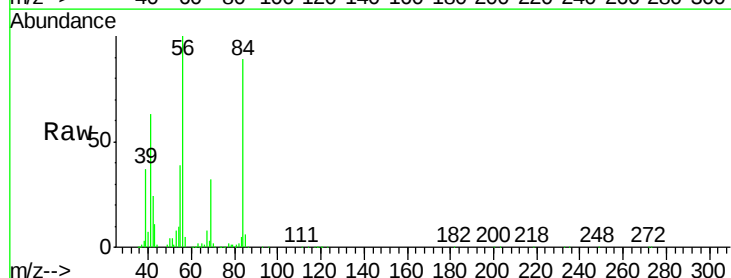
Manual Integrations
APPROVED

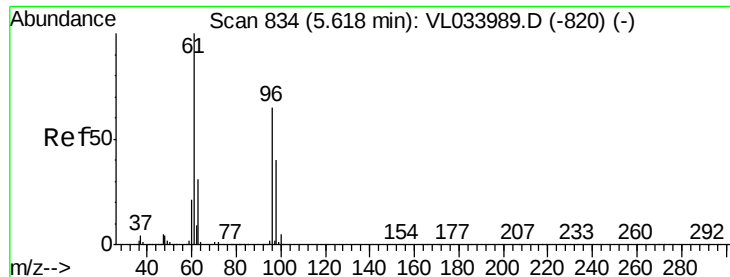
MMDadoda
7/3/2019 11:03:37 PM



#30
Cyclohexane
Concen: 10.766 ppbv
RT: 7.22 min Scan# 1331
Delta R.T. -0.00 min
Lab File: VL033998.D
Acq: 2 Jul 2019 23:57

Tgt Ion: 84 Resp: 920125
Ion Ratio Lower Upper
84 100
56 125.9 103.7 155.5
41 74.1 62.6 94.0





#31

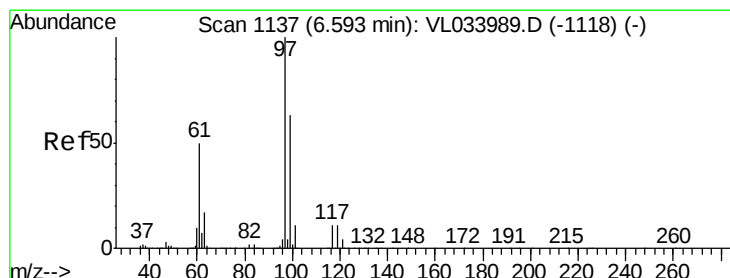
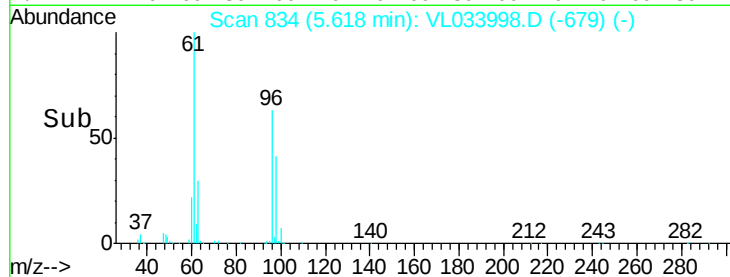
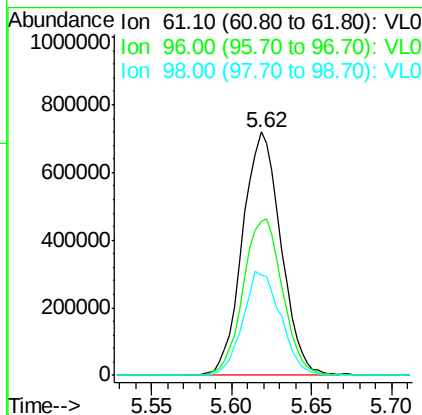
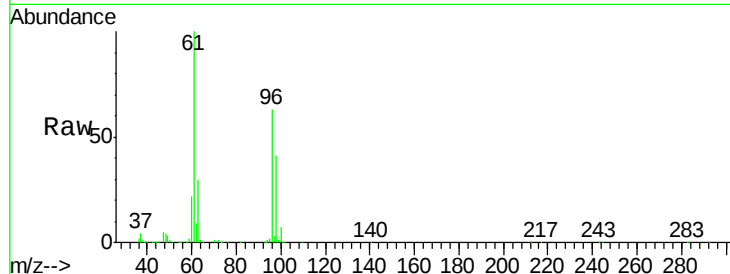
cis-1,2-Dichloroethene
 Concen: 10.986 ppbv
 RT: 5.62 min Scan# 834
 Delta R.T. -0.00 min
 Lab File: VL033998.D
 Acq: 2 Jul 2019 23:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0702ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	63.2	51.8	77.6
98	41.3	32.1	48.1

Manual Integrations
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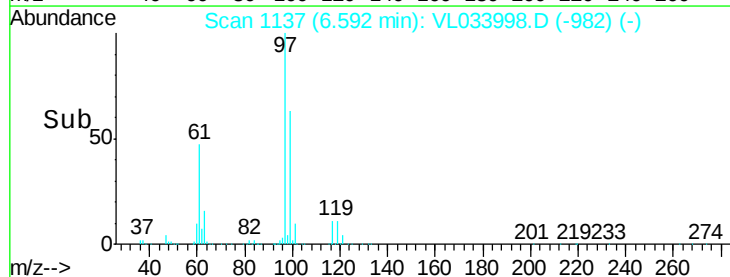
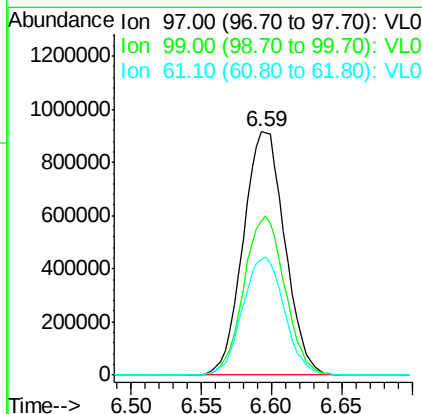
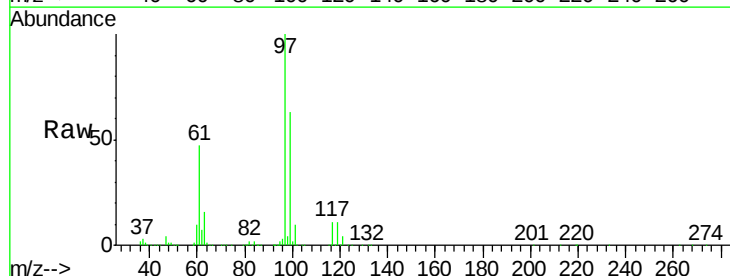
MMDadoda
 7/3/2019 11:03:37 PM

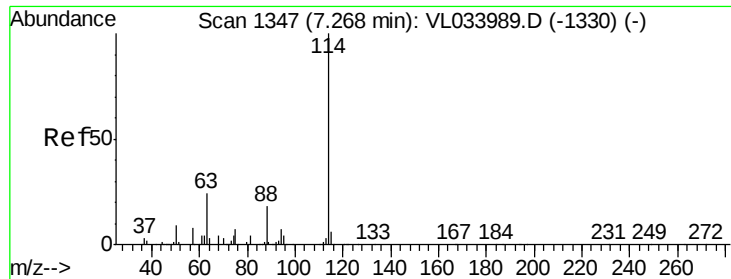


#32

1,1,1-Trichloroethane
 Concen: 8.982 ppbv
 RT: 6.59 min Scan# 1137
 Delta R.T. -0.00 min
 Lab File: VL033998.D
 Acq: 2 Jul 2019 23:57

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.3	51.9	77.9
61	48.5	39.8	59.8





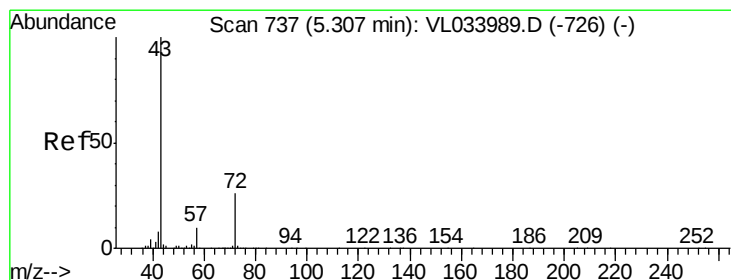
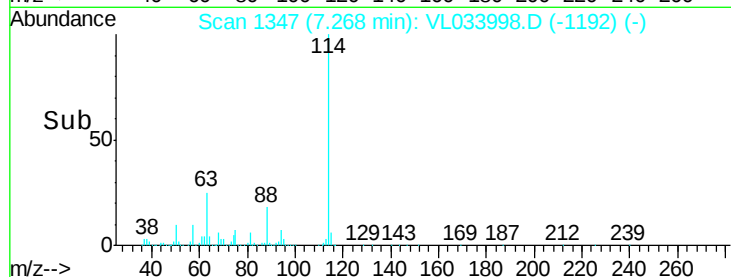
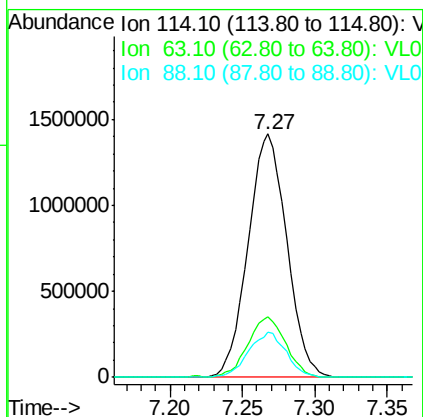
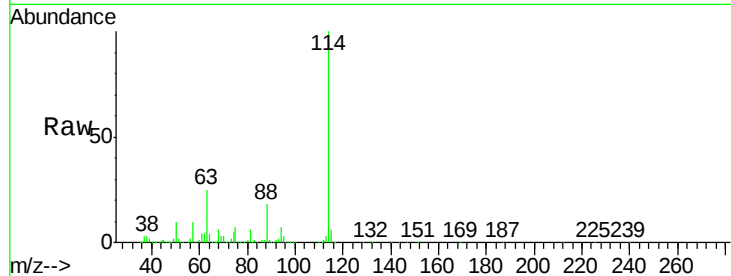
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.27 min Scan# 1347
 Delta R.T. -0.00 min
 Lab File: VL033998.D
 Acq: 2 Jul 2019 23:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0702ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.0	20.2	30.2
88	17.9	14.1	21.1

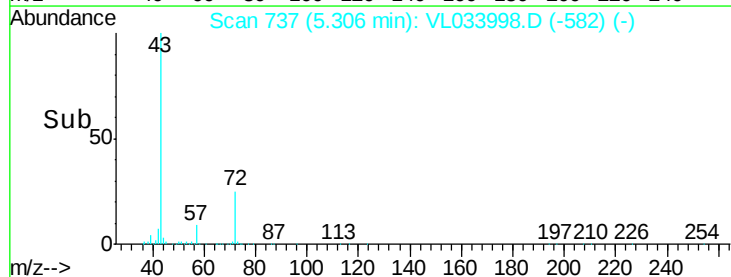
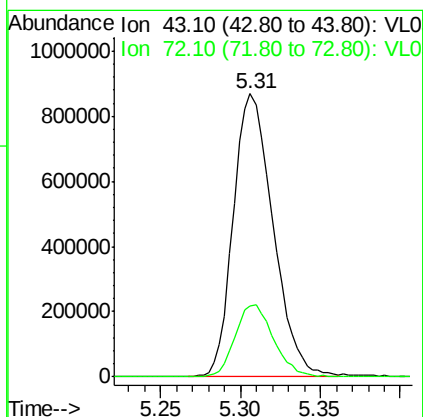
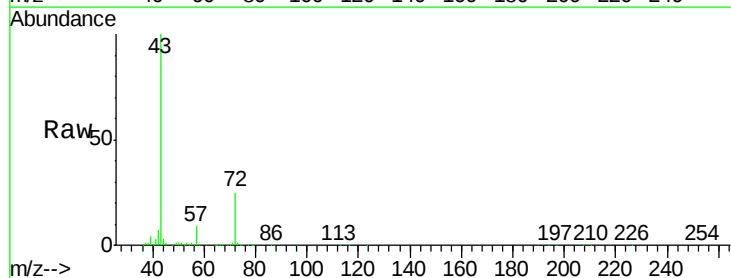
Manual Integrations
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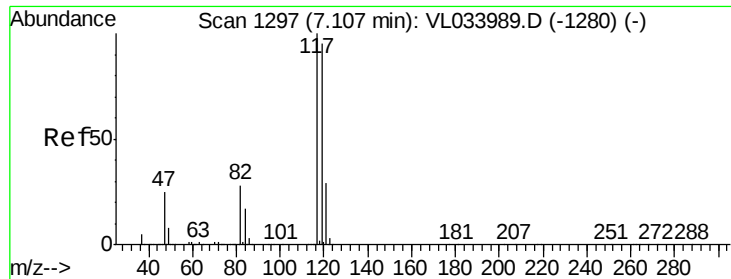
MMDadoda
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#34
 2-Butanone
 Concen: 10.539 ppbv
 RT: 5.31 min Scan# 737
 Delta R.T. -0.00 min
 Lab File: VL033998.D
 Acq: 2 Jul 2019 23:57

Tgt Ion	Ratio	Lower	Upper
43	100		
72	24.7	19.9	29.9





#35

Carbon Tetrachloride

Concen: 9.817 ppbv

RT: 7.11 min Scan# 1298

Delta R.T. 0.00 min

Lab File: VL033998.D

Acq: 2 Jul 2019 23:57

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion:117 Resp: 2046201

Ion Ratio Lower Upper

117 100

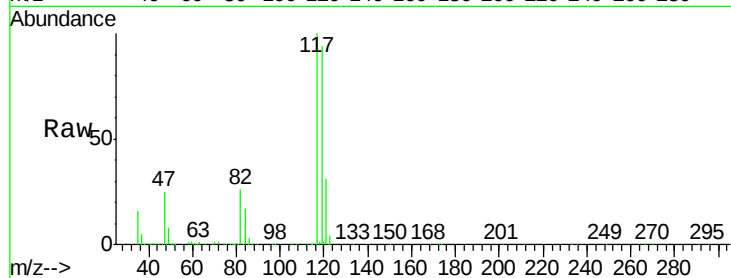
119 94.0 75.8 113.6

121 31.1 23.4 35.2

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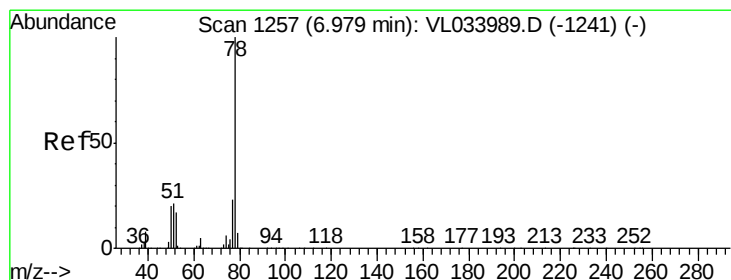
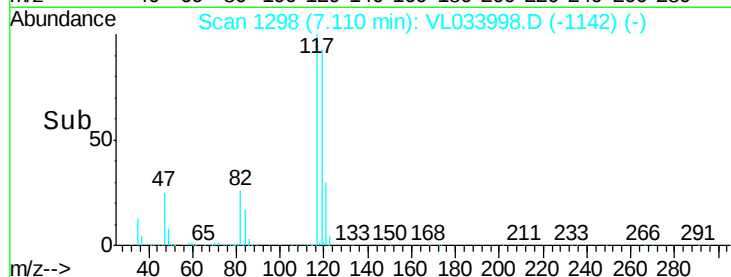
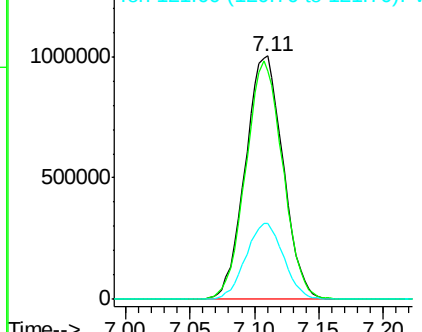
7/3/2019 11:03:37 PM



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: 10.752 ppbv

RT: 6.98 min Scan# 1257

Delta R.T. -0.00 min

Lab File: VL033998.D

Acq: 2 Jul 2019 23:57

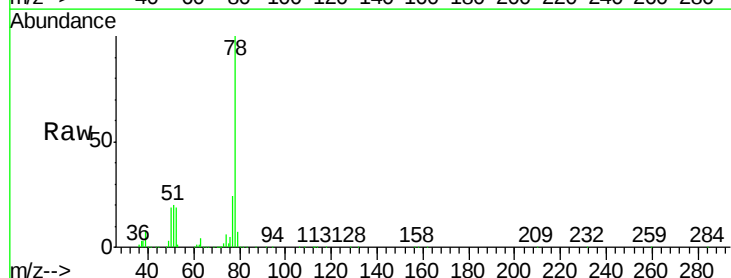
Tgt Ion: 78 Resp: 2215202

Ion Ratio Lower Upper

78 100

77 23.9 18.7 28.1

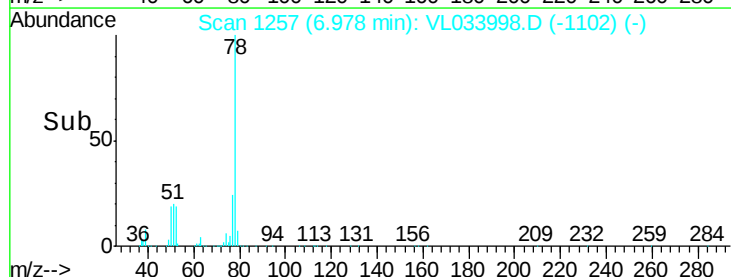
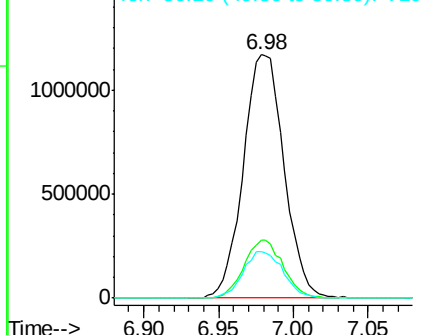
50 19.1 16.2 24.2

