

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL113018\
 Data File : VL032871.D
 Acq On : 1 Dec 2018 5:25
 Operator : SY/AP
 Sample : VL1130ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1130ABS01

Manual Integrations
 APPROVED

MMDadoda
 12/3/2018 4:17:19 PM

Quant Time: Dec 01 05:57:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 1
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1343265	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3396300	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3558698m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2536080	9.53	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.08	85	1681171	8.707 ppbv	97
3) Chlorodifluoromethane	3.02	51	1029860	9.671 ppbv	100
4) Chloromethane	3.17	50	566800	9.598 ppbv	100
5) Vinyl Chloride	3.30	62	578377	9.243 ppbv	97
6) Bromomethane	3.52	94	388160	10.141 ppbv	90
7) Chloroethane	3.61	64	226703	10.053 ppbv	94
8) Dichlorotetrafluoroethane	3.22	85	1434059	9.425 ppbv	97
9) Propene	3.04	41	438835	10.297 ppbv	100
10) Heptane	8.26	43	1776256	10.917 ppbv	99
11) Trichlorofluoromethane	4.01	101	2171689	11.935 ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1423741	9.579 ppbv	97
13) Ethanol	3.65	45	105931	7.589 ppbv	100
14) Bromoethene	3.79	108	499962	10.139 ppbv	98
15) Acetone	3.91	43	1435936	11.706 ppbv	99
16) 1,3-Butadiene	3.37	39	487880	10.270 ppbv	93
17) tert-Butyl alcohol	4.36	59	436771	11.352 ppbv	100
18) 1,1-Dichloroethene	4.36	96	767460	10.500 ppbv	97
19) Isopropyl Alcohol	4.03	45	994240	12.166 ppbv	100
20) Methylene Chloride	4.42	84	555596	8.749 ppbv	99
21) Allyl Chloride	4.48	41	1021055	9.905 ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	747795	10.478 ppbv	95
23) Vinyl Acetate	5.16	43	2459709	11.000 ppbv	99
24) 1,1-Dichloroethane	5.10	63	1800287	10.127 ppbv	99
25) Ethyl Acetate	5.78	43	3065074	10.721 ppbv	100
26) Hexane	5.79	57	1431920	11.251 ppbv	99
27) Carbon Disulfide	4.62	76	1924762	11.927 ppbv	100
28) Methyl tert-Butyl Ether	5.12	73	2310200	11.383 ppbv	100
29) Chloroform	5.86	83	2370018	10.448 ppbv	96
30) Cyclohexane	7.26	84	1231973	11.067 ppbv	96
31) cis-1,2-Dichloroethene	5.65	61	1464155	11.442 ppbv	99
32) 1,1,1-Trichloroethane	6.63	97	2419282	9.730 ppbv	99
34) 2-Butanone	5.34	43	1893767	10.751 ppbv	99
35) Carbon Tetrachloride	7.14	117	2584182	9.465 ppbv	100
36) Benzene	7.02	78	2917615	10.788 ppbv	99
37) 1,2-Dichloroethane	6.42	62	1790386	9.834 ppbv	99
38) Trichloroethene	7.97	130	1195294	10.921 ppbv	98
39) 1,2-Dichloropropane	7.75	63	1076457	10.447 ppbv	98
40) 1,4-Dioxane	7.97	88	378651	10.288 ppbv	# 1
41) Tetrahydrofuran	6.16	42	1136324	11.246 ppbv	99
42) Bromodichloromethane	7.93	83	2504391	10.148 ppbv	99
43) Methyl Methacrylate	8.15	69	1140413	11.295 ppbv	98

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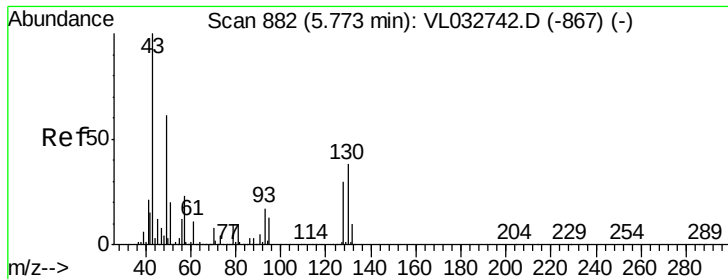
Manual Integrations
 APPROVED

MMDadoda
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Quant Time: Dec 01 05:57:03 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 1
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	4754221	10.519	ppbv	99
45) t-1,3-Dichloropropene	9.43	75	1706704	12.597	ppbv	99
46) cis-1,3-Dichloropropene	8.85	75	1804344	11.023	ppbv	98
47) 1,1,2-Trichloroethane	9.63	97	1278890	10.496	ppbv	98
48) Dibromochloromethane	10.46	129	2252362	10.876	ppbv	100
49) Bromoform	13.21	173	1905746	11.143	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	2782414	10.113	ppbv	100
51) 2-Hexanone	10.28	43	2098874	11.841	ppbv	100
52) Tetrachloroethene	11.39	164	1056973	11.235	ppbv	97
53) Toluene	9.96	91	3397440	12.041	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1906634	11.070	ppbv	96
56) 1,1,1,2-Tetrachloroethane	12.29	131	1592490	9.594	ppbv	99
57) Chlorobenzene	12.31	112	2619016	9.614	ppbv	97
58) Ethyl Benzene	12.88	91	4651424	10.861	ppbv	96
59) m/p-Xylene	13.16	91	7685846m	20.159	ppbv	
60) o-Xylene	13.86	91	3737863	9.750	ppbv	99
61) Styrene	13.70	104	2841720	11.387	ppbv	98
62) Isopropylbenzene	14.84	105	5400726	10.423	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	2590112	8.667	ppbv	100
64) n-propylbenzene	15.74	120	1374710	10.086	ppbv	95
65) tert-Butylbenzene	16.92	119	4762290	10.253	ppbv	97
66) Benzyl Chloride	17.17	91	2667598	10.388	ppbv	99
67) sec-Butylbenzene	17.47	105	6663686	9.954	ppbv	100
69) p-Isopropyltoluene	17.83	119	5425205	10.193	ppbv	99
70) n-Butylbenzene	18.72	91	5328026	9.858	ppbv	99
71) 2-Chlorotoluene	15.63	91	3934348	10.181	ppbv	98
72) 4-Ethyltoluene	16.02	105	4336172	10.319	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	4121069	10.031	ppbv	97
74) 1,2,4-Trimethylbenzene	16.94	105	4172329	9.490	ppbv	95
75) 1,3-Dichlorobenzene	17.18	146	2338917	9.275	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2285814	9.704	ppbv	100
77) 1,2-Dichlorobenzene	18.00	146	2278012	9.764	ppbv	98
78) Hexachloro-1,3-Butadiene	23.55	225	1094633	8.694	ppbv	99
79) Naphthalene	22.42	128	2922970	10.121	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	725574	10.031	ppbv	98
81) 1,2,4-Trichlorobenzene	22.15	180	1463594	10.092	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.00 min

Lab File: VL032871.D

Acq: 1 Dec 2018 5:25

Instrument :

MSVOA_L

ClientSampleId :

VL1130ABS01

Tot Ion: 49 Resp: 1343265

Ion Ratio Lower Upper

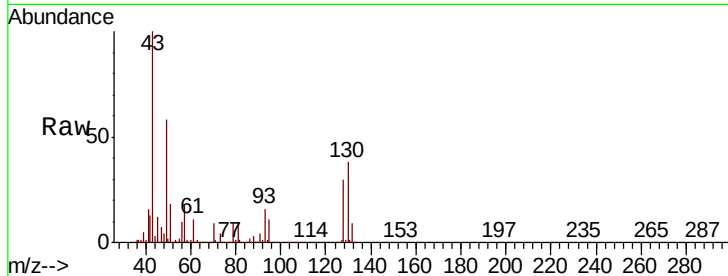
49 100

128 52.9 24.9 74.6

130 66.8 31.4 94.2

Manual Integrations
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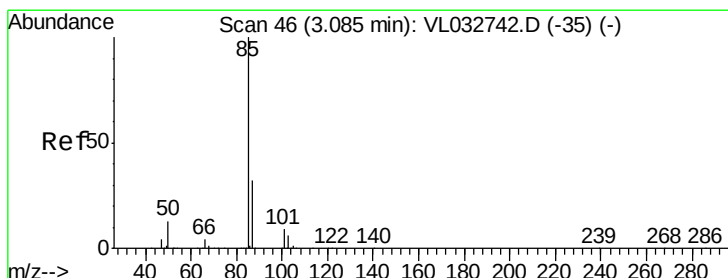
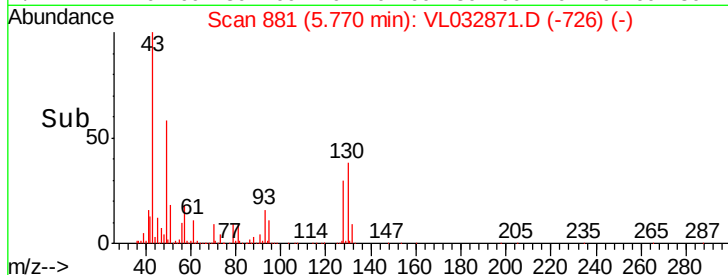
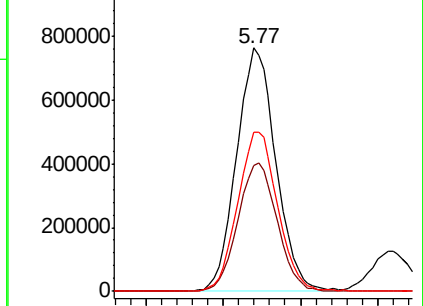
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 8.707 ppbv