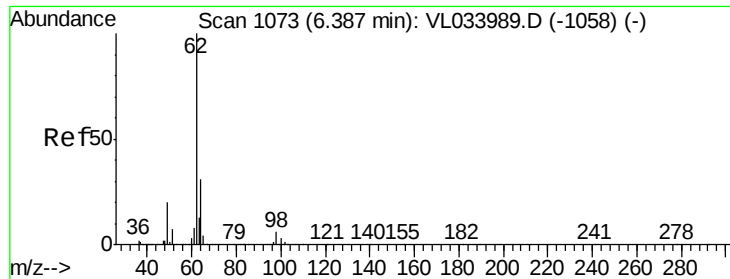


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





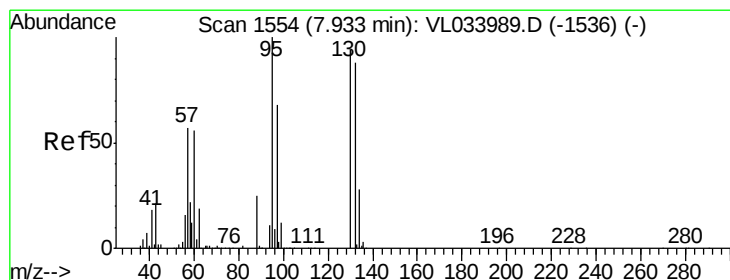
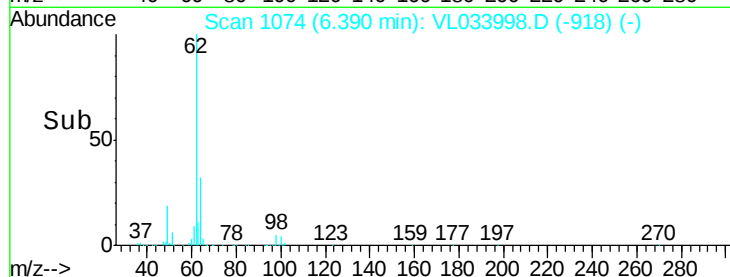
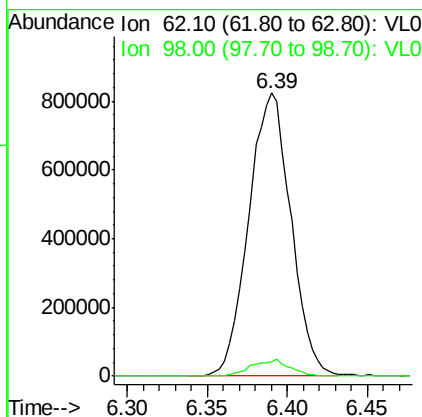
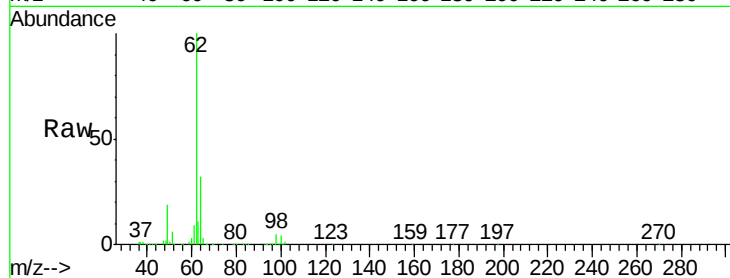
#37
 1,2-Dichloroethane
 Concen: 9.807 ppbv
 RT: 6.39 min Scan# 1074
 Delta R.T. 0.00 min
 Lab File: VL033998.D
 Acq: 2 Jul 2019 23:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0702ABS01

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.5	4.4	6.6

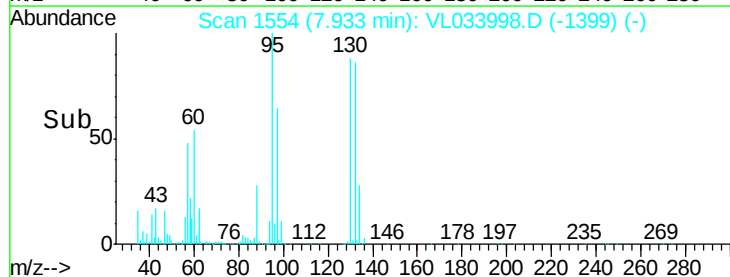
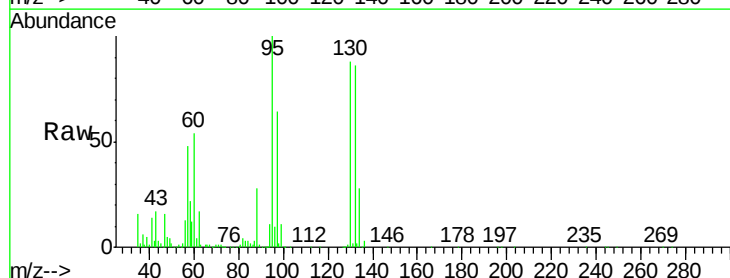
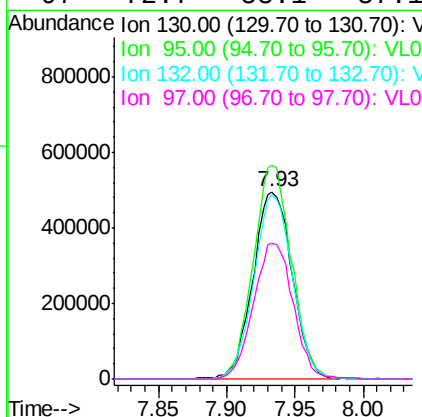
Manual Integrations
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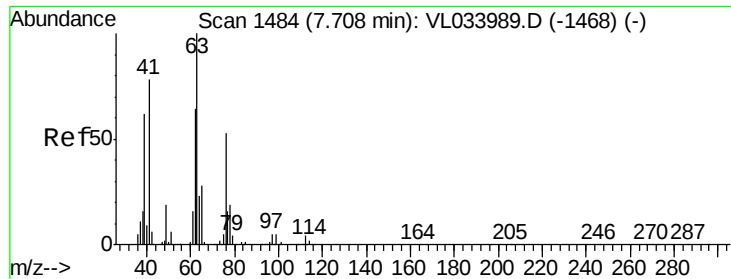
MMDadoda
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#38
 Trichloroethene
 Concen: 10.743 ppbv
 RT: 7.93 min Scan# 1554
 Delta R.T. -0.00 min
 Lab File: VL033998.D
 Acq: 2 Jul 2019 23:57

Tgt Ion	Ratio	Lower	Upper
130	100		
95	114.2	85.5	128.3
132	98.5	75.1	112.7
97	72.7	58.1	87.1





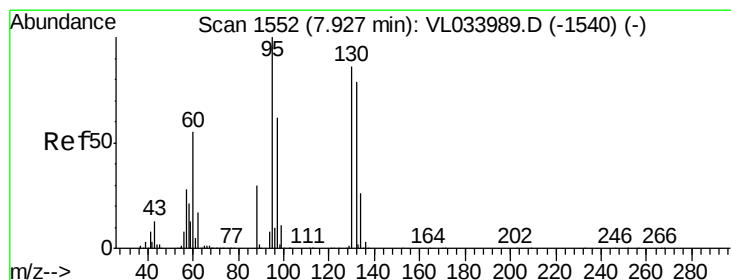
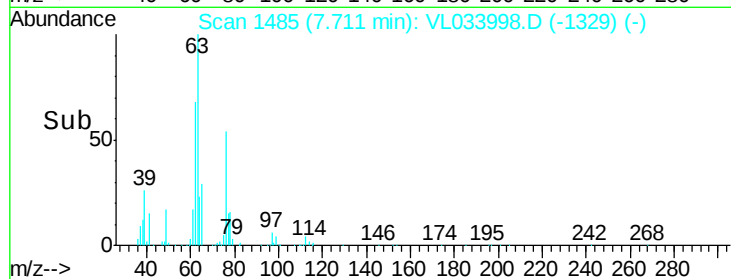
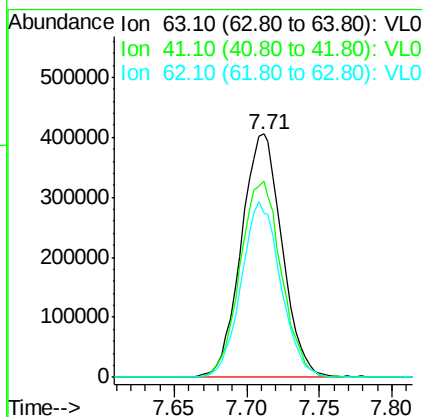
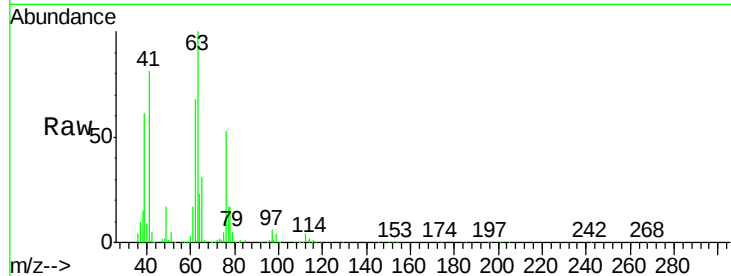
#39
 1,2-Dichloropropane
 Concen: 10.356 ppbv
 RT: 7.71 min Scan# 1485
 Delta R.T. 0.00 min
 Lab File: VL033998.D
 Acq: 2 Jul 2019 23:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0702ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	80.3	62.3	93.5
62	67.4	51.4	77.2

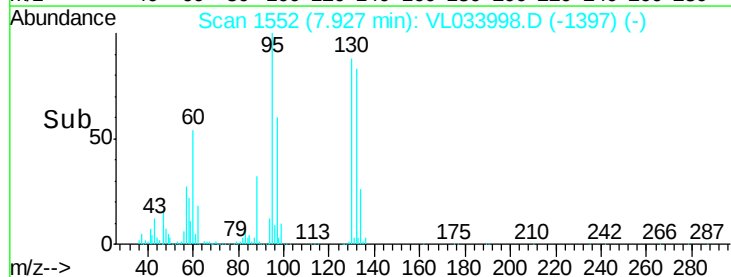
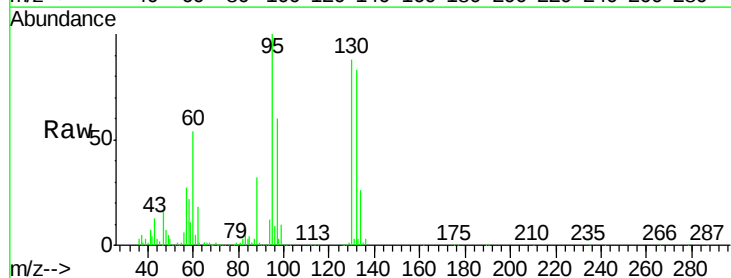
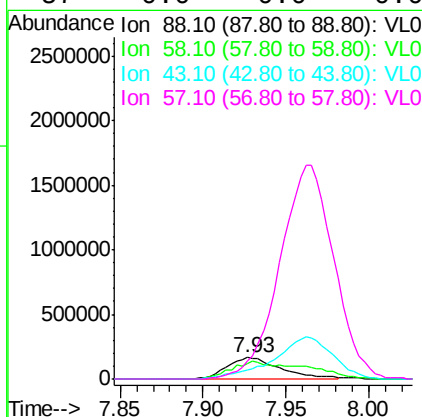
Manual Integrations
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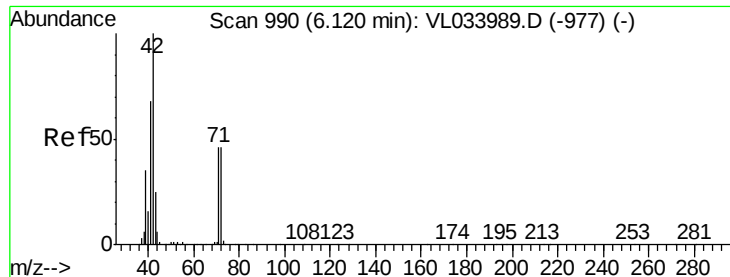
MMDadoda
 7/3/2019 11:03:37 PM



#40
 1,4-Dioxane
 Concen: 10.353 ppbv
 RT: 7.93 min Scan# 1552
 Delta R.T. -0.00 min
 Lab File: VL033998.D
 Acq: 2 Jul 2019 23:57

Tgt Ion	Ratio	Lower	Upper
88	100		
58	120.2	99.1	148.7
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 11.472 ppbv

RT: 6.12 min Scan# 990

Delta R.T. -0.00 min

Lab File: VL033998.D

Acq: 2 Jul 2019 23:57

Instrument :

MSVOA_L

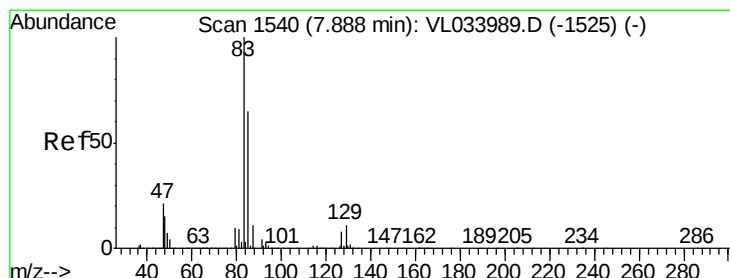
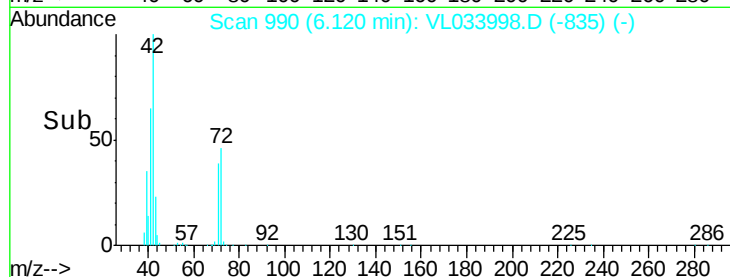
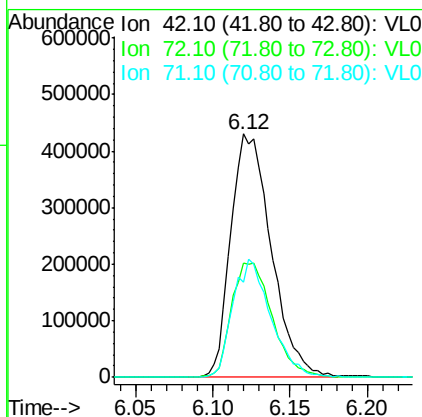
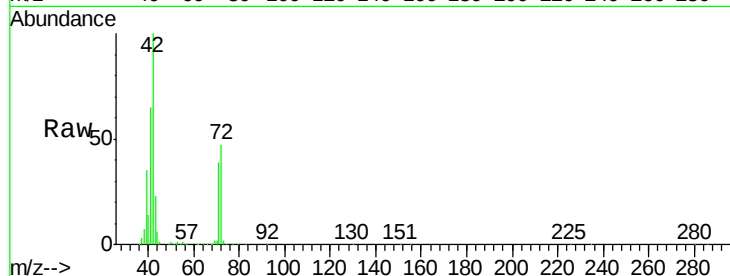
ClientSampleID :

VL0702ABS01

Tot Ion	42	Resp	783983
Ion Ratio	Lower	Upper	
42	100		
72	47.1	37.3	55.9
71	45.5	36.2	54.2

Manual Integrations
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MMDadoda
7/3/2019 11:03:37 PM



#42

Bromodichloromethane

Concen: 10.174 ppbv

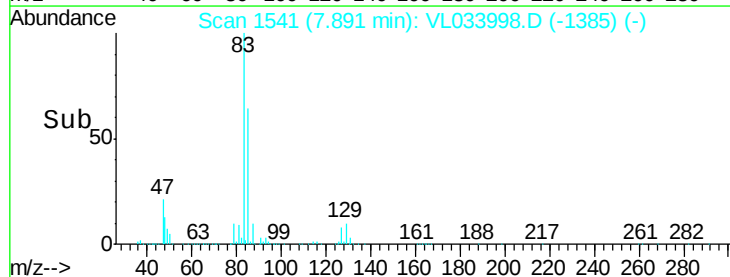
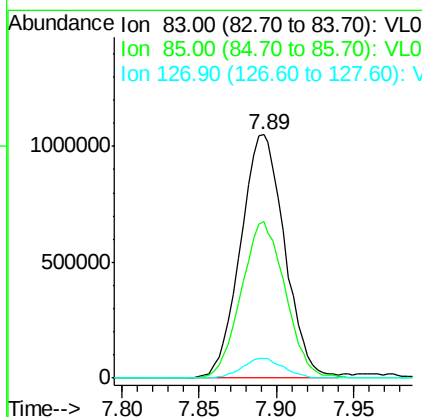
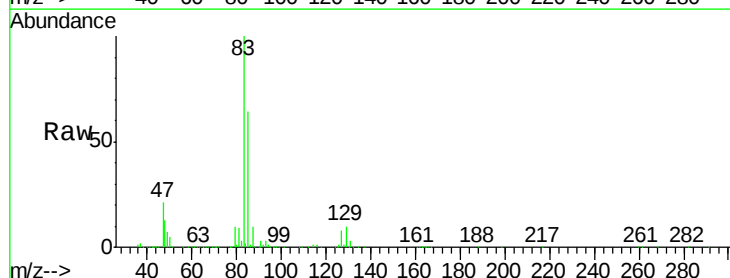
RT: 7.89 min Scan# 1541

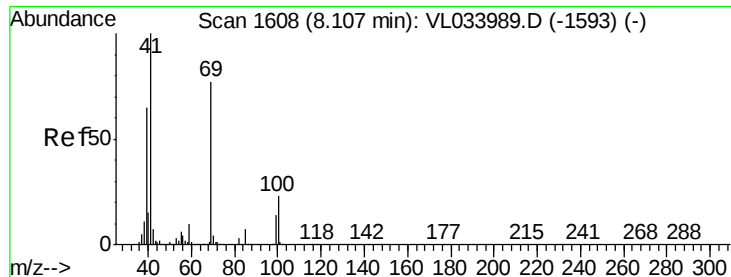
Delta R.T. 0.00 min

Lab File: VL033998.D

Acq: 2 Jul 2019 23:57

Tgt Ion	83	Resp	2071945
Ion Ratio	Lower	Upper	
83	100		
85	64.3	51.8	77.8
127	8.0	6.5	9.7





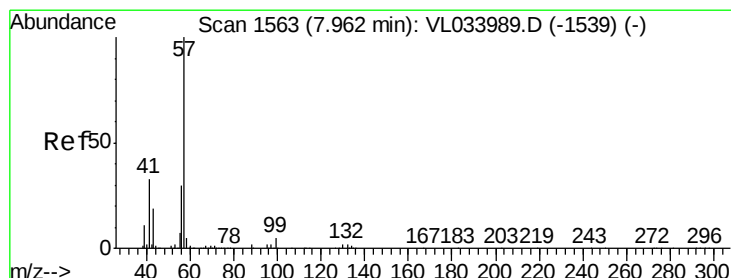
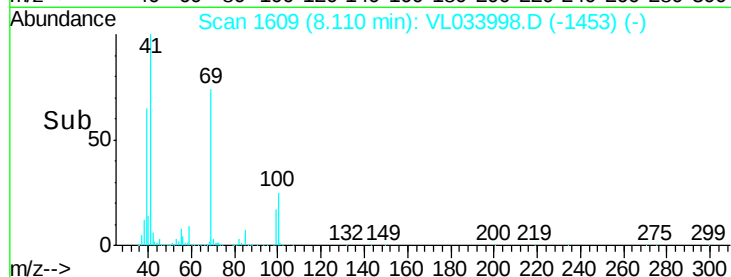
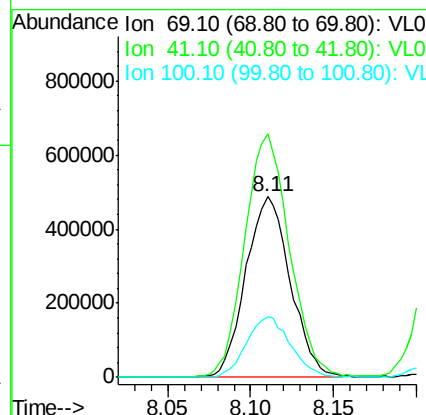
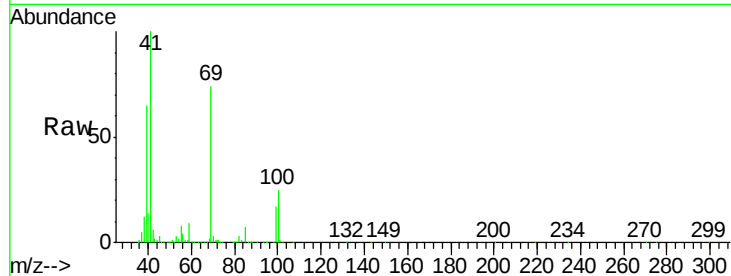
#43
Methvl Methacrilate
Concen: 11.618 ppbv
RT: 8.11 min Scan# 1609
Delta R.T. 0.00 min
Lab File: VL033998.D
Acq: 2 Jul 2019 23:57

Instrument :
MSVOA_L
ClientSampleId :
VL0702ABS01

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	135.9	109.1	163.7	
100	33.3	25.3	37.9	

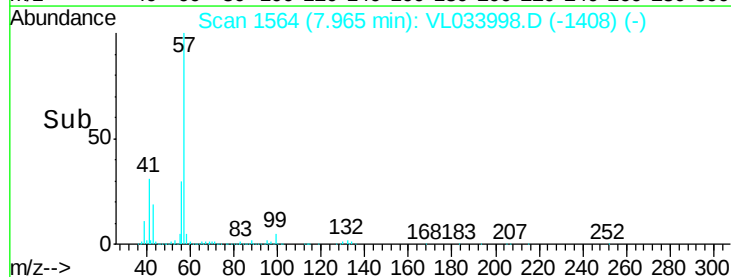
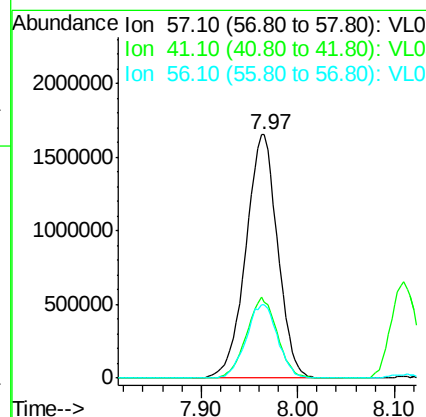
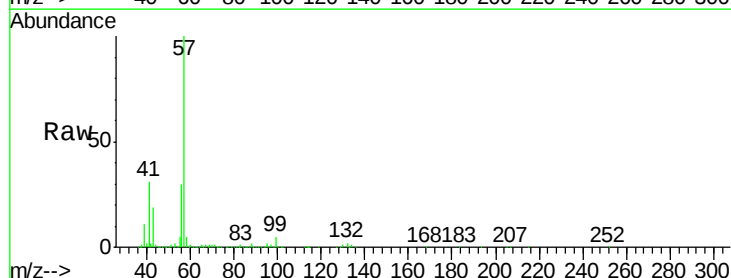
Manual Integrations
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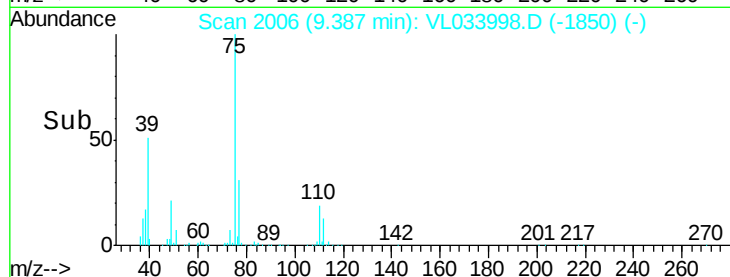
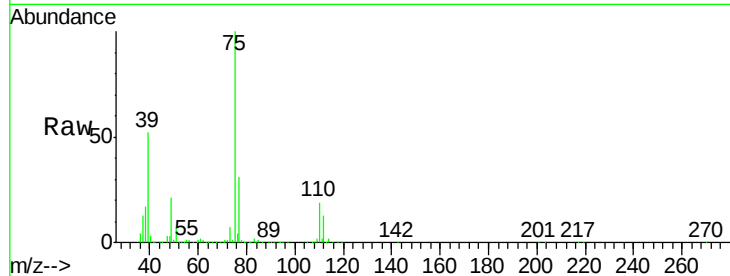
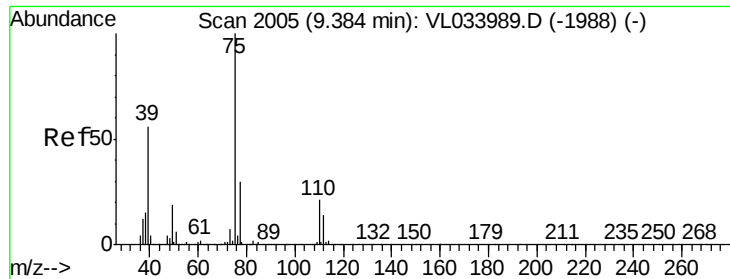
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 10.613 ppbv
RT: 7.97 min Scan# 1564
Delta R.T. 0.00 min
Lab File: VL033998.D
Acq: 2 Jul 2019 23:57

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	32.0	26.1	39.1	
56	30.0	24.4	36.6	





#45

t-1,3-Dichloropropene

Concen: 12.892 ppbv

RT: 9.39 min Scan# 2006

Delta R.T. 0.00 min

Lab File: VL033998.D

Acq: 2 Jul 2019 23:57

Tot Ion: 75 Resp: 1317728

Ion Ratio Lower Upper

75 100

77 31.1 24.3 36.5

Instrument :

MSVOA_L

ClientSampleId :

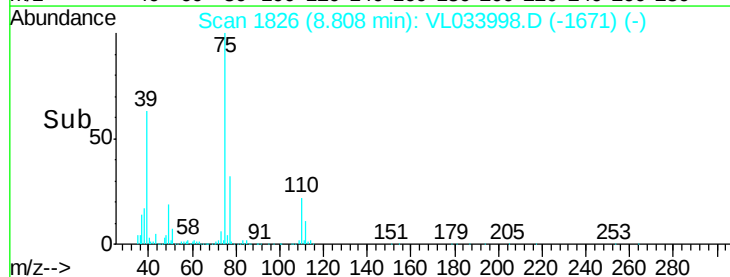
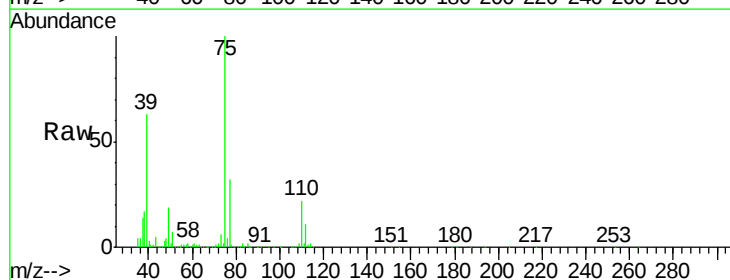
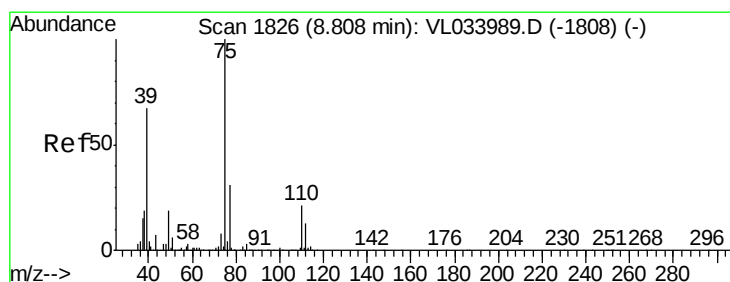
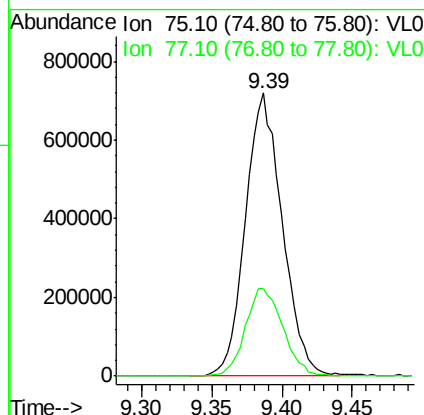
VL0702ABS01

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#46

cis-1,3-Dichloropropene

Concen: 11.852 ppbv

RT: 8.81 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VL033998.D

Acq: 2 Jul 2019 23:57

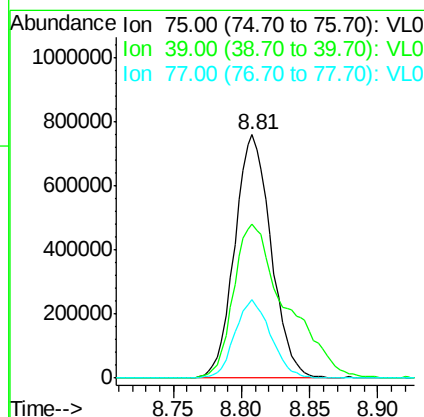
Tgt Ion: 75 Resp: 1403058

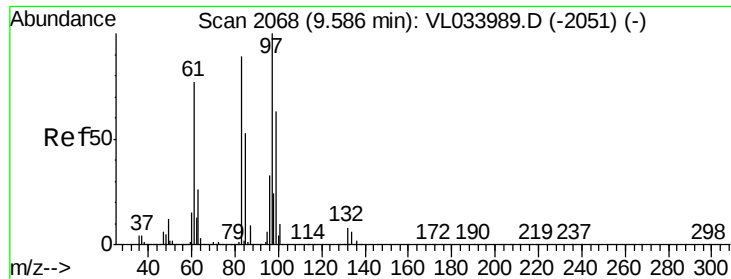
Ion Ratio Lower Upper

75 100

39 63.1 53.8 80.6

77 32.4 24.5 36.7





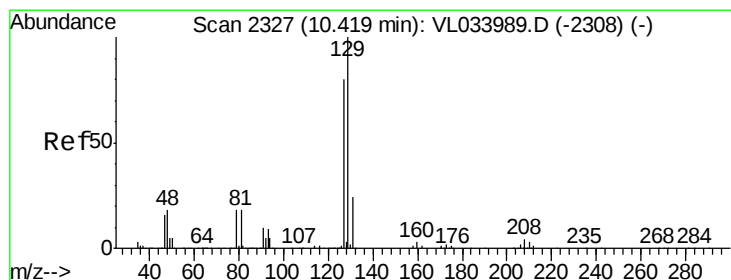
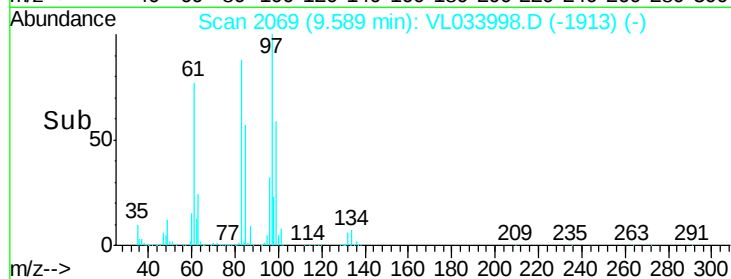
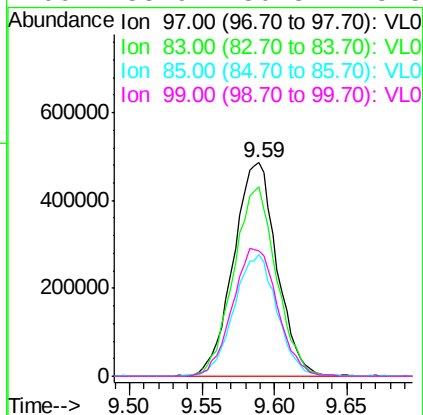
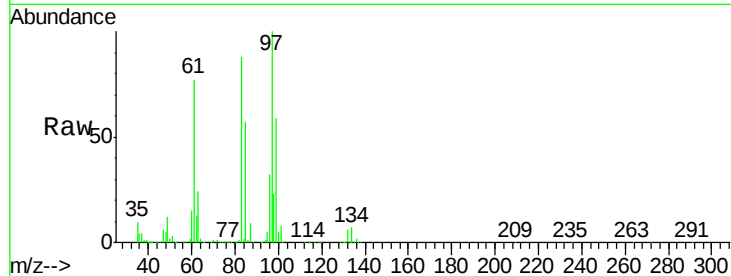
#47
 1,1,2-Trichloroethane
 Concen: 10.398 ppbv
 RT: 9.59 min Scan# 2069
 Delta R.T. 0.00 min
 Lab File: VL033998.D
 Acq: 2 Jul 2019 23:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0702ABS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	88.3	71.1	106.7
85	56.8	42.6	64.0
99	58.9	50.3	75.5

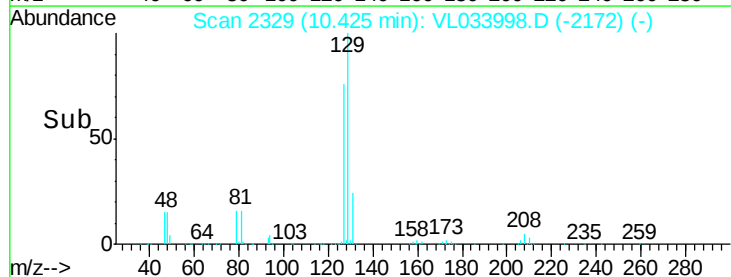
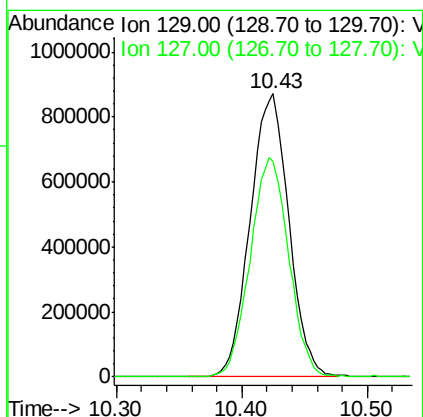
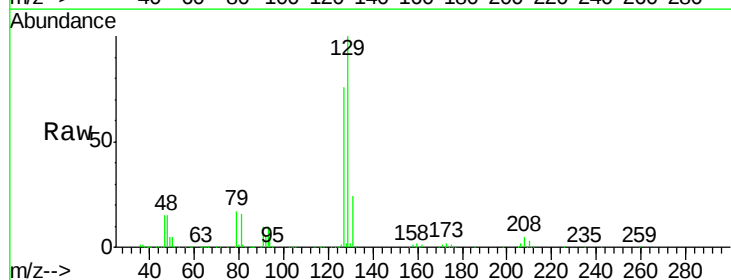
Manual Integrations
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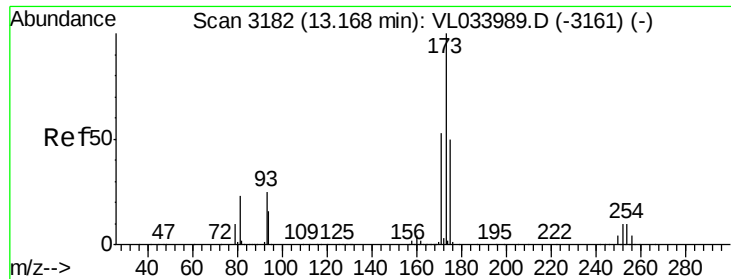
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#48
 Dibromochloromethane
 Concen: 10.158 ppbv
 RT: 10.43 min Scan# 2329
 Delta R.T. 0.01 min
 Lab File: VL033998.D
 Acq: 2 Jul 2019 23:57