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032871.D

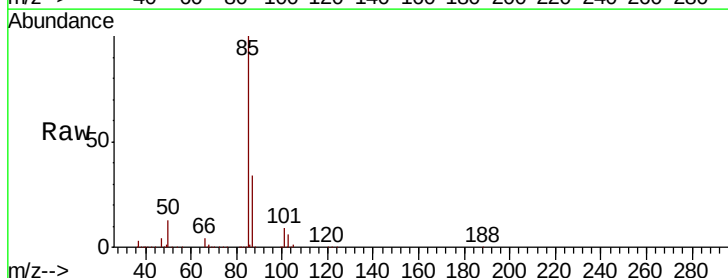
Acq: 1 Dec 2018 5:25

Tgt Ion: 85 Resp: 1681171

Ion Ratio Lower Upper

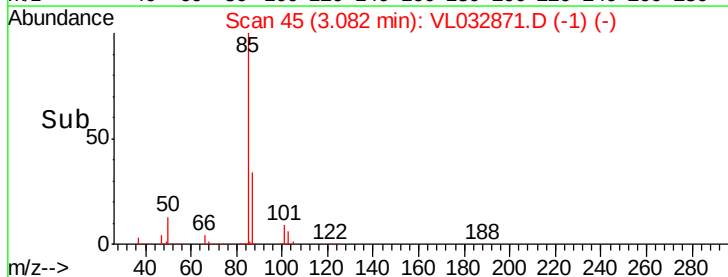
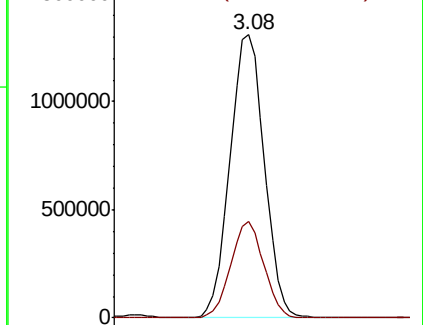
85 100

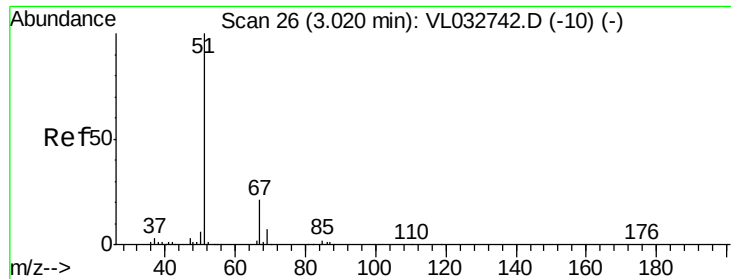
87 34.3 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 9.671 ppbv

RT: 3.02 min Scan# 25

Delta R.T. -0.00 min

Lab File: VL032871.D

Acq: 1 Dec 2018 5:25

Tot Ion: 51 Resp: 1029860

Ion Ratio Lower Upper

51 100

67 20.0 16.1 24.1

Instrument :

MSVOA_L

ClientSampleId :

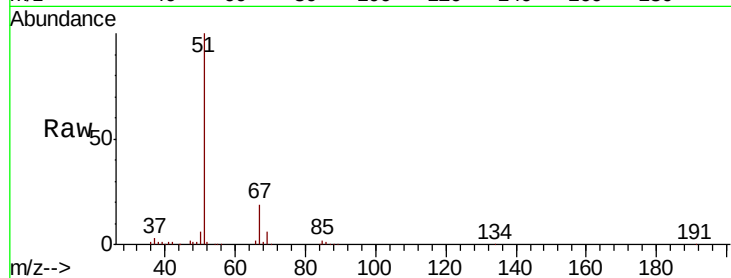
VL1130ABS01

Manual Integrations

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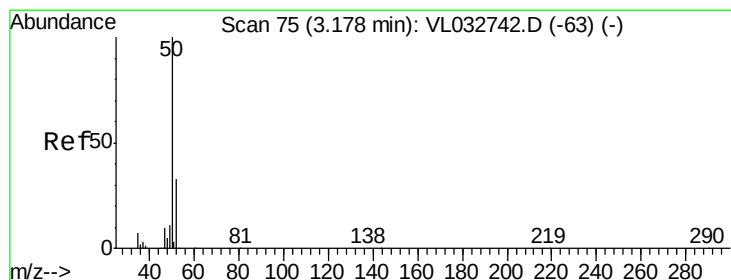
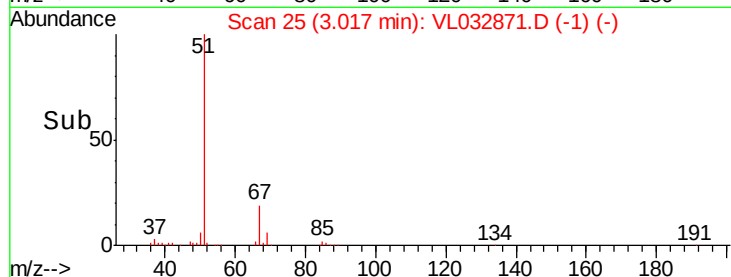
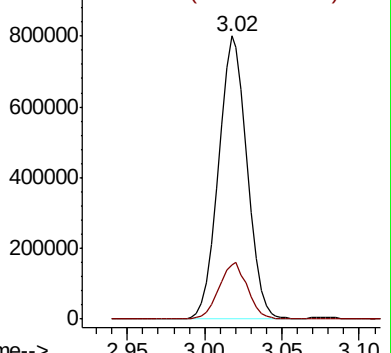
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.598 ppbv

RT: 3.17 min Scan# 74

Delta R.T. -0.00 min

Lab File: VL032871.D

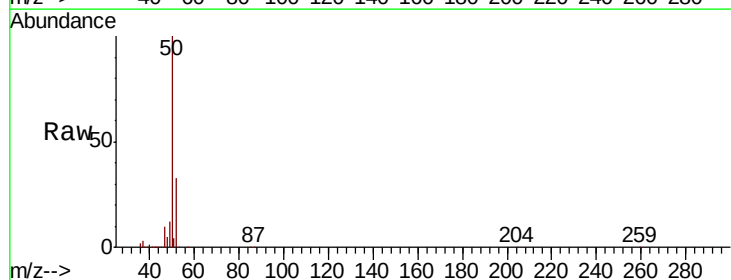
Acq: 1 Dec 2018 5:25

Tgt Ion: 50 Resp: 566800

Ion Ratio Lower Upper

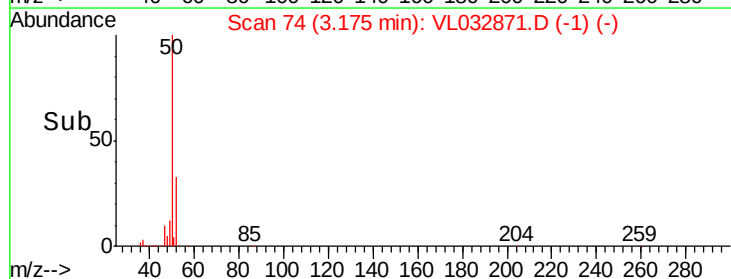
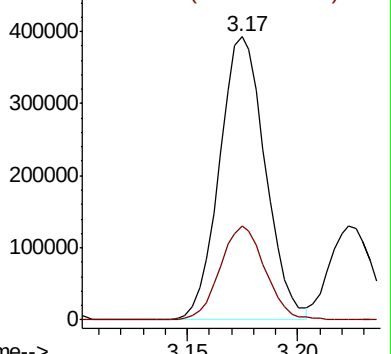
50 100

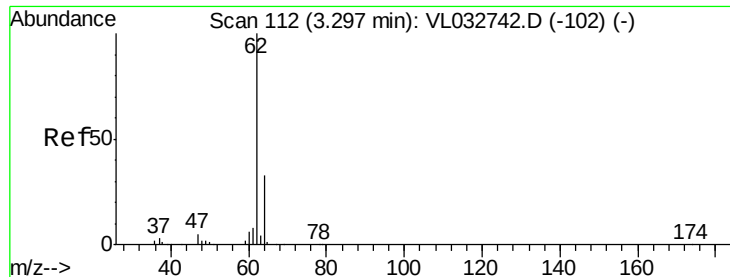
52 33.3 26.6 40.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.243 ppbv

RT: 3.30 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL032871.D

Acq: 1 Dec 2018 5:25

Instrument :

MSVOA_L

ClientSampleId :