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.4	39.1	117.3





#49

Bromoform

Concen: 11.438 ppbv

RT: 13.17 min Scan# 3183

Delta R.T. 0.00 min

Lab File: VL033998.D

Acq: 2 Jul 2019 23:57

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion:173 Resp: 1795879

Ion Ratio Lower Upper

173 100

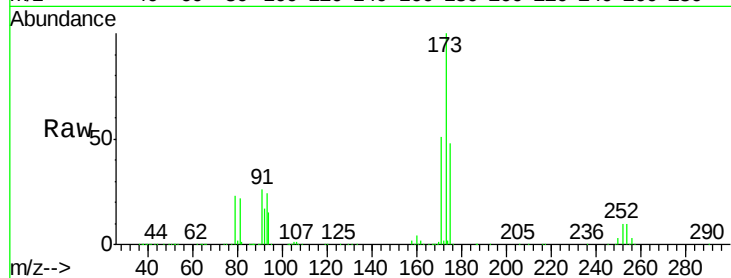
175 49.2 39.3 58.9

171 51.3 41.4 62.0

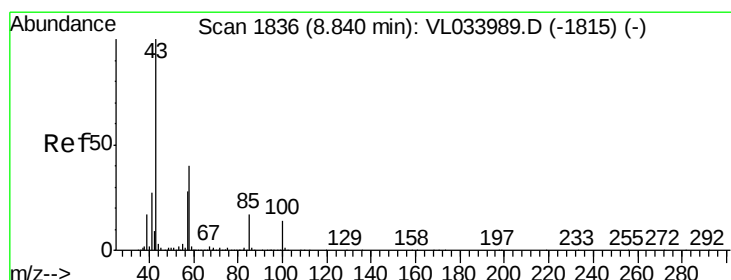
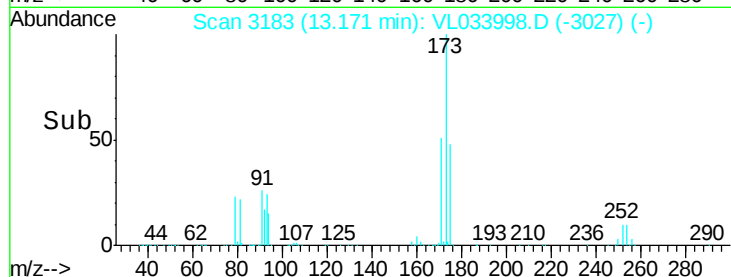
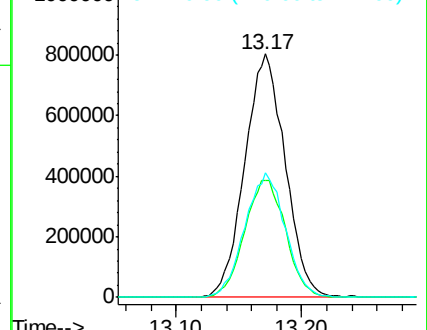
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Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 10.682 ppbv

RT: 8.84 min Scan# 1837

Delta R.T. 0.00 min

Lab File: VL033998.D

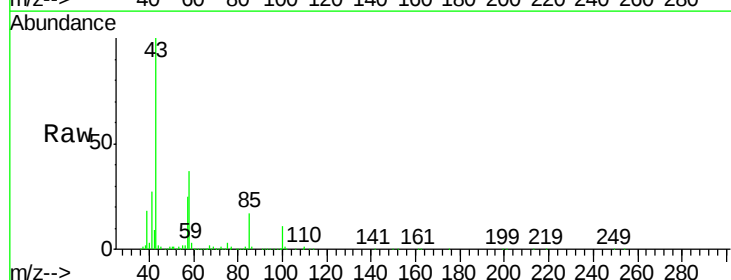
Acq: 2 Jul 2019 23:57

Tgt Ion: 43 Resp: 2208749

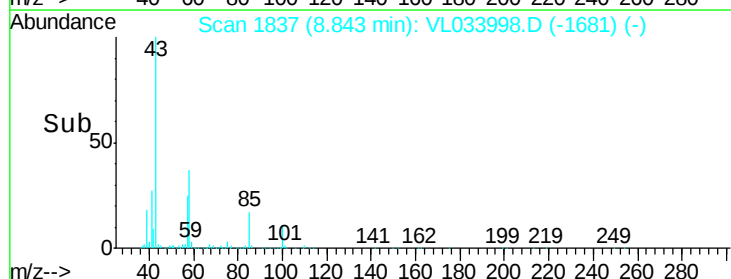
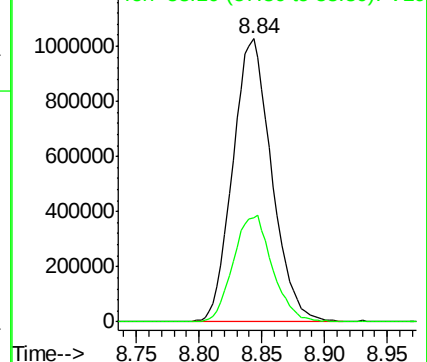
Ion Ratio Lower Upper

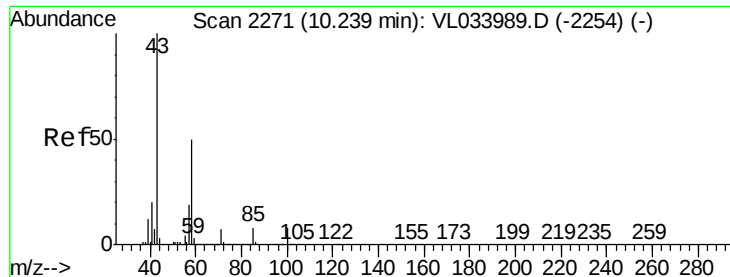
43 100

58 37.9 30.3 45.5



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





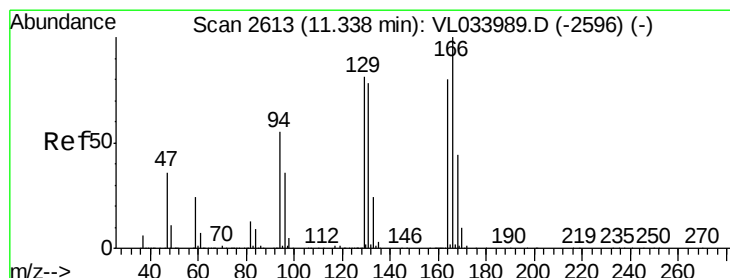
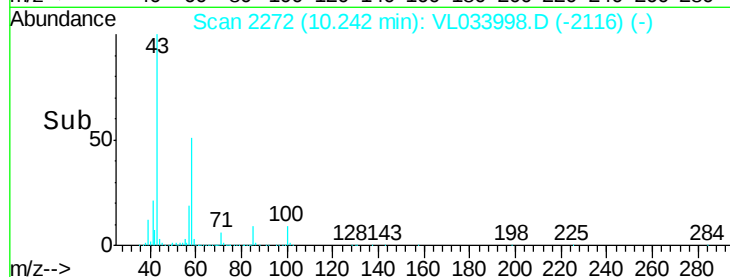
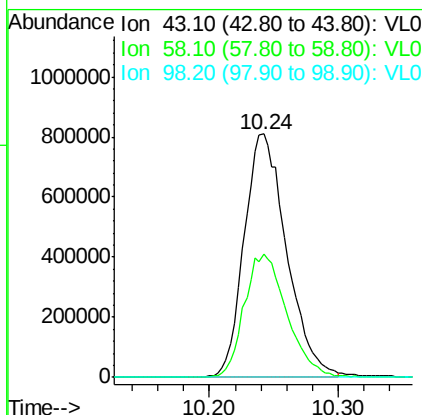
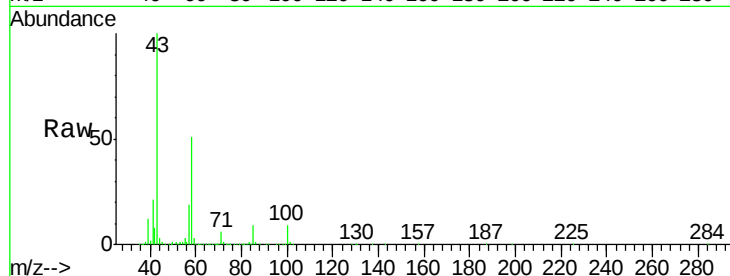
#51
2-Hexanone
Concen: 11.125 ppbv
RT: 10.24 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VL033998.D
Acq: 2 Jul 2019 23:57

Instrument :
MSVOA_L
ClientSampleId :
VL0702ABS01

Tot Ion: 43 Resp: 1855255
Ion Ratio Lower Upper
43 100
58 51.0 41.0 61.4
98 0.3 0.2 0.2#

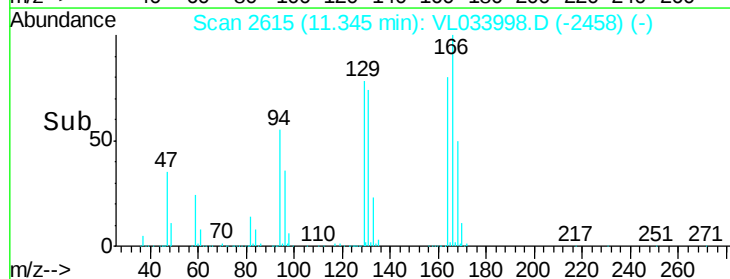
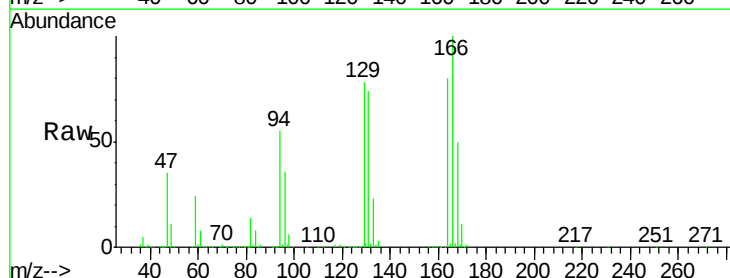
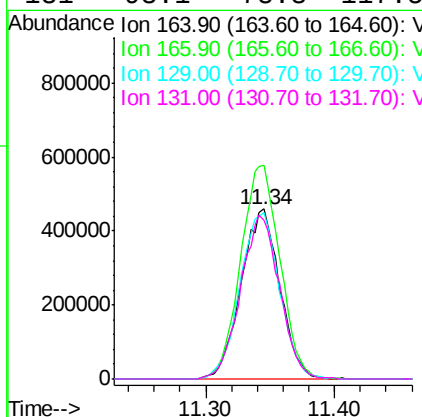
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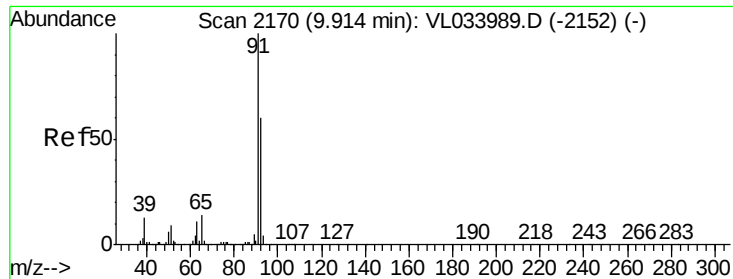
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#52
Tetrachloroethene
Concen: 10.820 ppbv
RT: 11.34 min Scan# 2615
Delta R.T. 0.01 min
Lab File: VL033998.D
Acq: 2 Jul 2019 23:57

Tgt Ion: 164 Resp: 959423
Ion Ratio Lower Upper
164 100
166 125.5 100.2 150.2
129 97.5 81.0 121.6
131 93.1 78.3 117.5





#53

Toluene

Concen: 11.833 ppbv

RT: 9.92 min Scan# 2171

Delta R.T. 0.00 min

Lab File: VL033998.D

Acq: 2 Jul 2019 23:57

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion: 91 Resp: 2790563

Ion Ratio Lower Upper

91 100

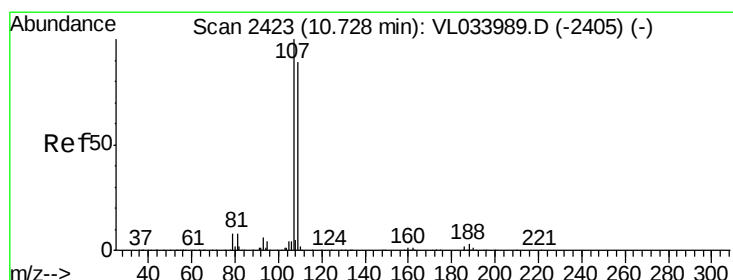
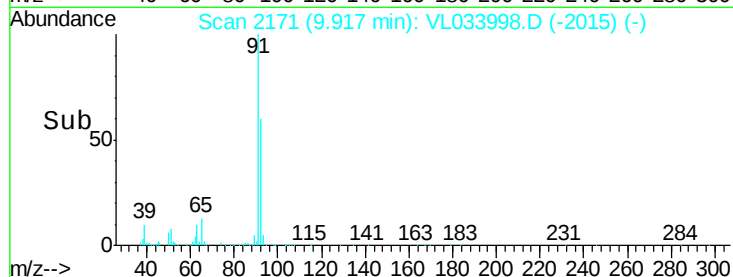
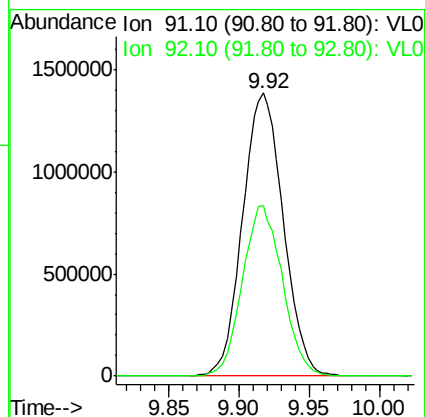
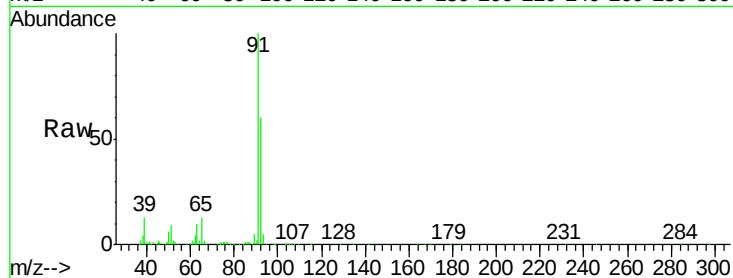
92 59.5 47.7 71.5

Manual Integrations

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MMDadoda

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#54

1,2-Dibromoethane

Concen: 11.428 ppbv

RT: 10.73 min Scan# 2424

Delta R.T. 0.00 min

Lab File: VL033998.D

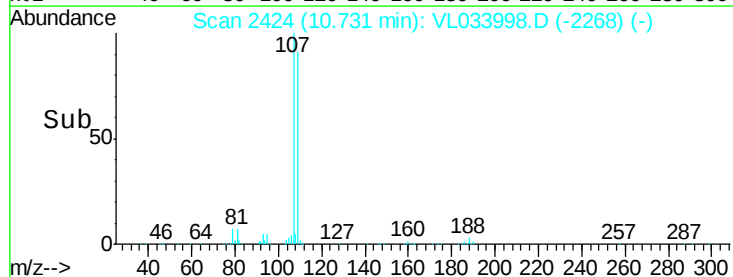
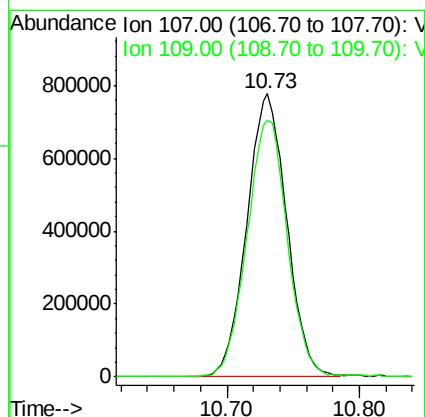
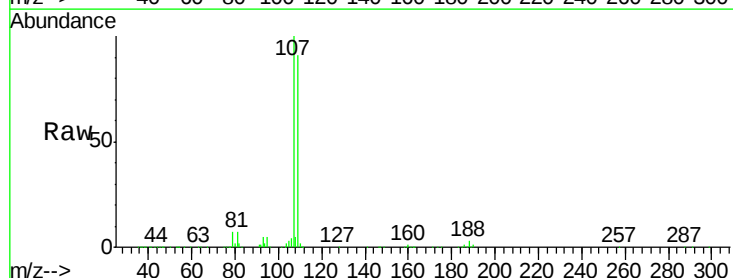
Acq: 2 Jul 2019 23:57

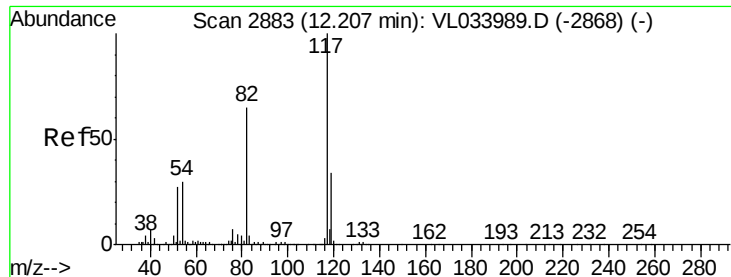
Tgt Ion:107 Resp: 1624469

Ion Ratio Lower Upper

107 100

109 90.7 71.5 107.3





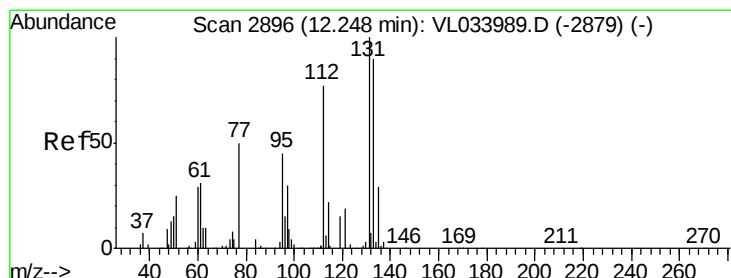
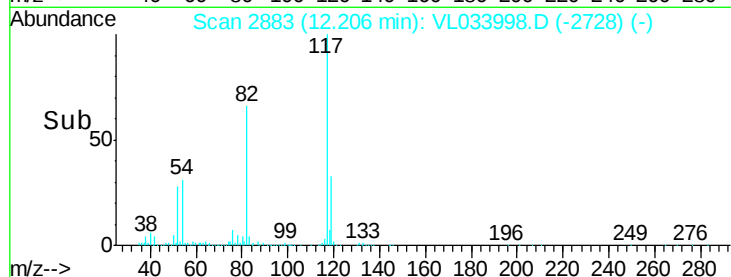
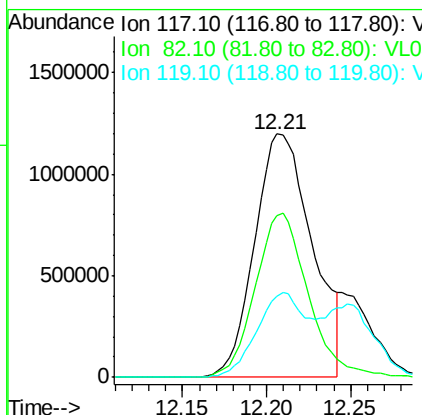
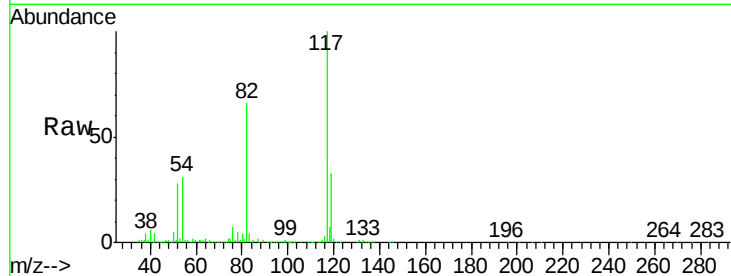
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.21 min Scan# 2883
Delta R.T. -0.00 min
Lab File: VL033998.D
Acq: 2 Jul 2019 23:57

Instrument :
MSVOA_L
ClientSampleId :
VL0702ABS01

Tot Ion:117 Resp: 2856401
Ion Ratio Lower Upper
117 100
82 62.5 50.8 76.2
119 34.4 24.0 36.0

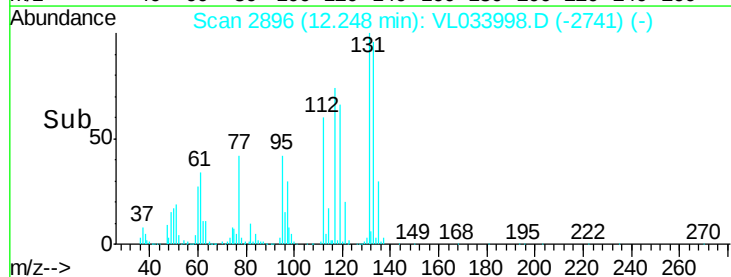
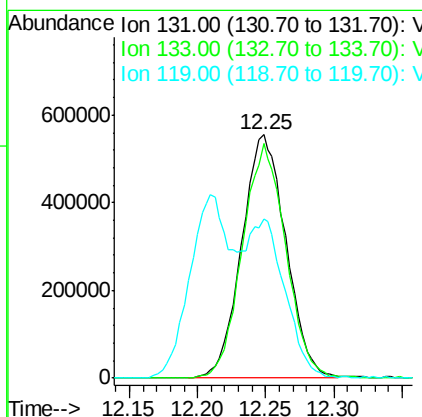
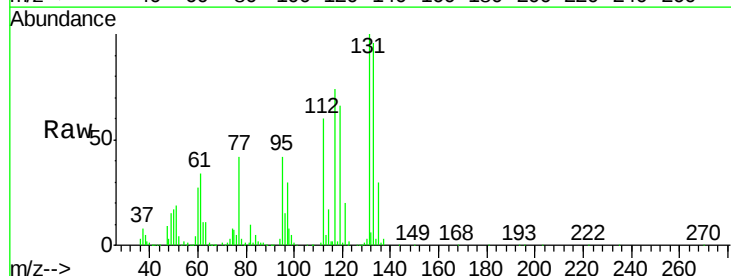
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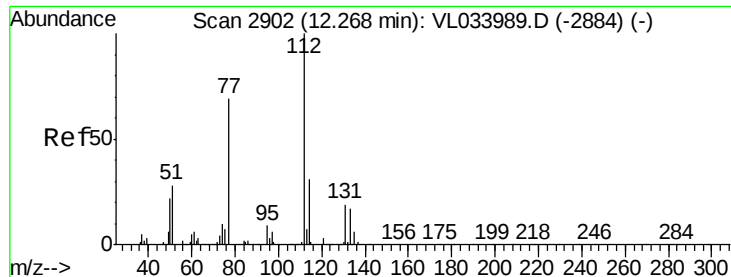
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.779 ppbv
RT: 12.25 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VL033998.D
Acq: 2 Jul 2019 23:57

Tgt Ion:131 Resp: 1248383
Ion Ratio Lower Upper
131 100
133 94.6 76.2 114.2
119 60.3 43.1 64.7





#57

Chlorobenzene

Concen: 9.626 ppbv

RT: 12.27 min Scan# 2903

Delta R.T. 0.00 min

Lab File: VL033998.D

Acq: 2 Jul 2019 23:57

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion:112 Resp: 2189094

Ion Ratio Lower Upper

112 100

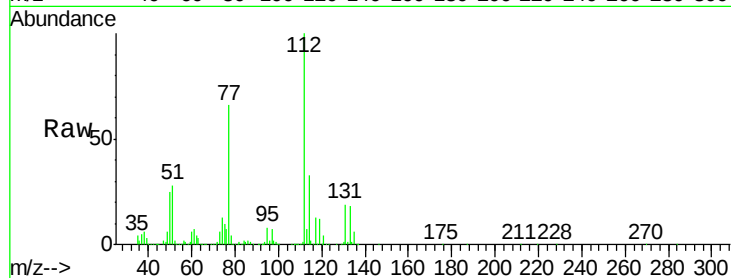
77 65.3 55.9 83.9

114 32.9 27.6 33.8

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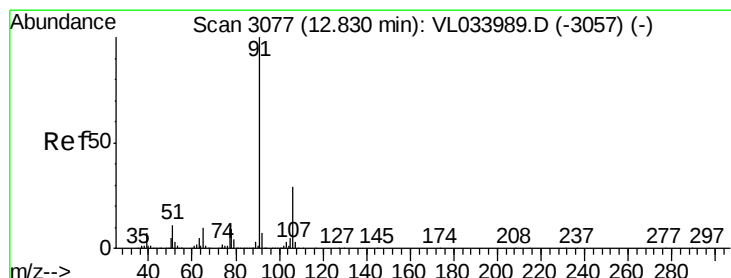
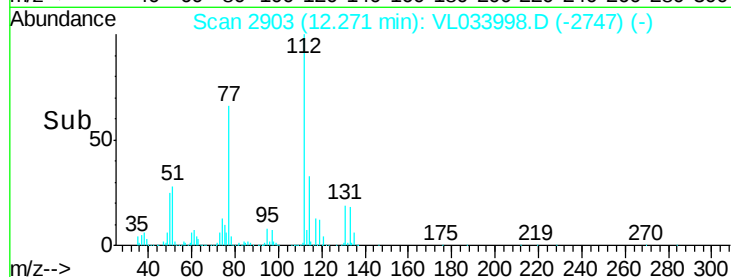
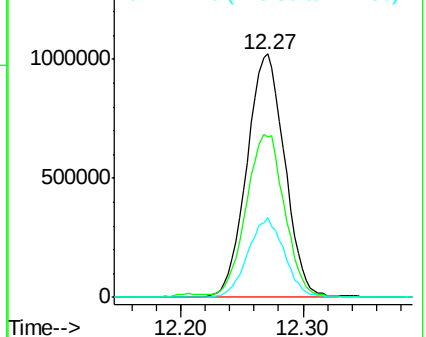
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 11.498 ppbv

RT: 12.83 min Scan# 3077

Delta R.T. -0.00 min

Lab File: VL033998.D

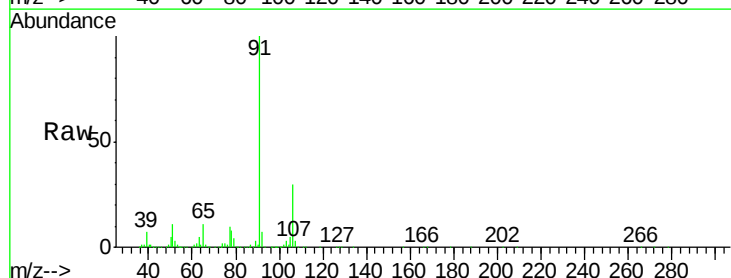
Acq: 2 Jul 2019 23:57

Tgt Ion: 91 Resp: 3949534

Ion Ratio Lower Upper

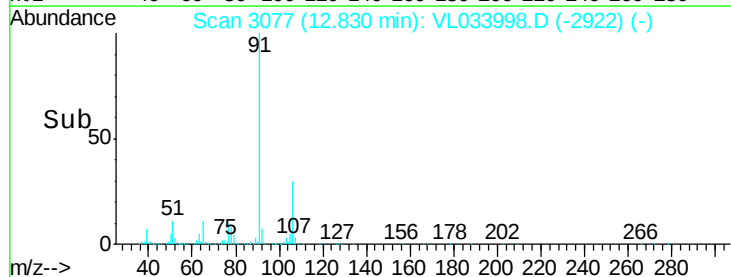
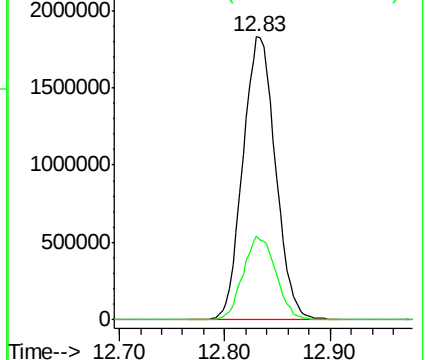
91 100

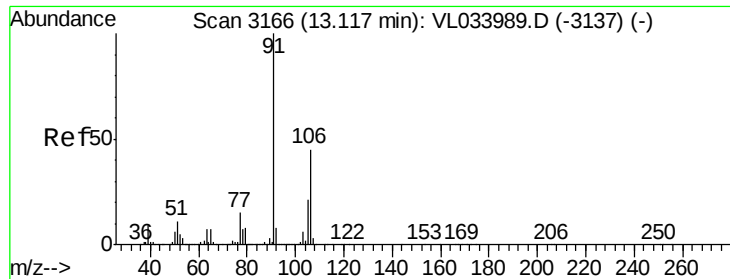
106 29.8 23.3 34.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





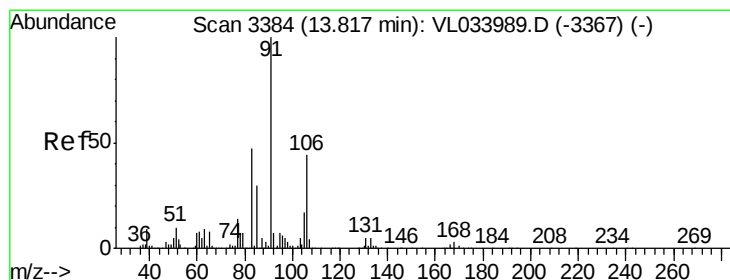
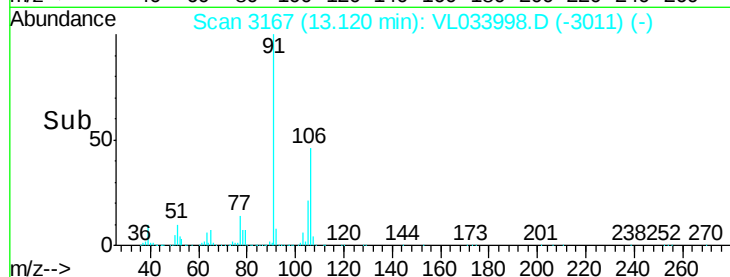
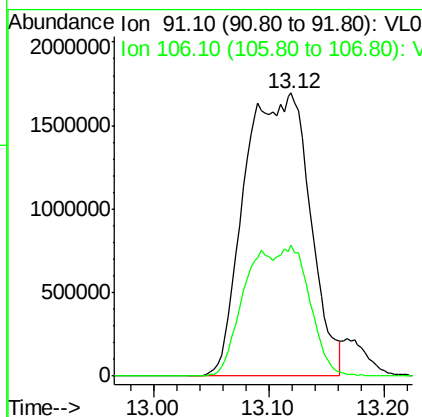
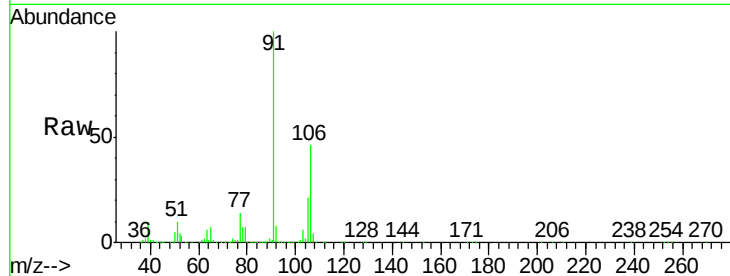
#59
m/p-Xylene
Concen: 21.462 ppbv m
RT: 13.12 min Scan# 3167
Delta R.T. 0.00 min
Lab File: VL033998.D
Acq: 2 Jul 2019 23:57

Instrument :
MSVOA_L
ClientSampleId :
VL0702ABS01

Tot Ion: 91 Resp: 6675268
Ion Ratio Lower Upper
91 100
106 44.6 35.7 53.5

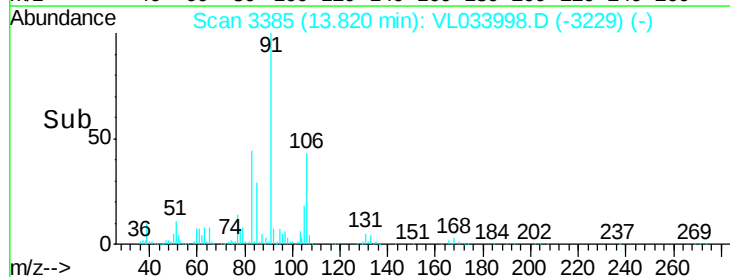
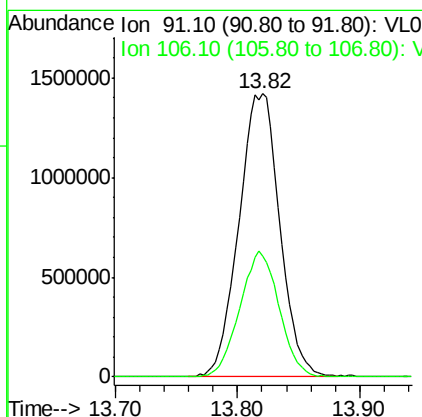
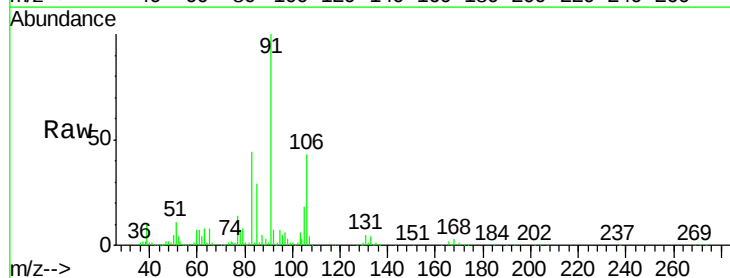
Manual Integrations
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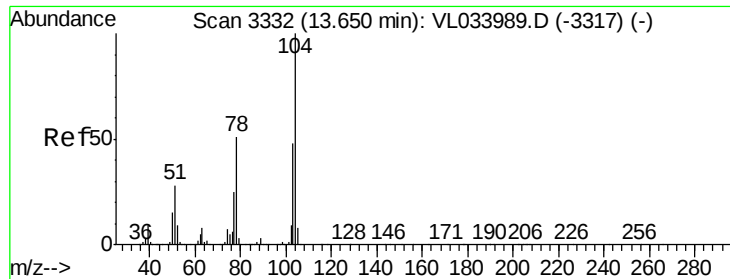
MMDadoda
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#60
o-Xylene
Concen: 10.712 ppbv m
RT: 13.82 min Scan# 3385
Delta R.T. 0.00 min
Lab File: VL033998.D
Acq: 2 Jul 2019 23:57

Tgt Ion: 91 Resp: 3333059
Ion Ratio Lower Upper
91 100
106 42.8 21.9 65.7





#61

Stvrene

Concen: 12.044 ppbv

RT: 13.65 min Scan# 3333

Delta R.T. 0.00 min

Lab File: VL033998.D

Acq: 2 Jul 2019 23:57

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion:104 Resp: 2479958

Ion Ratio Lower Upper

104 100

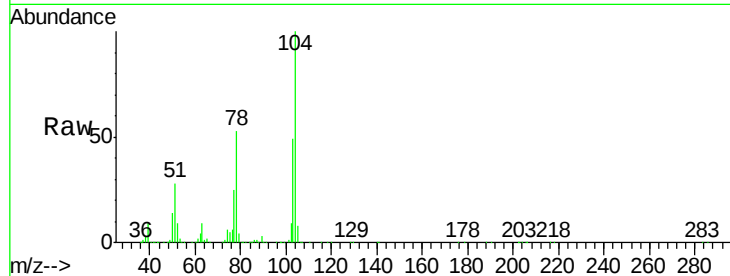
78 54.3 43.9 65.9

103 47.8 38.1 57.1

Manual Integrations
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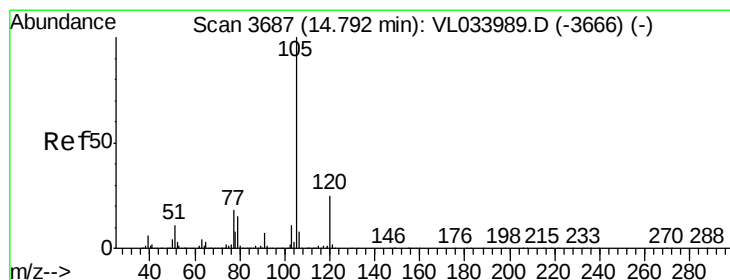
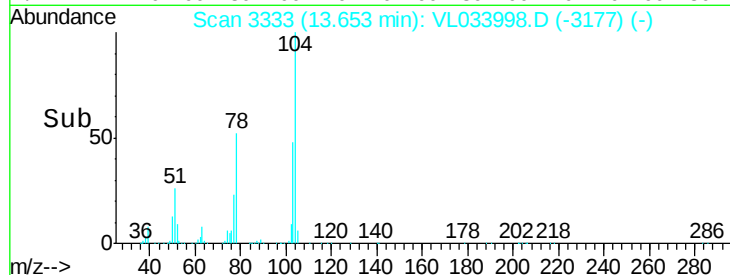
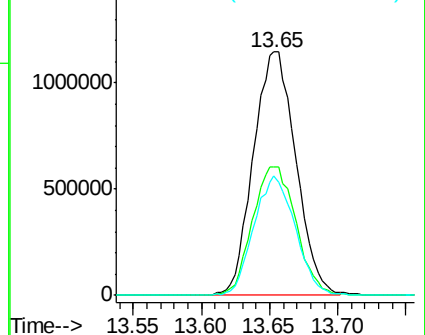
7/3/2019 11:03:37 PM