VL1130ABS01

Tot Ion: 62 Resp: 578377

Ion Ratio Lower Upper

62 100

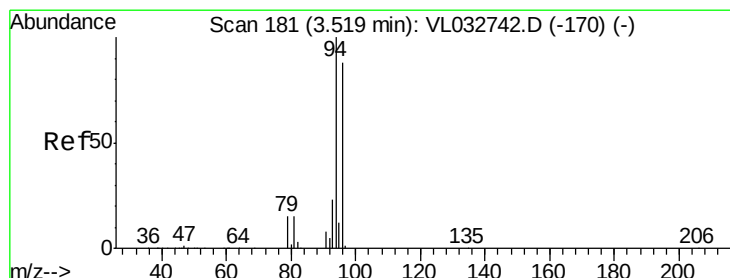
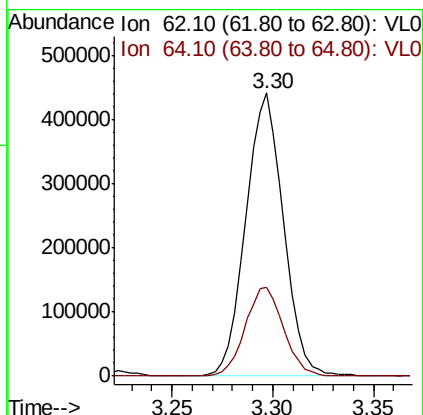
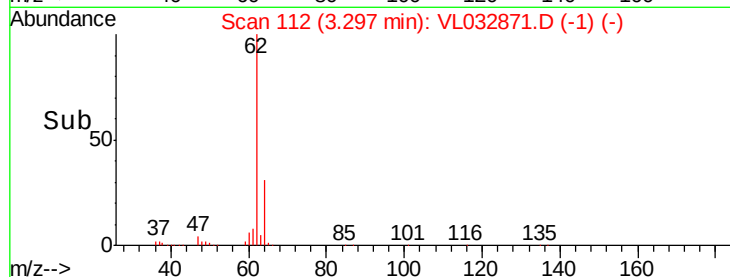
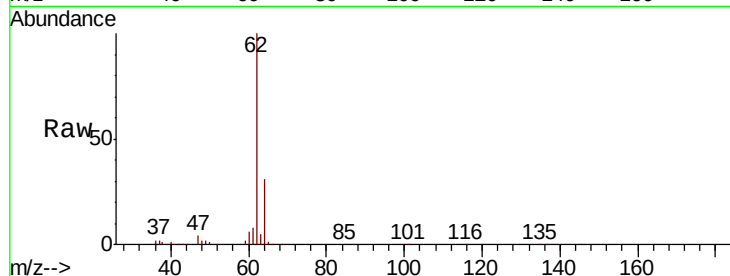
64 31.2 26.2 39.4

Manual Integrations

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#6

Bromomethane

Concen: 10.141 ppbv

RT: 3.52 min Scan# 181

Delta R.T. 0.00 min

Lab File: VL032871.D

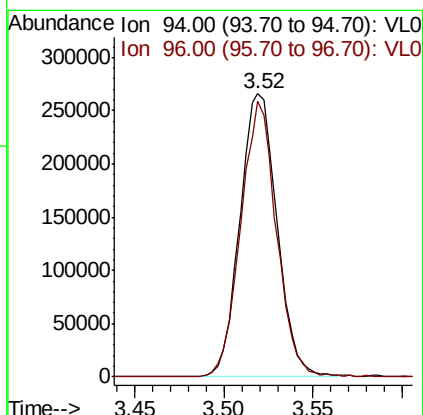
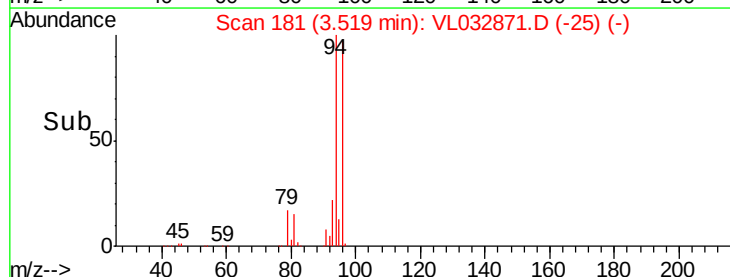
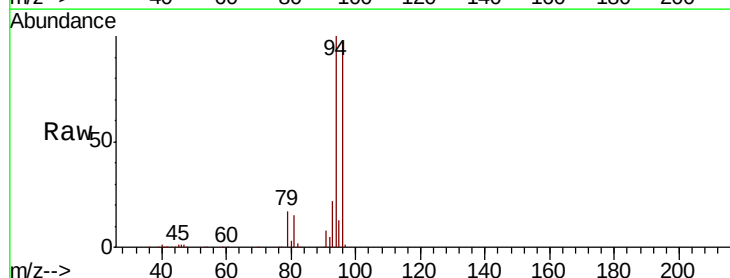
Acq: 1 Dec 2018 5:25

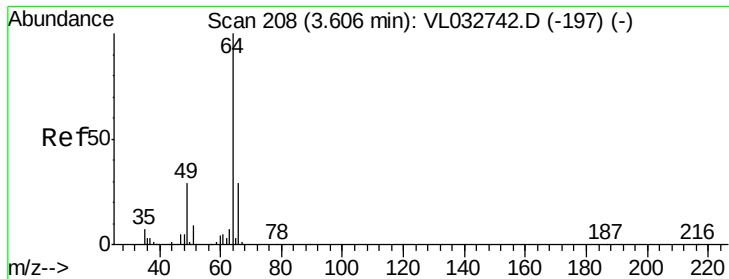
Tgt Ion: 94 Resp: 388160

Ion Ratio Lower Upper

94 100

96 97.2 70.2 105.2





#7

Chloroethane

Concen: 10.053 ppbv

RT: 3.61 min Scan# 208

Delta R.T. 0.00 min

Lab File: VL032871.D

Acq: 1 Dec 2018 5:25

Instrument :

MSVOA_L

ClientSampleId :

VL1130ABS01

Tot Ion: 64 Resp: 226703

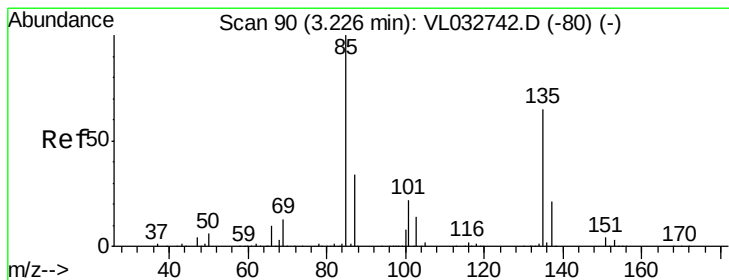
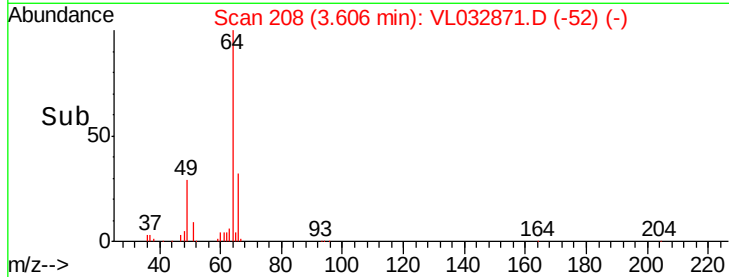
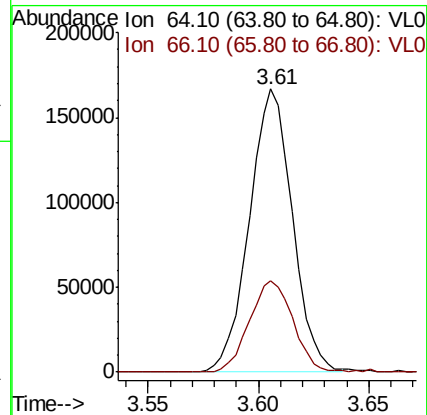
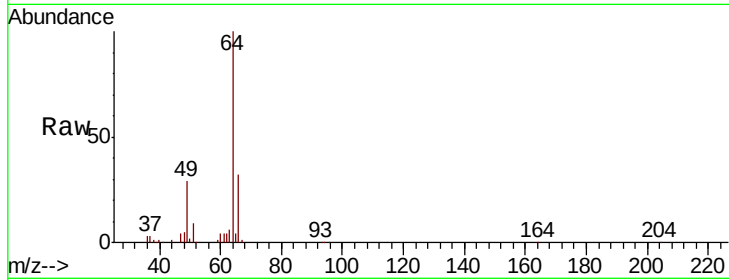
Ion Ratio Lower Upper

64 100

66 32.3 23.2 34.8

Manual Integrations
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#8

Dichlorotetrafluoroethane

Concen: 9.425 ppbv

RT: 3.22 min Scan# 89

Delta R.T. -0.00 min

Lab File: VL032871.D

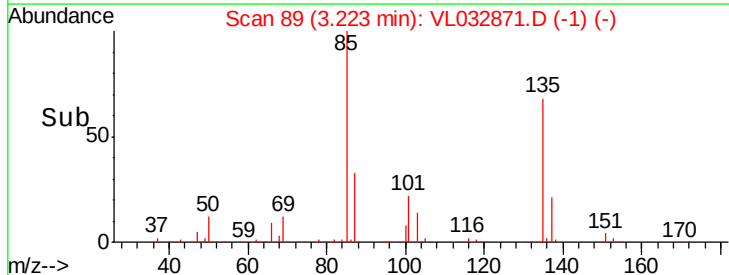
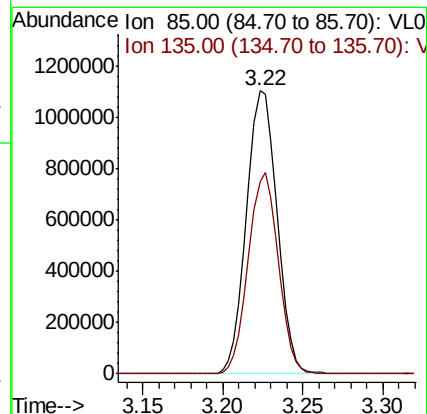
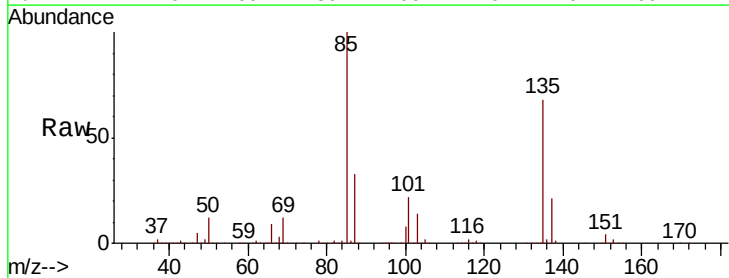
Acq: 1 Dec 2018 5:25

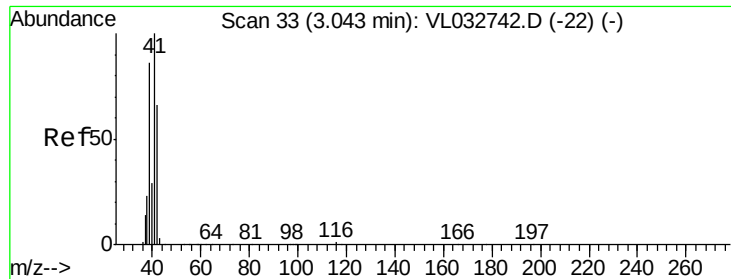
Tgt Ion: 85 Resp: 1434059

Ion Ratio Lower Upper

85 100

135 70.0 53.8 80.8





#9

Propene

Concen: 10.297 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.00 min

Lab File: VL032871.D

Acq: 1 Dec 2018 5:25

Instrument :

MSVOA_L

ClientSampleId :

VL1130ABS01

Tot Ion: 41 Resp: 438835

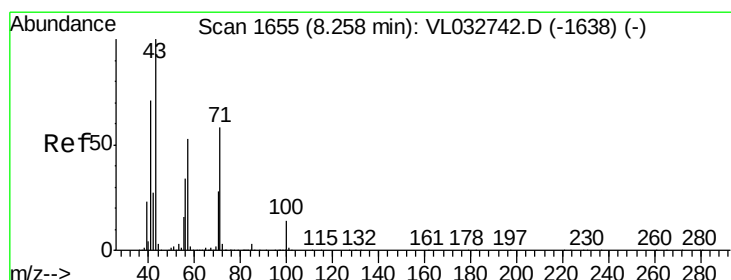
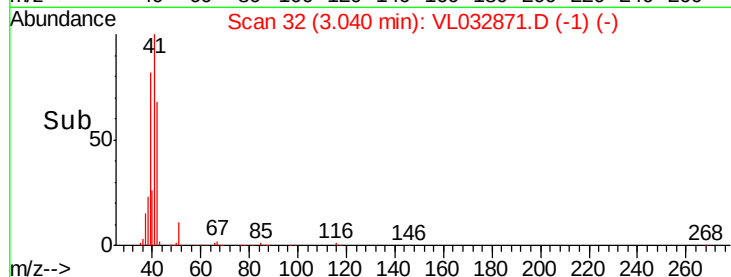
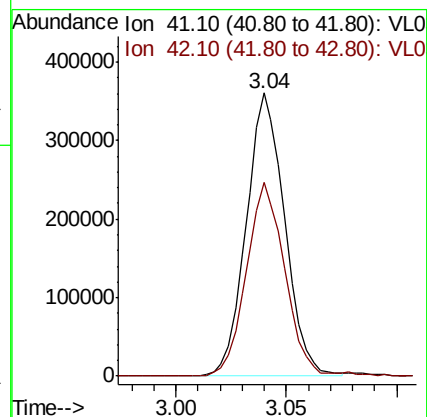
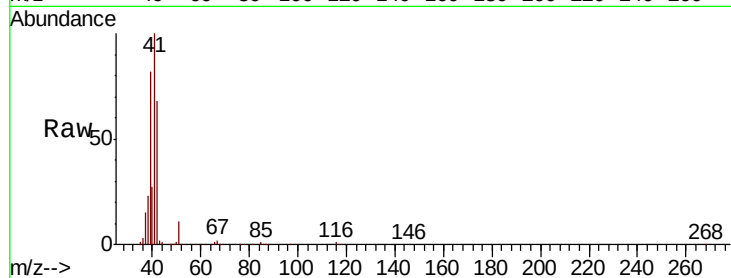
Ion Ratio Lower Upper

41 100

42 69.1 55.0 82.6

Manual Integrations
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#10

Heptane

Concen: 10.917 ppbv

RT: 8.26 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VL032871.D

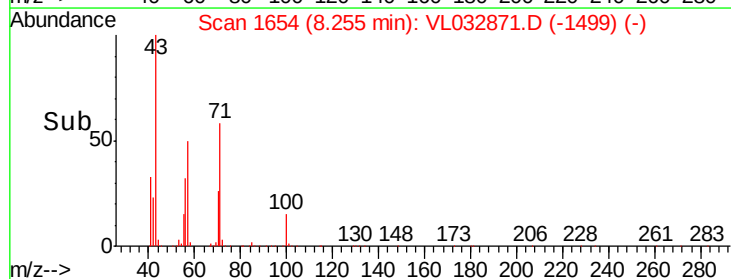
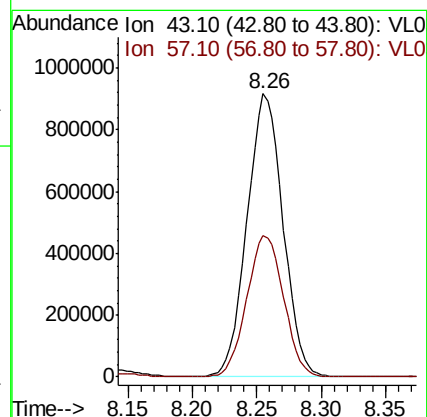
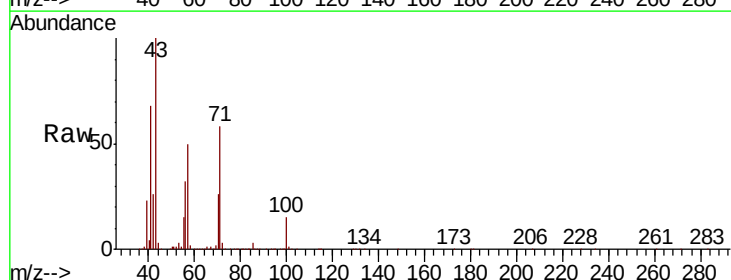
Acq: 1 Dec 2018 5:25