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: 9.308 ppbv

RT: 14.79 min Scan# 3688

Delta R.T. 0.00 min

Lab File: VL033998.D

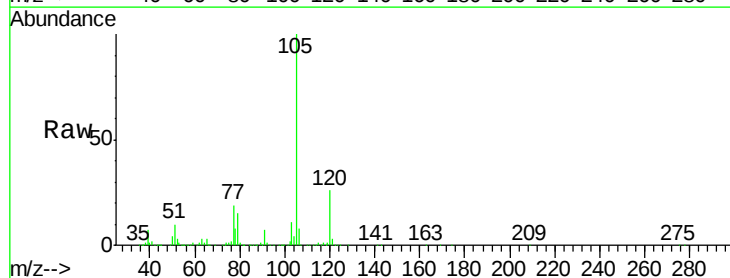
Acq: 2 Jul 2019 23:57

Tgt Ion:105 Resp: 4451876

Ion Ratio Lower Upper

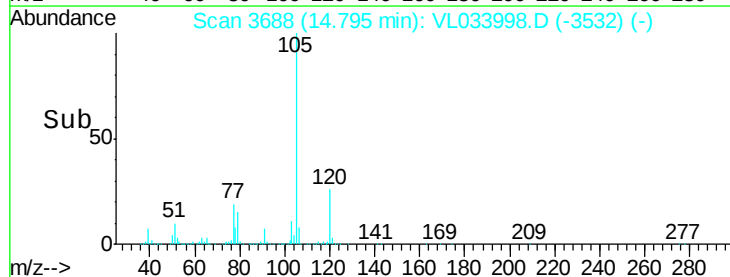
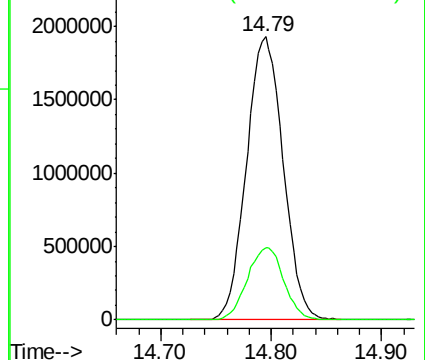
105 100

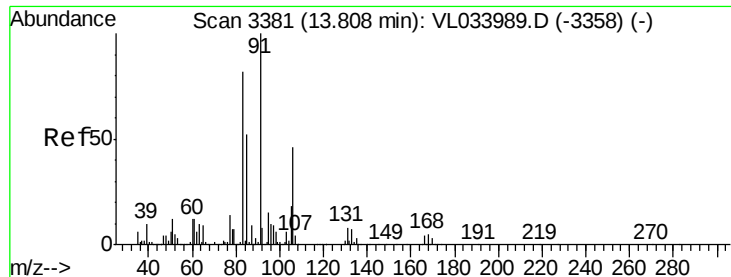
120 25.3 20.4 30.6



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 9.547 ppbv

RT: 13.80 min Scan# 3380

Delta R.T. -0.00 min

Lab File: VL033998.D

Acq: 2 Jul 2019 23:57

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion: 83 Resp: 2299211

Ion Ratio Lower Upper

83 100

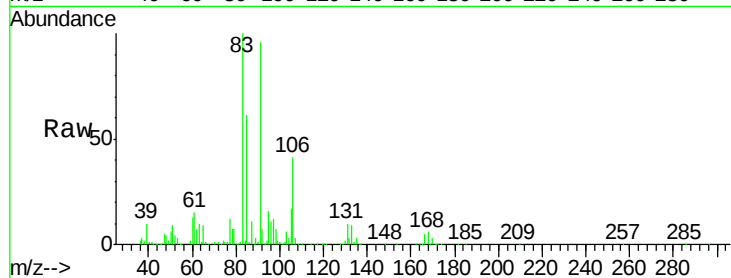
131 10.0 5.0 14.9

85 64.2 32.8 98.3

Manual Integrations
APPROVED

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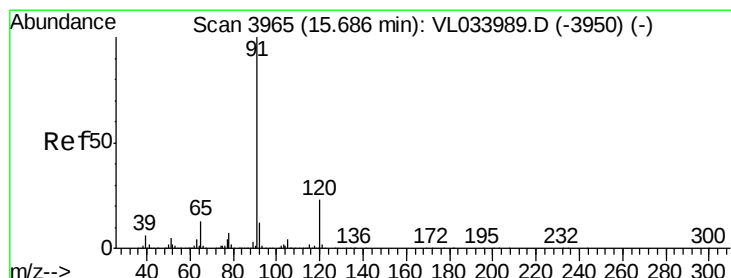
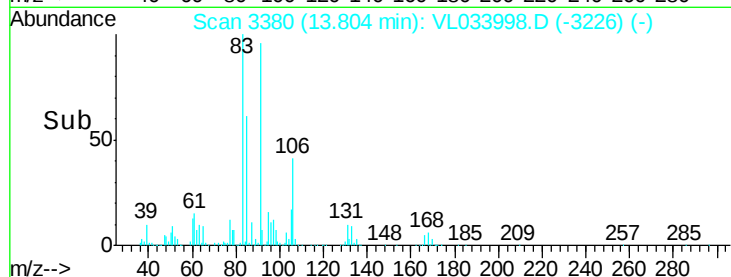
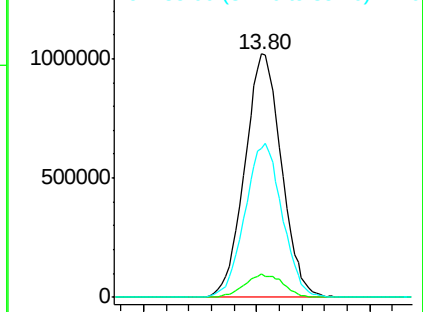
7/3/2019 11:03:37 PM



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 9.368 ppbv

RT: 15.69 min Scan# 3967

Delta R.T. 0.01 min

Lab File: VL033998.D

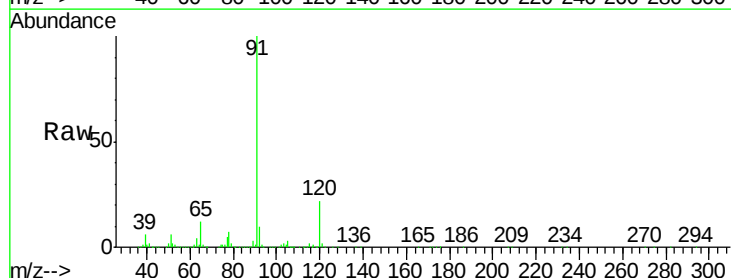
Acq: 2 Jul 2019 23:57

Tgt Ion:120 Resp: 1161903

Ion Ratio Lower Upper

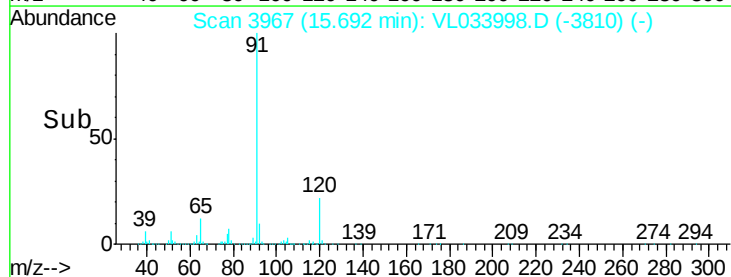
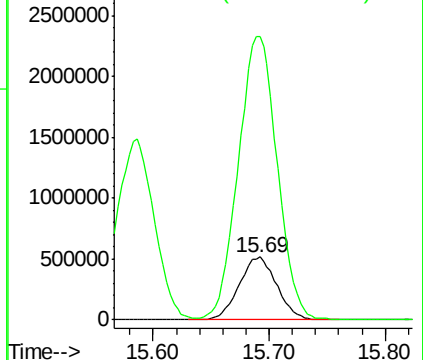
120 100

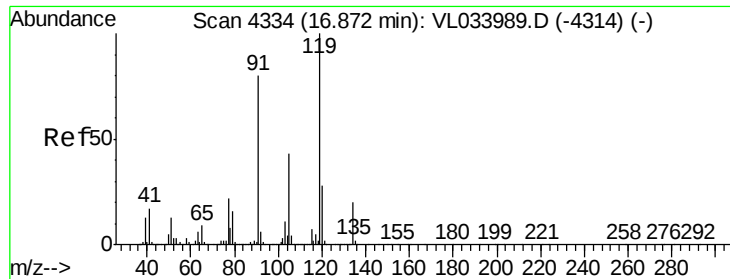
91 467.4 386.6 579.8



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





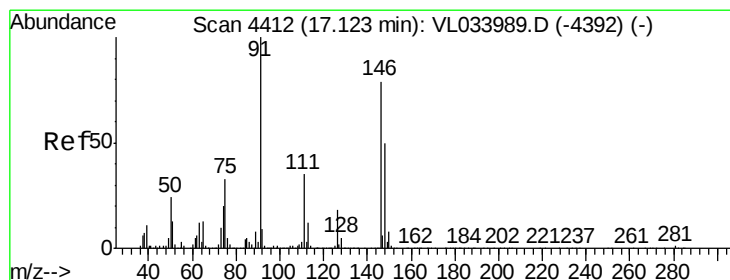
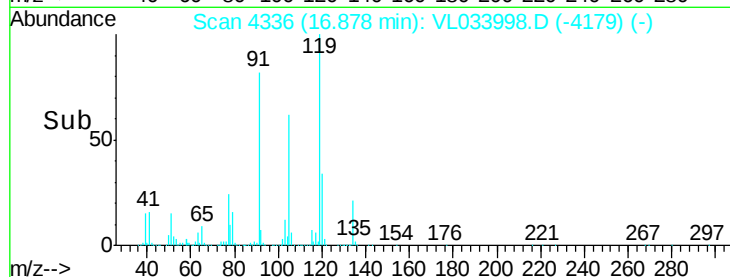
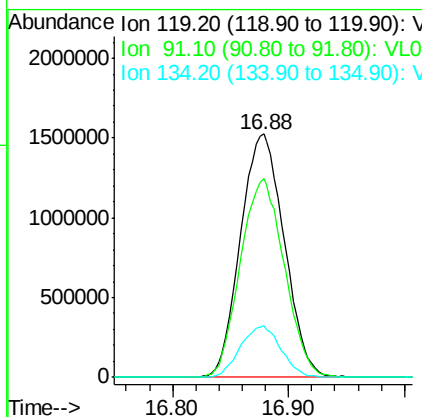
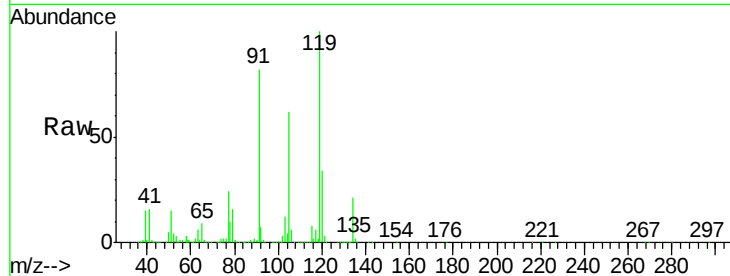
#65
tert-Butylbenzene
Concen: 9.802 ppbv
RT: 16.88 min Scan# 4336
Delta R.T. 0.01 min
Lab File: VL033998.D
Acq: 2 Jul 2019 23:57

Instrument :
MSVOA_L
ClientSampleId :
VL0702ABS01

Tot Ion: 119 Resp: 3986985
Ion Ratio Lower Upper
119 100
91 82.4 67.0 100.6
134 19.9 15.8 23.6

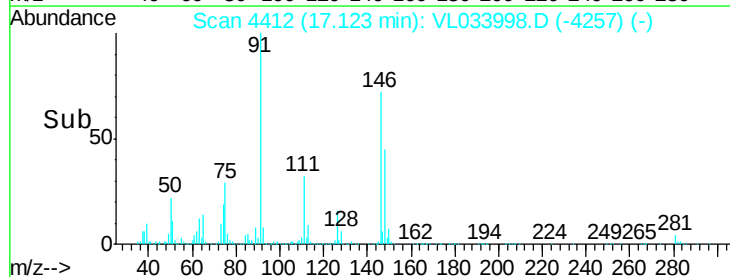
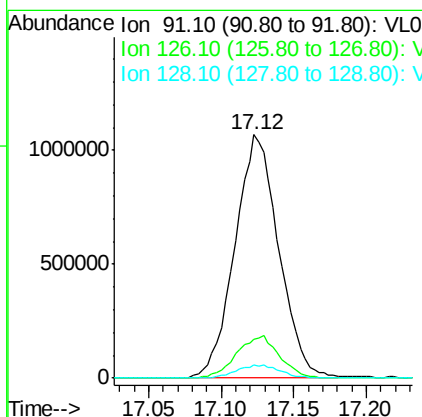
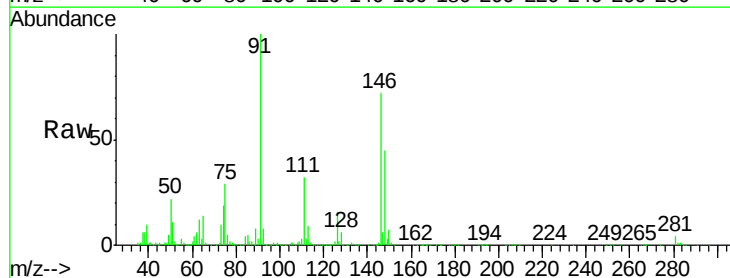
Manual Integrations
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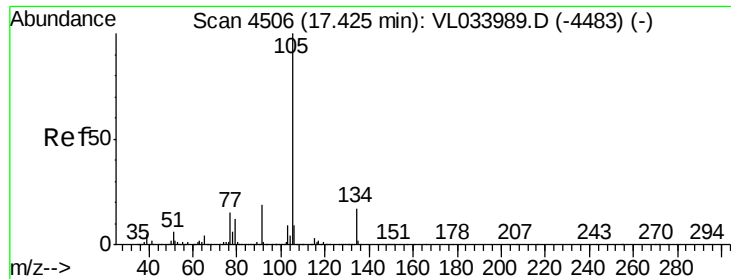
MMDadoda
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#66
Benzyl Chloride
Concen: 10.740 ppbv
RT: 17.12 min Scan# 4412
Delta R.T. -0.00 min
Lab File: VL033998.D
Acq: 2 Jul 2019 23:57

Tgt Ion: 91 Resp: 2235088
Ion Ratio Lower Upper
91 100
126 17.4 13.9 20.9
128 5.5 4.6 7.0





#67

sec-Butylbenzene

Concen: 9.719 ppbv

RT: 17.43 min Scan# 4507

Delta R.T. 0.00 min

Lab File: VL033998.D

Acq: 2 Jul 2019 23:57

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion: 105 Resp: 5548938

Ion Ratio Lower Upper

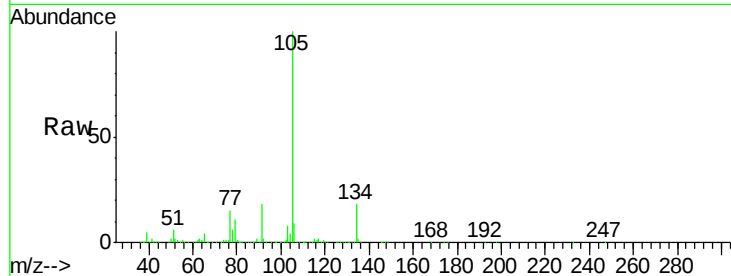
105 100

134 18.5 14.7 22.1

Manual Integrations
APPROVED

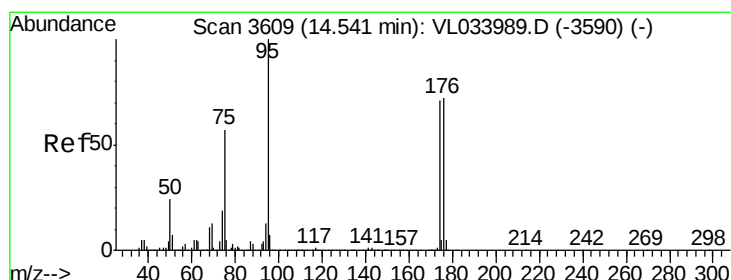
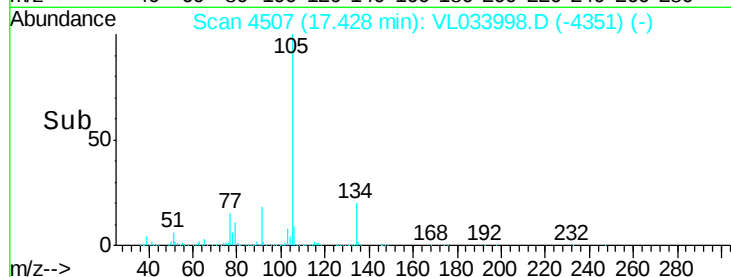
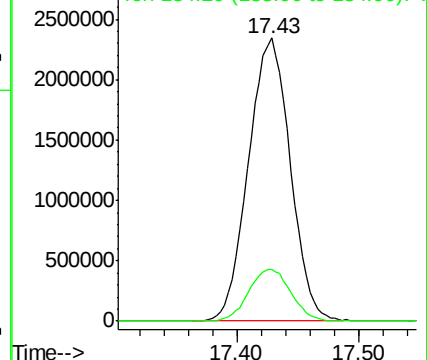
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.319 ppbv

RT: 14.55 min Scan# 3611

Delta R.T. 0.01 min

Lab File: VL033998.D

Acq: 2 Jul 2019 23:57

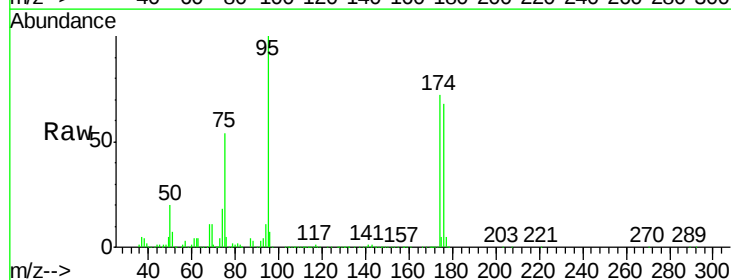
Tgt Ion: 95 Resp: 2270345

Ion Ratio Lower Upper

95 100

174 72.3 60.5 90.7

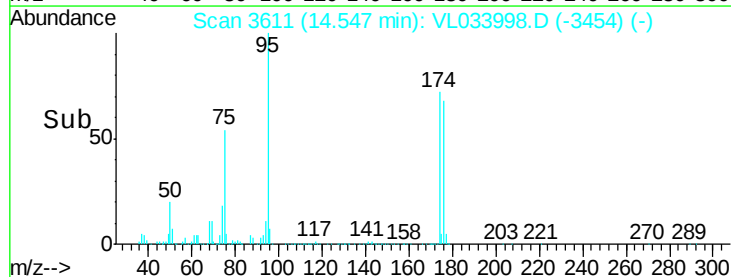
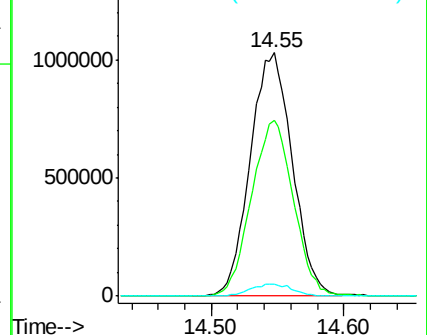
175 5.1 4.0 6.0