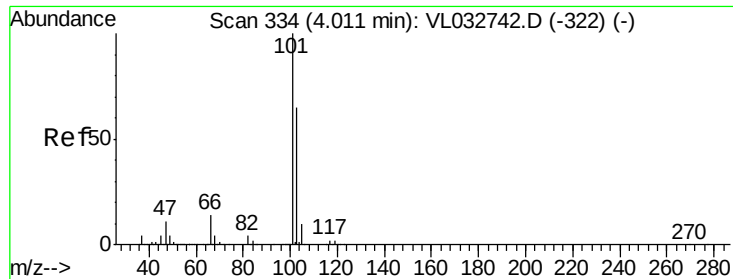
Tgt Ion: 43 Resp: 1776256

Ion Ratio Lower Upper

43 100

57 51.4 41.8 62.8





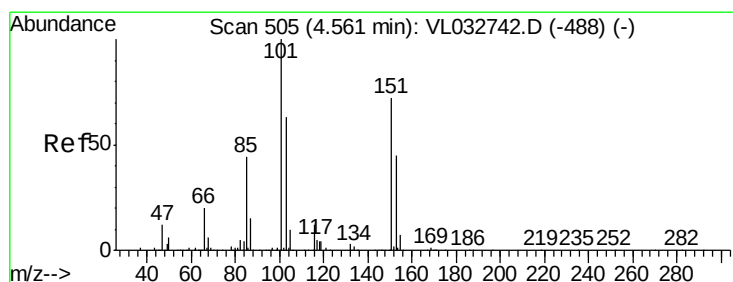
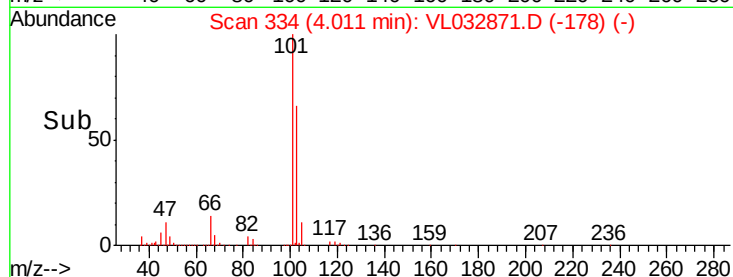
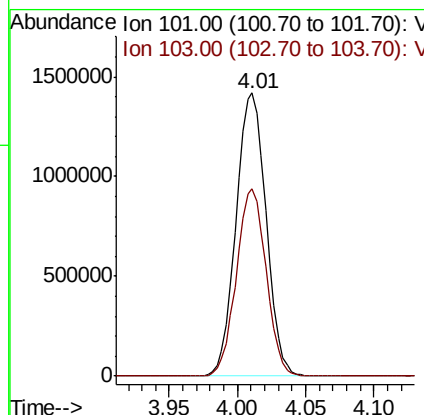
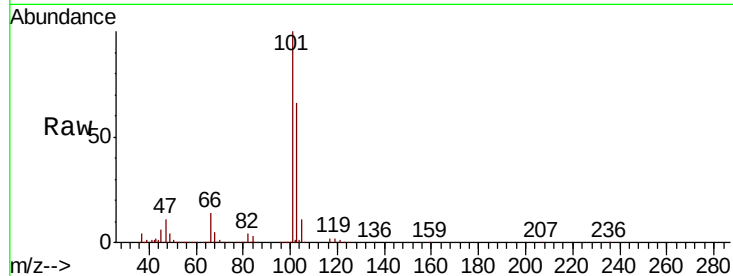
#11
 Trichlorofluoromethane
 Concen: 11.935 ppbv
 RT: 4.01 min Scan# 334
 Delta R.T. 0.00 min
 Lab File: VL032871.D
 Acq: 1 Dec 2018 5:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1130ABS01

Tot Ion:101 Resp: 2171689
 Ion Ratio Lower Upper
 101 100
 103 66.1 51.6 77.4

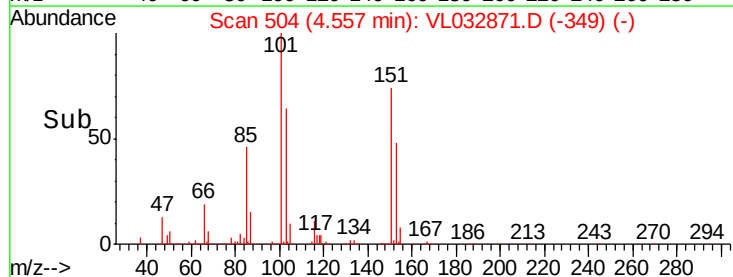
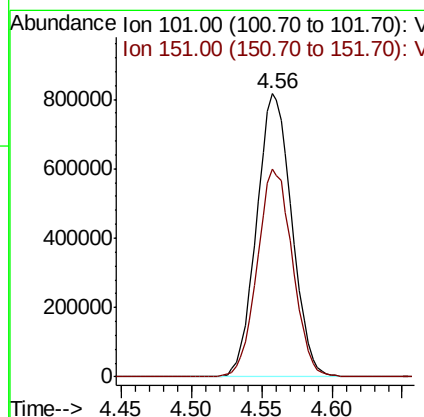
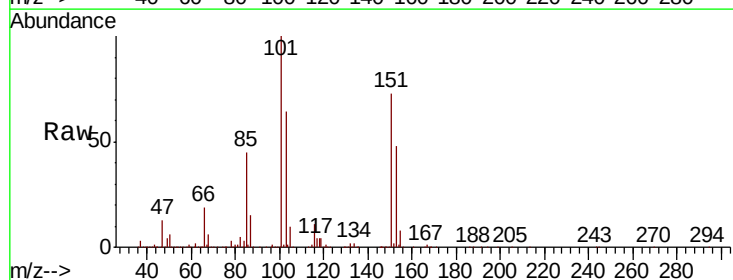
Manual Integrations
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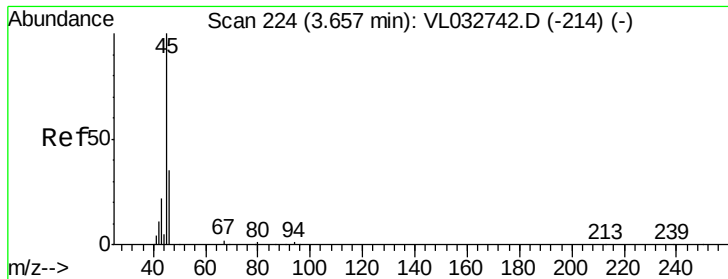
MMDadoda
 12/3/2018 4:17:19 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.579 ppbv
 RT: 4.56 min Scan# 504
 Delta R.T. -0.00 min
 Lab File: VL032871.D
 Acq: 1 Dec 2018 5:25

Tgt Ion:101 Resp: 1423741
 Ion Ratio Lower Upper
 101 100
 151 73.5 56.7 85.1





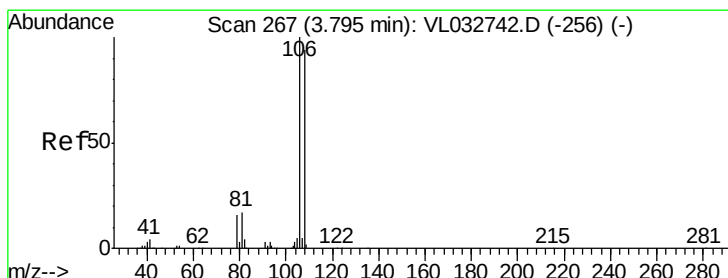
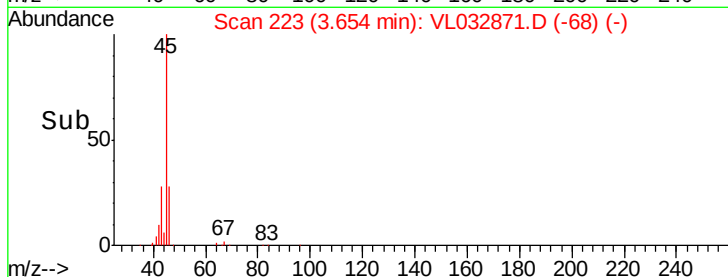
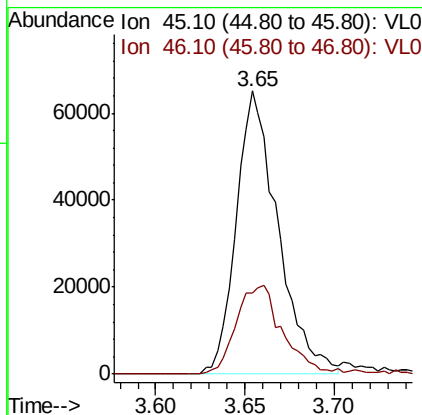
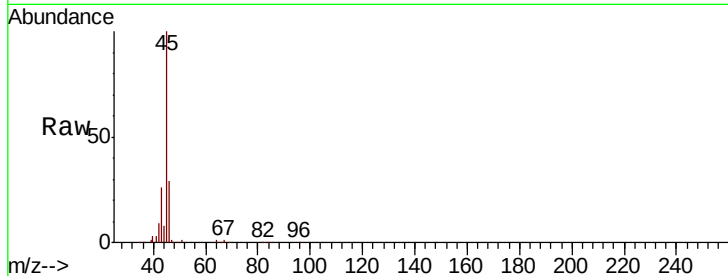
#13
Ethanol
Concen: 7.589 ppbv
RT: 3.65 min Scan# 223
Delta R.T. -0.00 min
Lab File: VL032871.D
Acq: 1 Dec 2018 5:25

Instrument :
MSVOA_L
ClientSampleId :
VL1130ABS01

Tot Ion	Ratio	Lower	Upper
45	100		
46	35.9	14.5	57.9

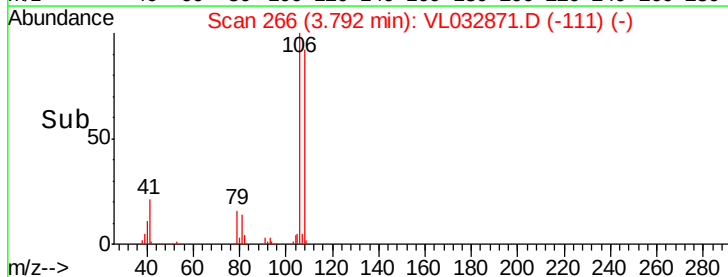
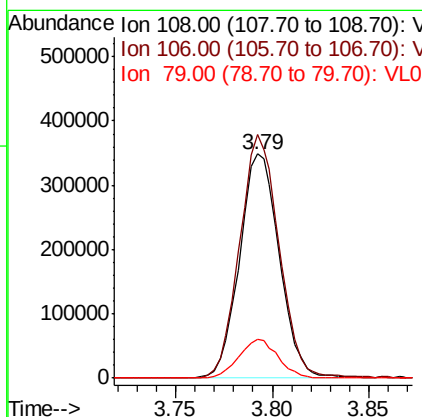
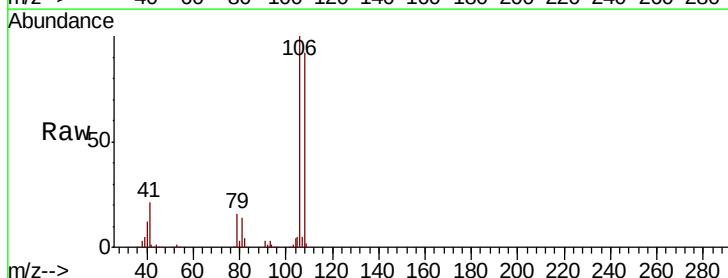
Manual Integrations
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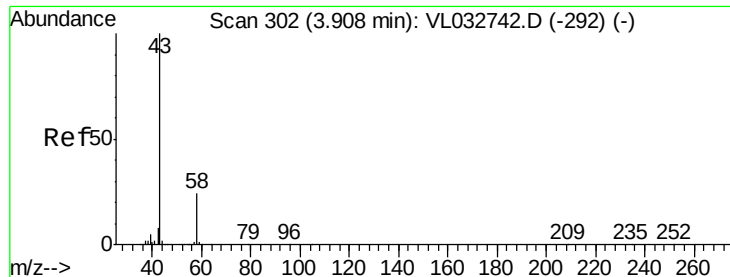
MMDadoda
12/3/2018 4:17:19 PM



#14
Bromoethene
Concen: 10.139 ppbv
RT: 3.79 min Scan# 266
Delta R.T. -0.00 min
Lab File: VL032871.D
Acq: 1 Dec 2018 5:25

Tgt Ion	Ratio	Lower	Upper
108	100		
106	107.9	84.9	127.3
79	17.3	14.2	21.4





#15

Acetone

Concen: 11.706 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.00 min

Lab File: VL032871.D

Acq: 1 Dec 2018 5:25

Tot Ion: 43 Resp: 1435936

Ion Ratio Lower Upper

43 100

58 26.7 21.1 31.7

Instrument :

MSVOA_L

ClientSampleId :

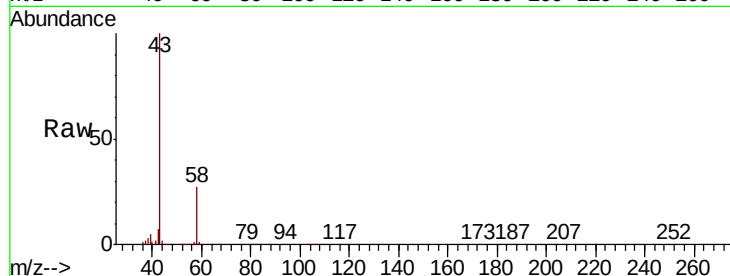
VL1130ABS01

Manual Integrations

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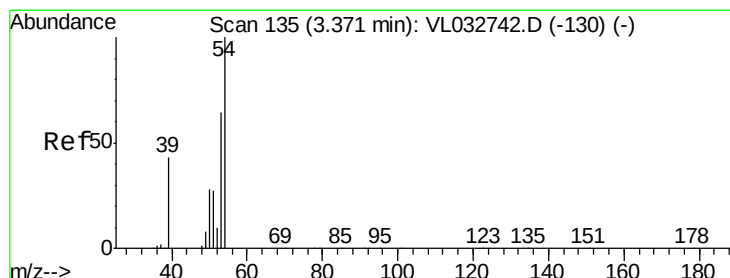
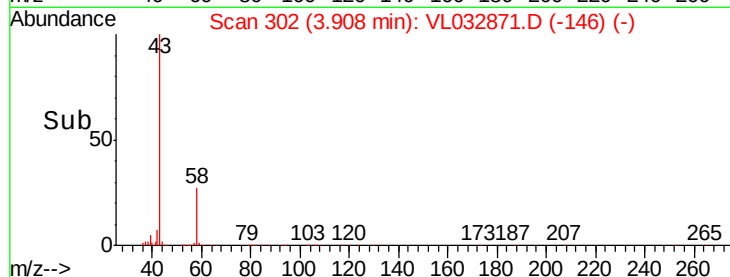
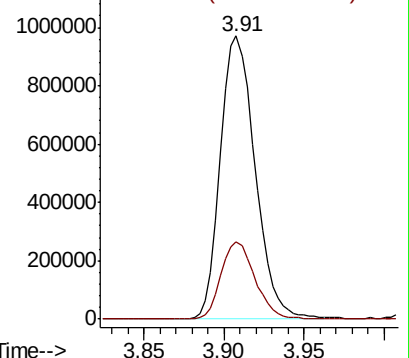
MMDadoda

12/3/2018 4:17:19 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 10.270 ppbv

RT: 3.37 min Scan# 134

Delta R.T. -0.00 min

Lab File: VL032871.D

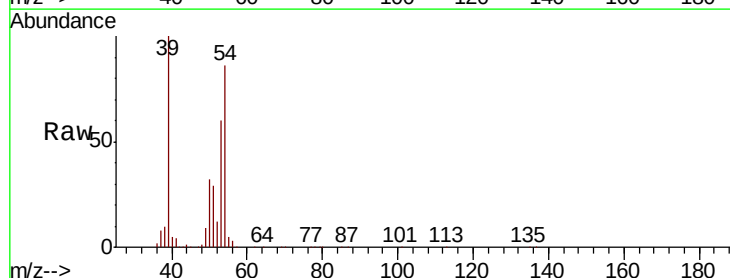
Acq: 1 Dec 2018 5:25

Tgt Ion: 39 Resp: 487880

Ion Ratio Lower Upper

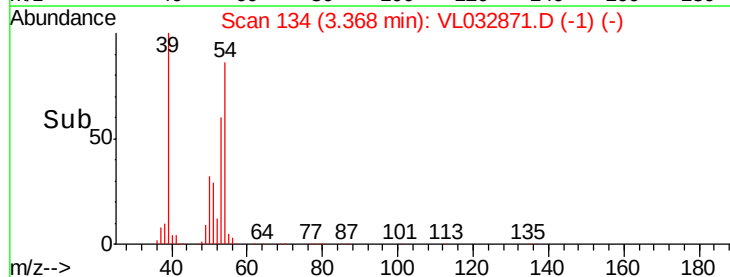
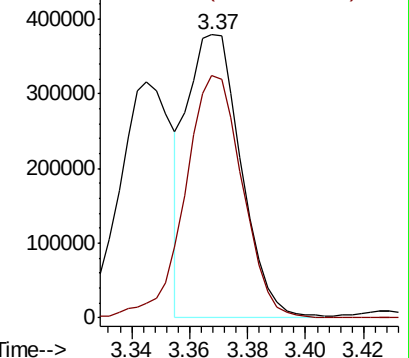
39 100

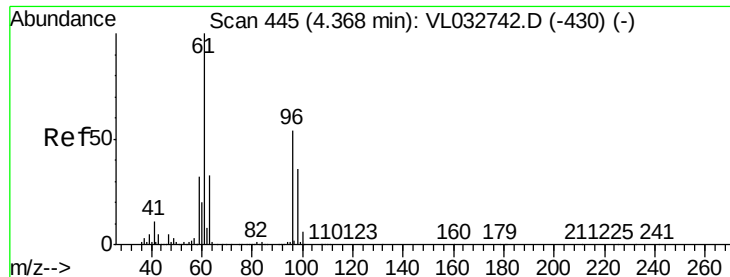
54 92.2 68.9 103.3



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 11.352 ppbv

RT: 4.36 min Scan# 444

Delta R.T. -0.00 min

Lab File: VL032871.D

Acq: 1 Dec 2018 5:25

Instrument :

MSVOA_L

ClientSampleId :