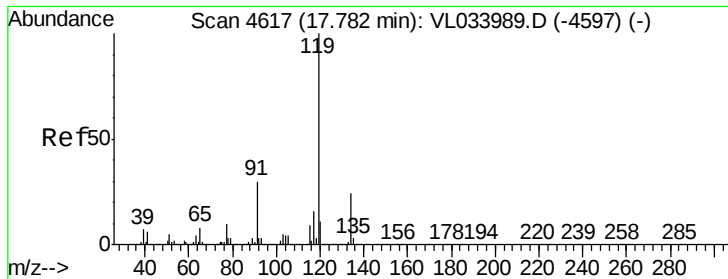


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





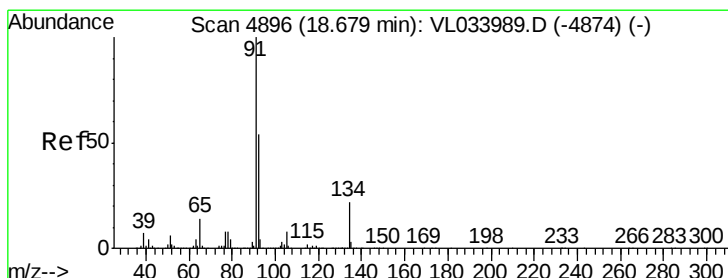
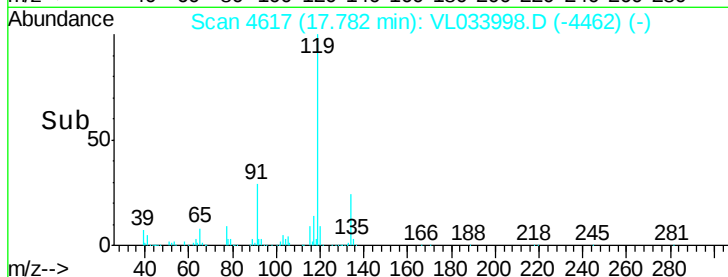
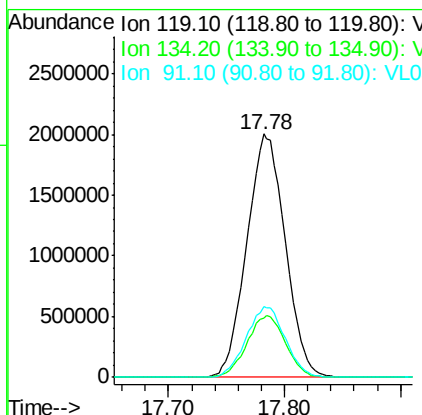
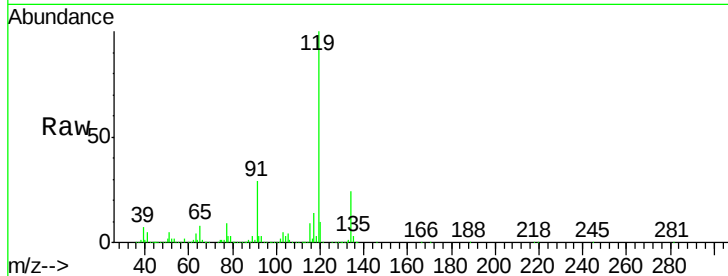
#69
 p-Isopropyltoluene
 Concen: 9.790 ppbv
 RT: 17.78 min Scan# 4617
 Delta R.T. -0.00 min
 Lab File: VL033998.D
 Acq: 2 Jul 2019 23:57

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0702ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.5	20.1	30.1
91	29.5	23.6	35.4

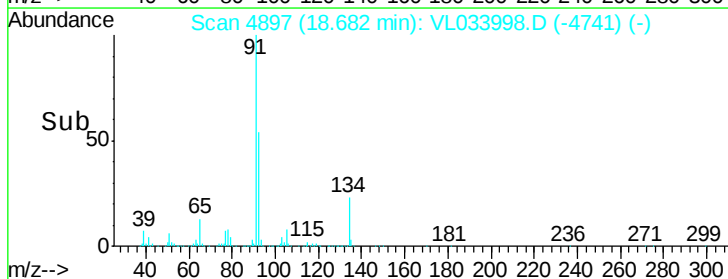
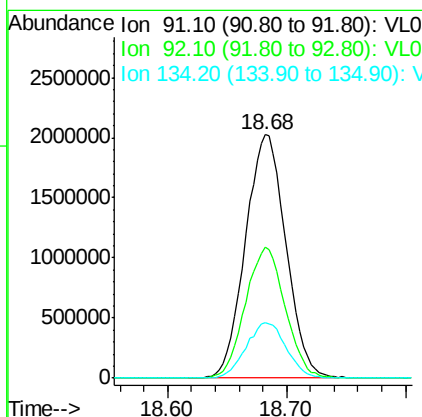
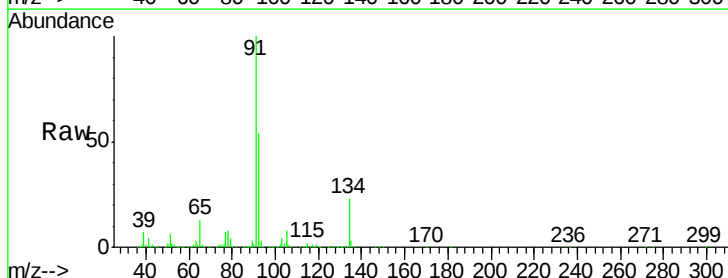
Manual Integrations
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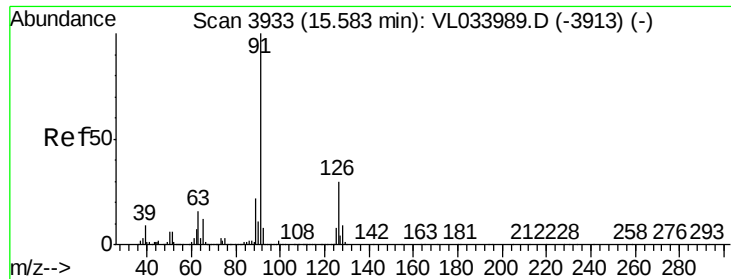
MMDadoda
 7/3/2019 11:03:37 PM



#70
 n-Butylbenzene
 Concen: 9.628 ppbv
 RT: 18.68 min Scan# 4897
 Delta R.T. 0.00 min
 Lab File: VL033998.D
 Acq: 2 Jul 2019 23:57

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.9	42.0	63.0
134	22.7	17.9	26.9





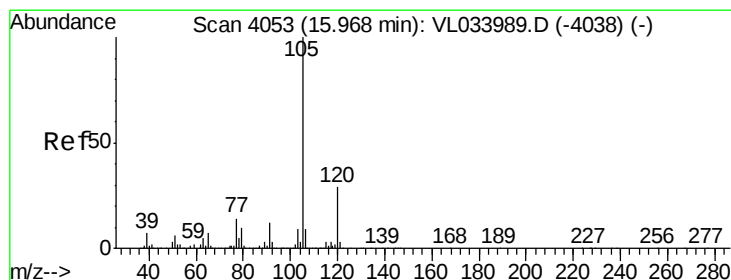
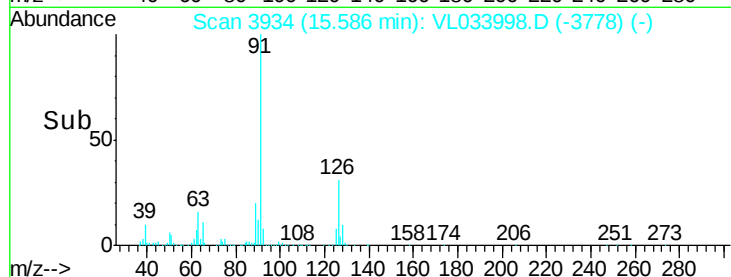
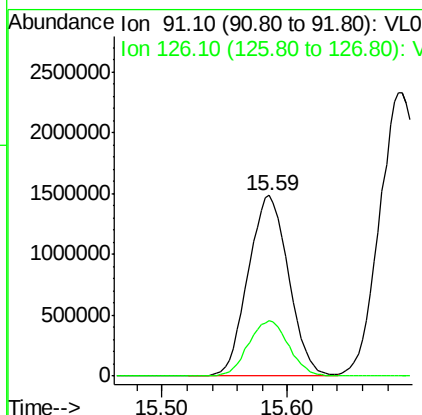
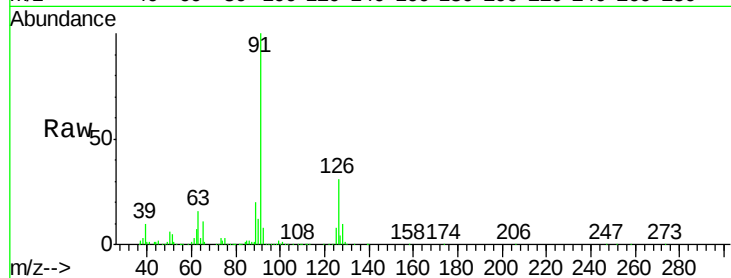
#71
2-Chlorotoluene
Concen: 9.515 ppbv
RT: 15.59 min Scan# 3934
Delta R.T. 0.00 min
Lab File: VL033998.D
Acq: 2 Jul 2019 23:57

Instrument :
MSVOA_L
ClientSampleId :
VL0702ABS01

Tot Ion: 91 Resp: 3330658
Ion Ratio Lower Upper
91 100
126 30.5 12.3 49.3

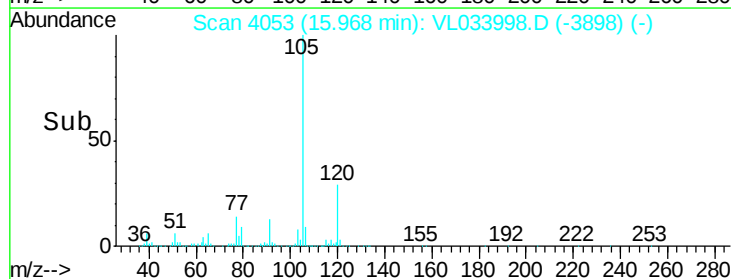
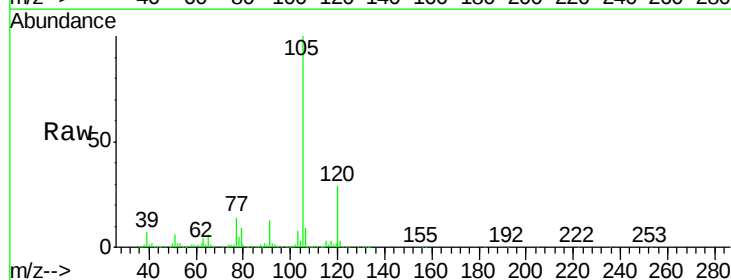
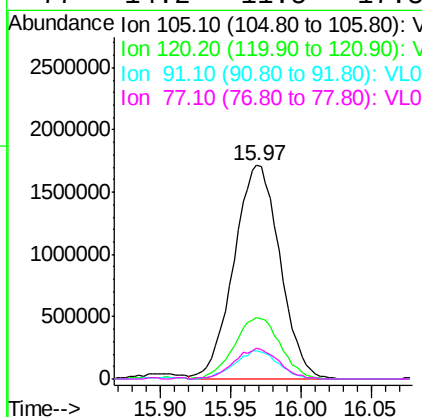
Manual Integrations
APPROVED

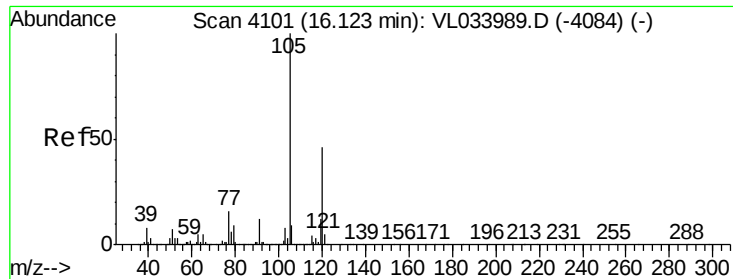
MMDadoda
7/3/2019 11:03:37 PM



#72
4-Ethyltoluene
Concen: 9.764 ppbv
RT: 15.97 min Scan# 4053
Delta R.T. -0.00 min
Lab File: VL033998.D
Acq: 2 Jul 2019 23:57

Tgt Ion:105 Resp: 3901297
Ion Ratio Lower Upper
105 100
120 29.1 24.1 36.1
91 12.8 10.6 16.0
77 14.2 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 10.046 ppbv

RT: 16.13 min Scan# 4102

Delta R.T. 0.00 min

Lab File: VL033998.D

Acq: 2 Jul 2019 23:57

Instrument :

MSVOA_L

ClientSampleId :

VL0702ABS01

Tot Ion:105 Resp: 3734875

Ion Ratio Lower Upper

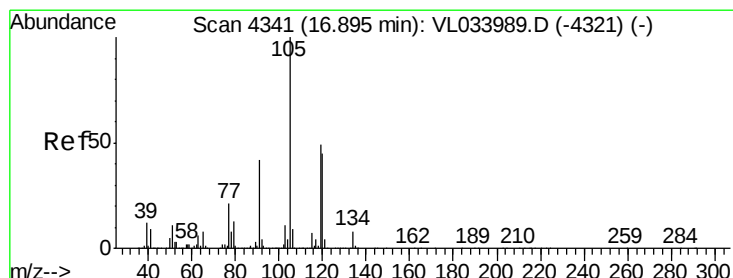
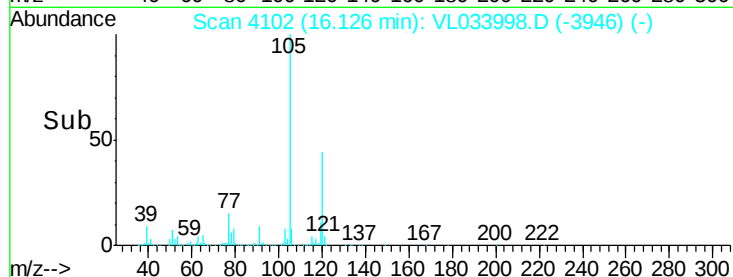
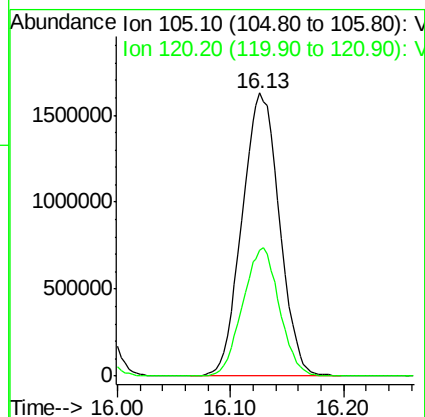
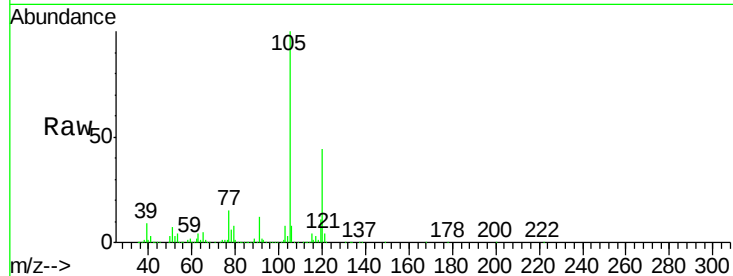
105 100

120 44.4 36.4 54.6

Manual Integrations
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#74

1,2,4-Trimethylbenzene

Concen: 9.410 ppbv

RT: 16.89 min Scan# 4341

Delta R.T. -0.00 min

Lab File: VL033998.D

Acq: 2 Jul 2019 23:57

Tgt Ion:105 Resp: 3874943

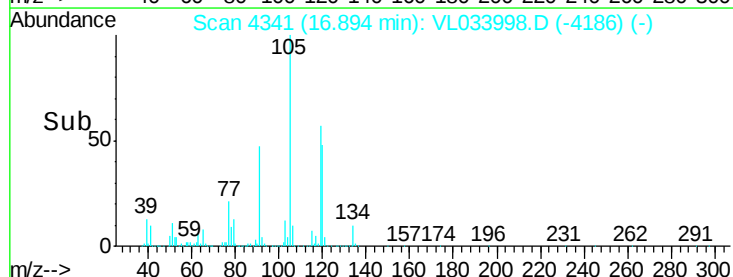
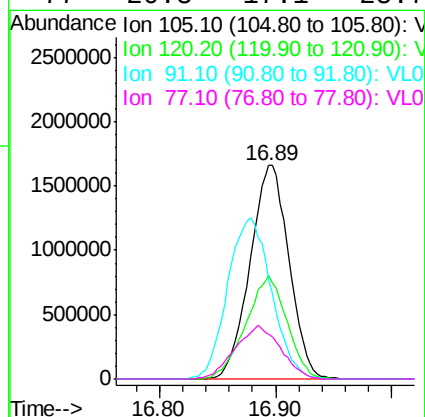
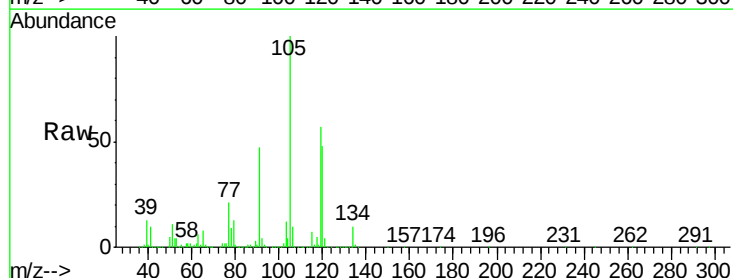
Ion Ratio Lower Upper