VL1130ABS01

Tot Ion: 59 Resp: 436771

Ion Ratio Lower Upper

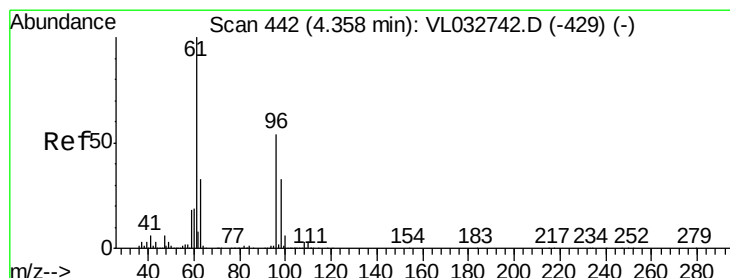
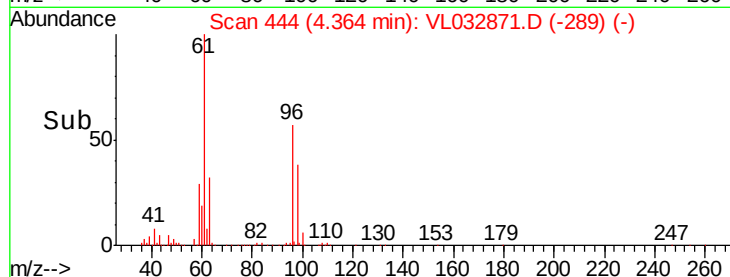
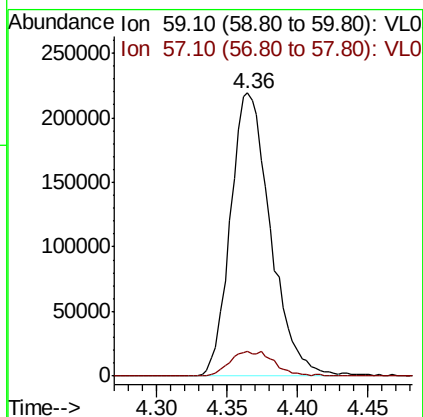
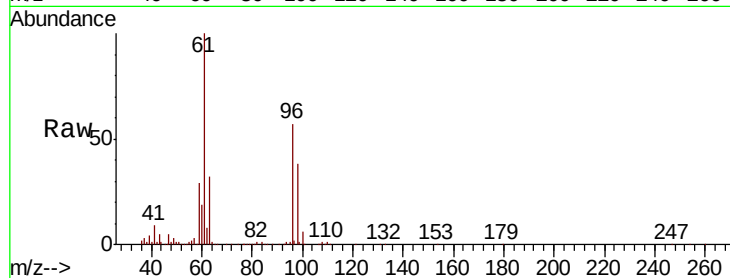
59 100

57 9.8 7.8 11.8

Manual Integrations
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#18

1,1-Dichloroethene

Concen: 10.500 ppbv

RT: 4.36 min Scan# 442

Delta R.T. 0.00 min

Lab File: VL032871.D

Acq: 1 Dec 2018 5:25

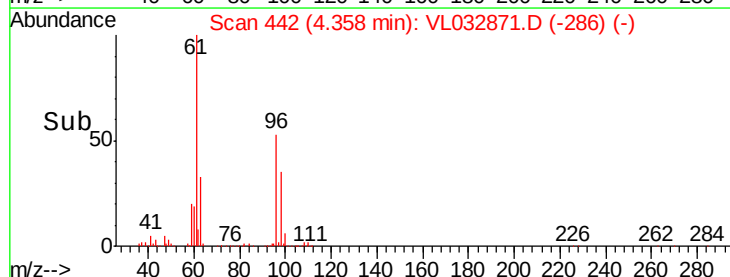
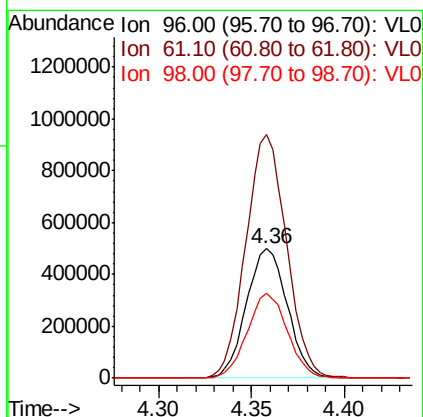
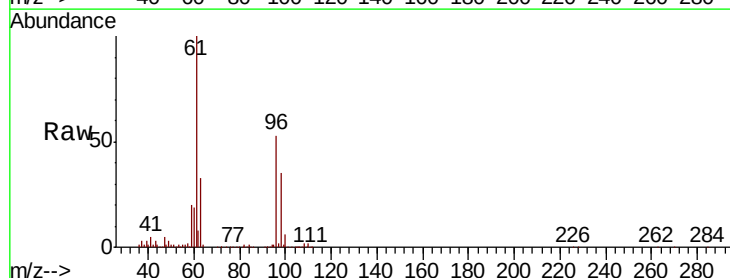
Tgt Ion: 96 Resp: 767460

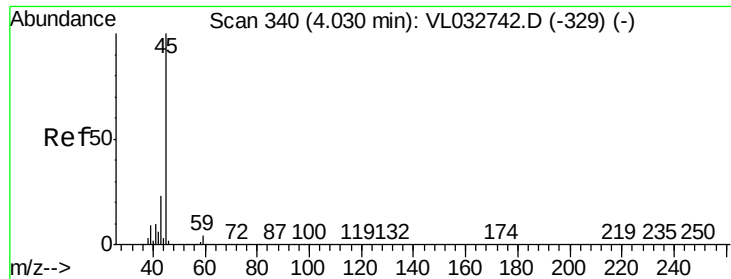
Ion Ratio Lower Upper

96 100

61 188.2 148.5 222.7

98 65.9 48.6 72.8





#19

Isopropyl Alcohol

Concen: 12.166 ppbv

RT: 4.03 min Scan# 340

Delta R.T. 0.00 min

Lab File: VL032871.D

Acq: 1 Dec 2018 5:25

Instrument :

MSVOA_L

ClientSampleId :

VL1130ABS01

Tot Ion: 45 Resp: 994240

Ion Ratio Lower Upper

45 100

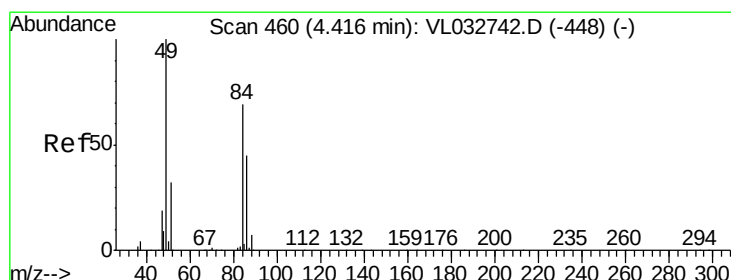
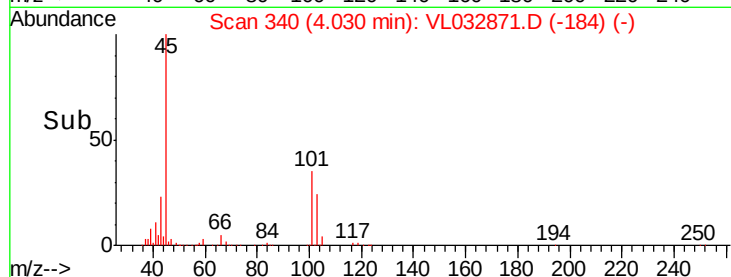
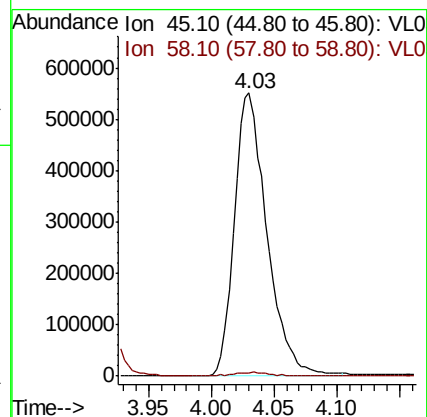
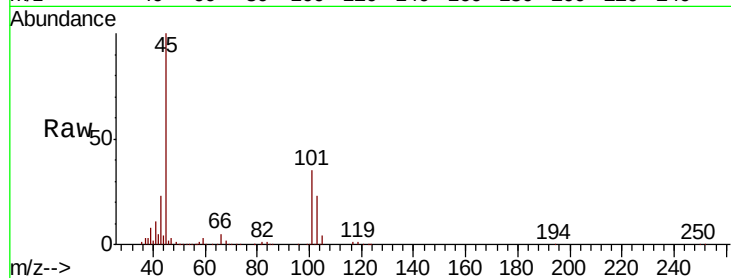
58 1.6 1.4 2.0

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#20

Methylene Chloride

Concen: 8.749 ppbv

RT: 4.42 min Scan# 460

Delta R.T. 0.00 min

Lab File: VL032871.D

Acq: 1 Dec 2018 5:25

Tgt Ion: 84 Resp: 555596

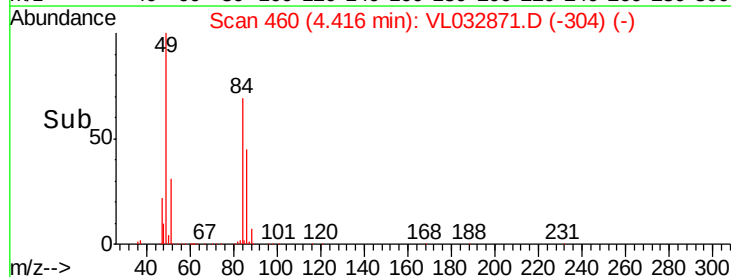
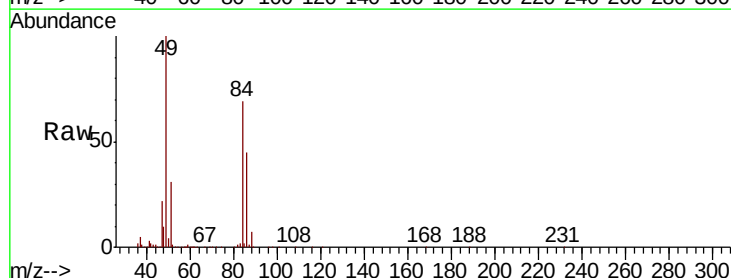
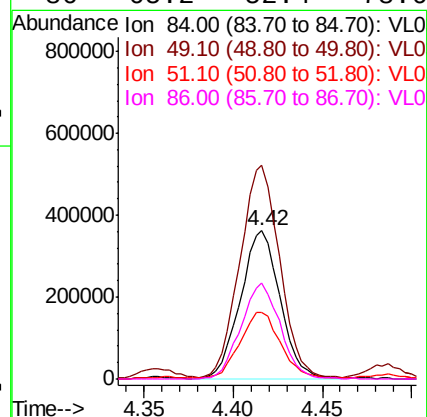
Ion Ratio Lower Upper