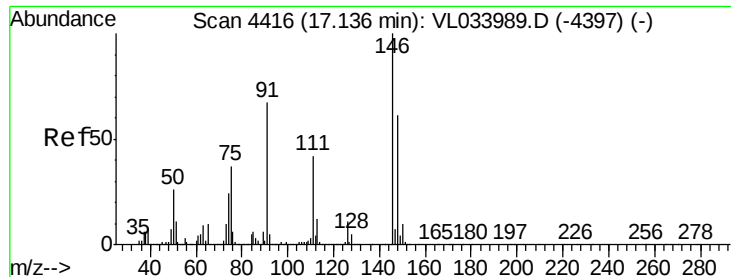
105 100

120 48.3 36.2 54.2

91 46.6 34.3 51.5

77 20.8 17.1 25.7





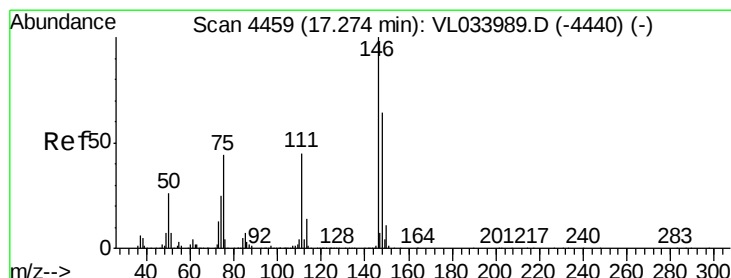
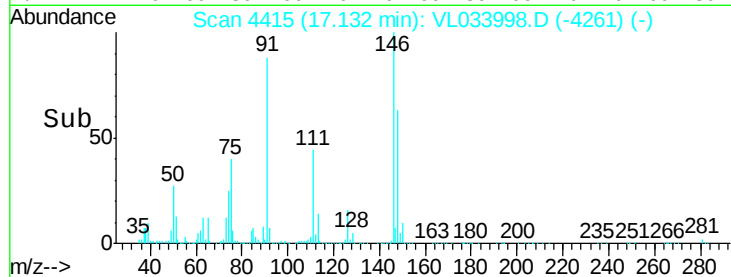
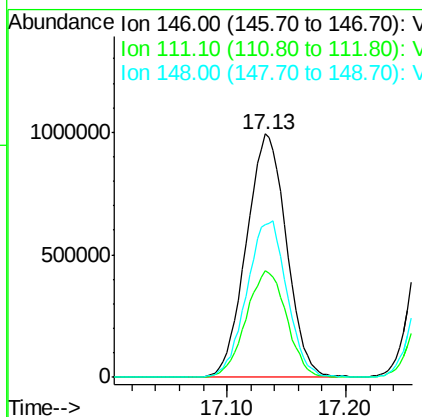
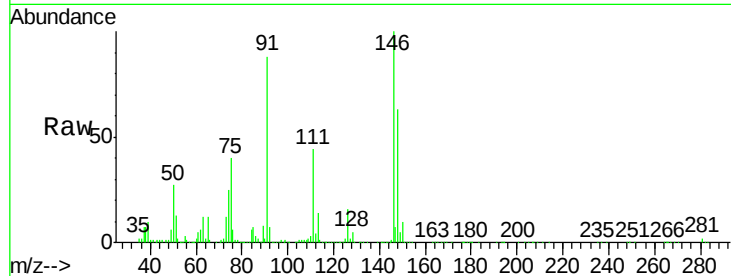
#75
 1,3-Dichlorobenzene
 Concen: 8.846 ppbv
 RT: 17.13 min Scan# 4415
 Delta R.T. -0.00 min
 Lab File: VL033998.D
 Acq: 2 Jul 2019 23:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0702ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.4	22.3	66.9
148	64.5	32.0	96.2

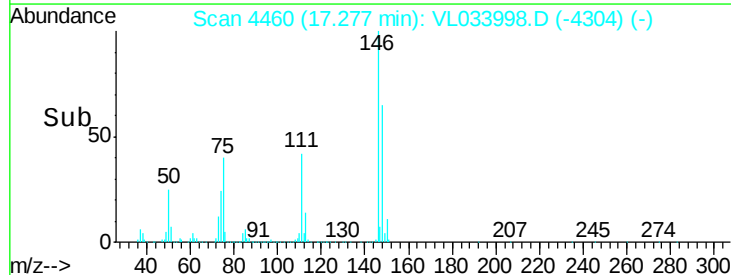
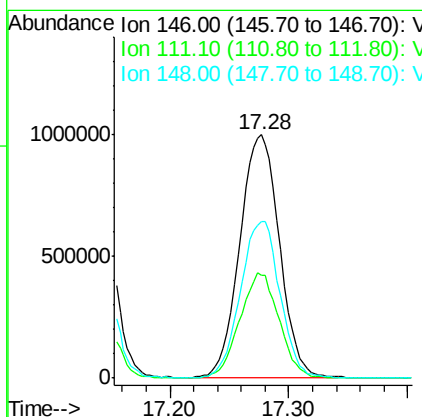
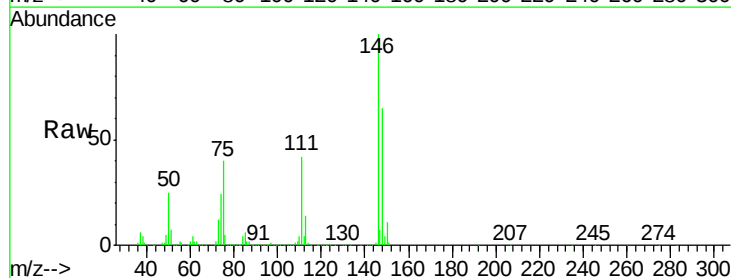
Manual Integrations
 APPROVED

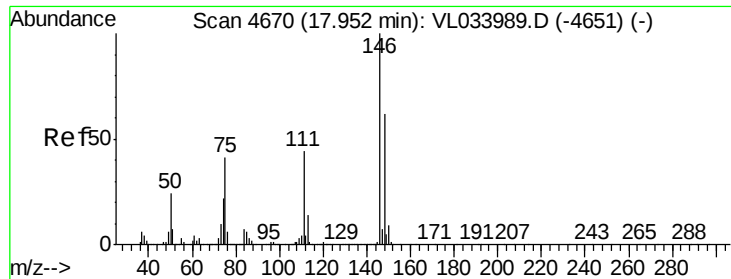
MMDadoda
 7/3/2019 11:03:37 PM



#76
 1,4-Dichlorobenzene
 Concen: 9.325 ppbv
 RT: 17.28 min Scan# 4460
 Delta R.T. 0.00 min
 Lab File: VL033998.D
 Acq: 2 Jul 2019 23:57

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.9	21.9	65.5
148	64.5	32.5	97.5





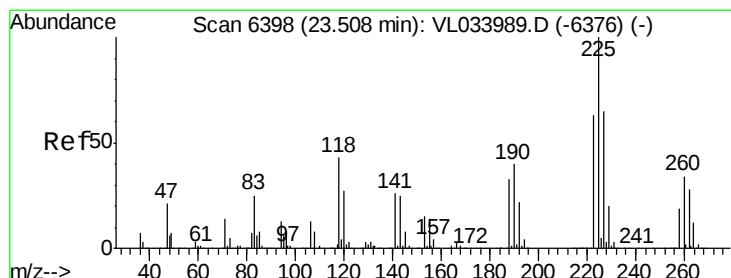
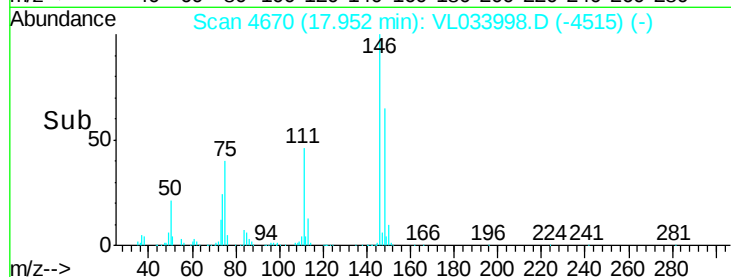
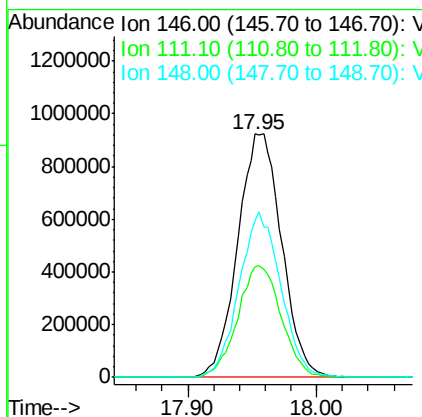
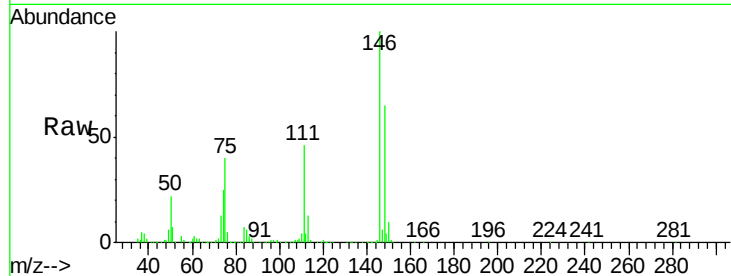
#77
 1,2-Dichlorobenzene
 Concen: 9.044 ppbv
 RT: 17.95 min Scan# 4670
 Delta R.T. -0.00 min
 Lab File: VL033998.D
 Acq: 2 Jul 2019 23:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0702ABS01

Tot Ion:146 Resp: 2190656
 Ion Ratio Lower Upper
 146 100
 111 45.7 22.7 68.1
 148 64.8 32.1 96.3

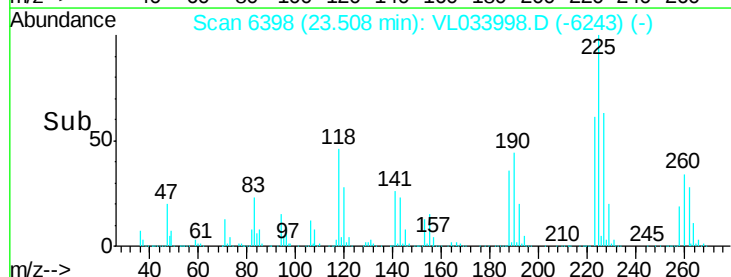
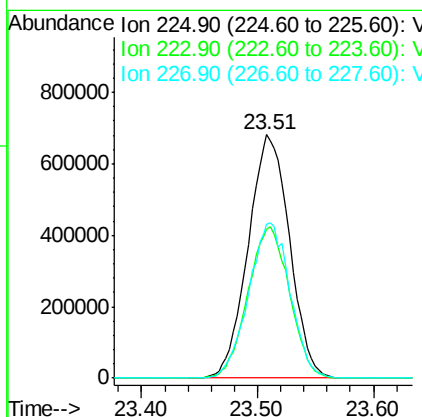
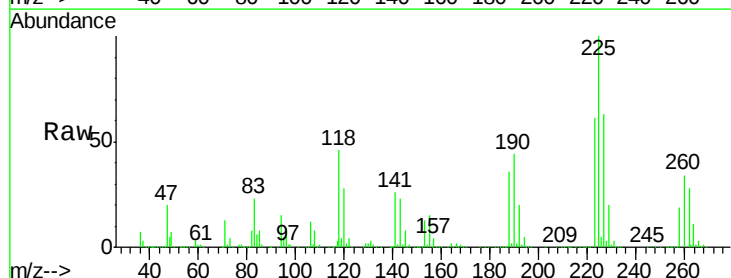
Manual Integrations
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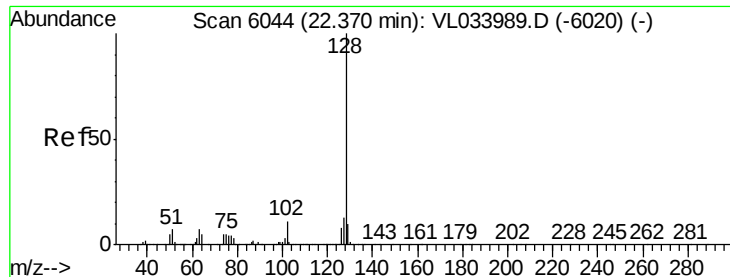
MMDadoda
 7/3/2019 11:03:37 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.187 ppbv
 RT: 23.51 min Scan# 6398
 Delta R.T. -0.00 min
 Lab File: VL033998.D
 Acq: 2 Jul 2019 23:57

Tgt Ion:225 Resp: 1687394
 Ion Ratio Lower Upper
 225 100
 223 62.5 51.5 77.3
 227 64.0 52.1 78.1





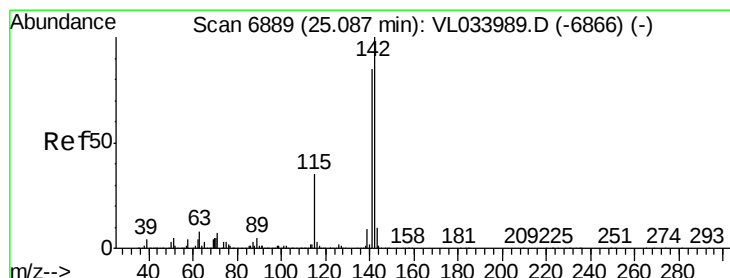
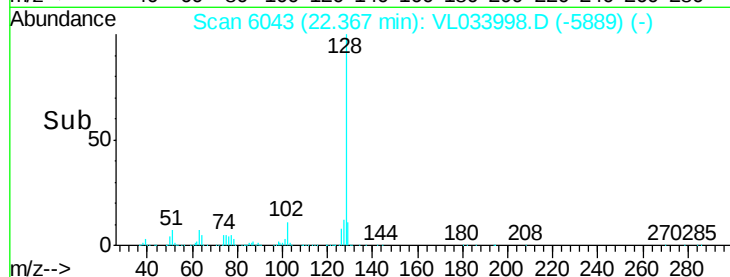
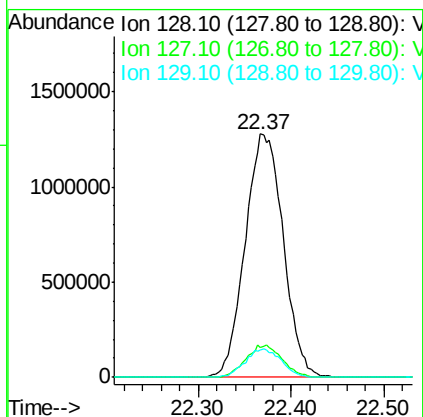
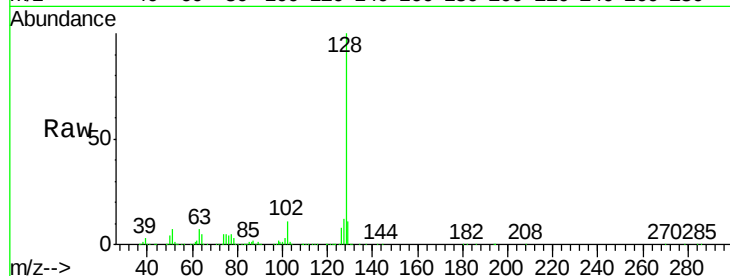
#79
Naphthalene
Concen: 10.558 ppbv
RT: 22.37 min Scan# 6043
Delta R.T. -0.00 min
Lab File: VL033998.D
Acq: 2 Jul 2019 23:57

Instrument :
MSVOA_L
ClientSampleId :
VL0702ABS01

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.1	10.6	15.8
129	11.4	8.3	12.5

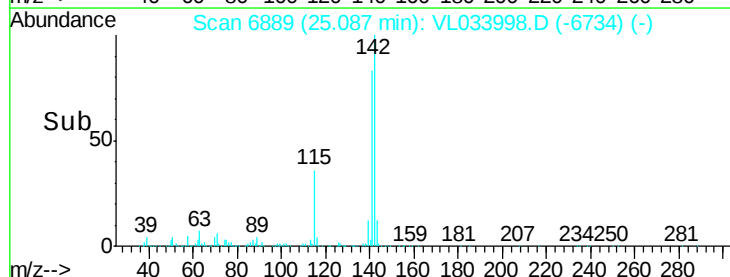
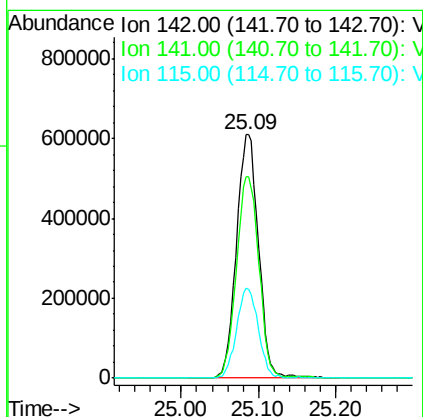
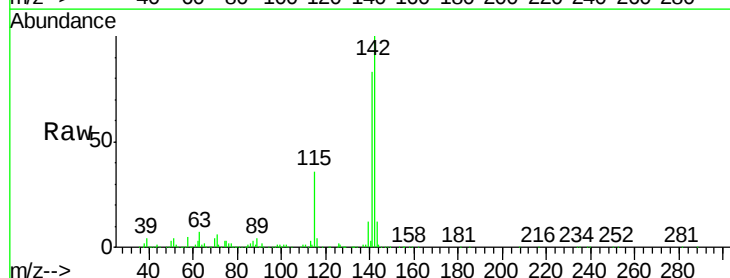
Manual Integrations
APPROVED

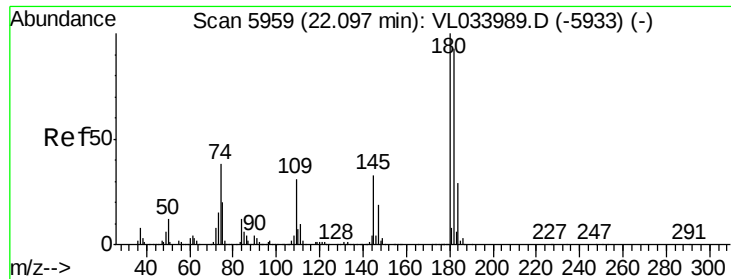
MMDadoda
7/3/2019 11:03:37 PM



#80
Naphthalene, 2-methyl-
Concen: 9.431 ppbv
RT: 25.09 min Scan# 6889
Delta R.T. -0.00 min
Lab File: VL033998.D
Acq: 2 Jul 2019 23:57

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.0	68.2	102.2
115	36.5	29.9	44.9





#81
 1,2,4-Trichlorobenzene
 Concen: 9.832 ppbv
 RT: 22.10 min Scan# 5959
 Delta R.T. -0.00 min
 Lab File: VL033998.D
 Acq: 2 Jul 2019 23:57

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0702ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.5	76.6	114.8
184	30.9	24.6	36.8

Manual Integrations
 APPROVED

MMDadoda
 7/3/2019 11:03:37 PM