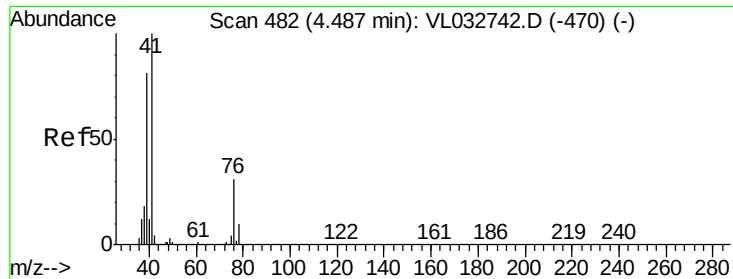
84 100

49 143.3 115.8 173.6

51 44.0 36.9 55.3

86 65.2 52.4 78.6





#21

Allvl Chloride

Concen: 9.905 ppbv

RT: 4.48 min Scan# 481

Delta R.T. -0.00 min

Lab File: VL032871.D

Acq: 1 Dec 2018 5:25

Instrument :

MSVOA_L

ClientSampleId :

VL1130ABS01

Tot Ion: 41 Resp: 1021055

Ion Ratio Lower Upper

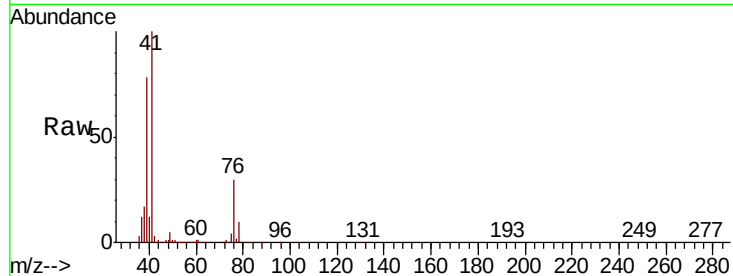
41 100

76 30.4 24.4 36.6

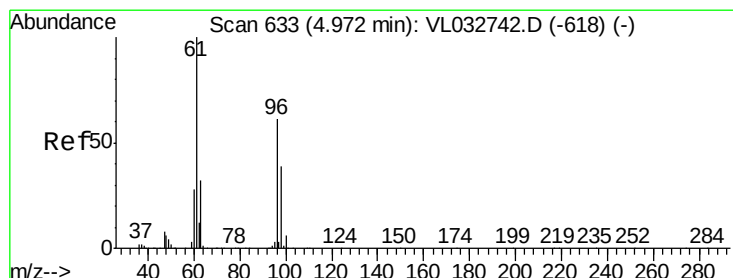
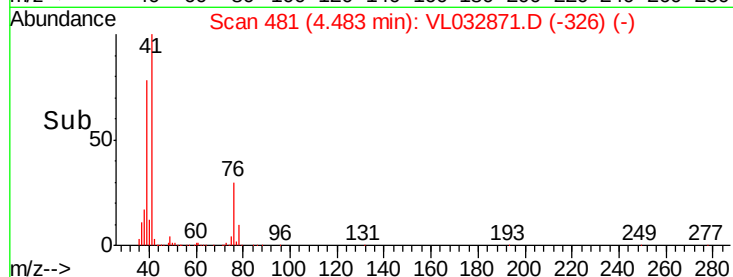
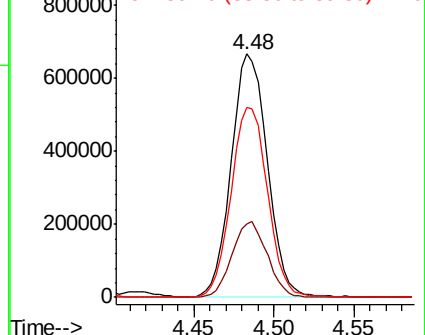
39 78.7 63.5 95.3

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Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 10.478 ppbv

RT: 4.97 min Scan# 632

Delta R.T. -0.00 min

Lab File: VL032871.D

Acq: 1 Dec 2018 5:25

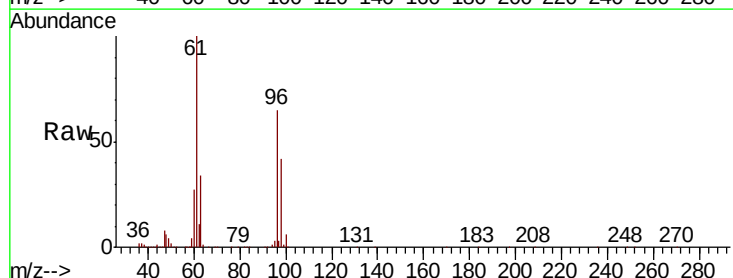
Tgt Ion: 96 Resp: 747795

Ion Ratio Lower Upper

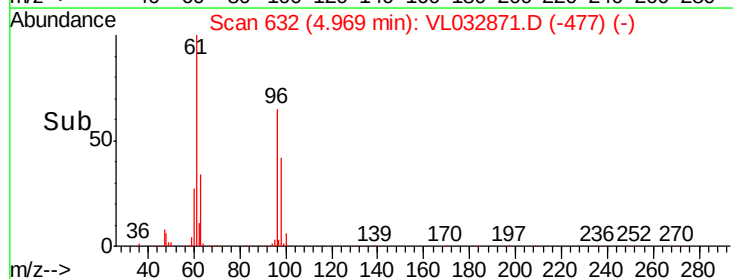
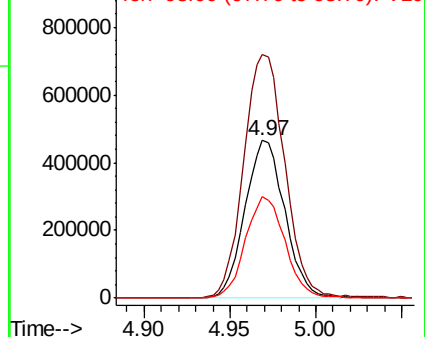
96 100

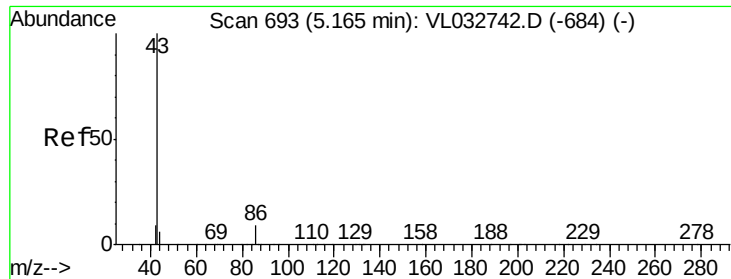
61 154.4 130.2 195.2

98 64.5 50.2 75.2



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 11.000 ppbv

RT: 5.16 min Scan# 692

Delta R.T. -0.00 min

Lab File: VL032871.D

Acq: 1 Dec 2018 5:25

Instrument :

MSVOA_L

ClientSampleId :

VL1130ABS01

Tot Ion: 43 Resp: 2459709

Ion Ratio Lower Upper

43 100

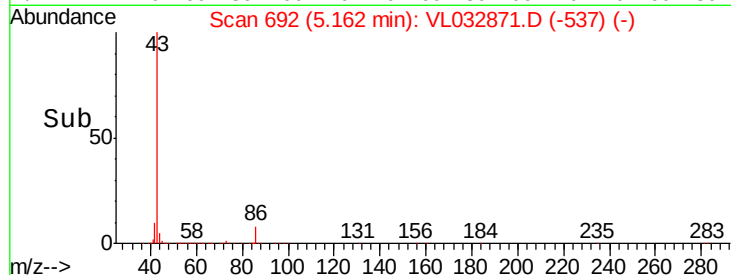
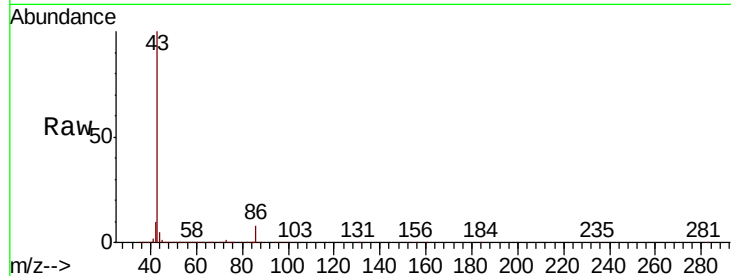
86 7.8 6.2 9.4

42 10.1 7.8 11.6

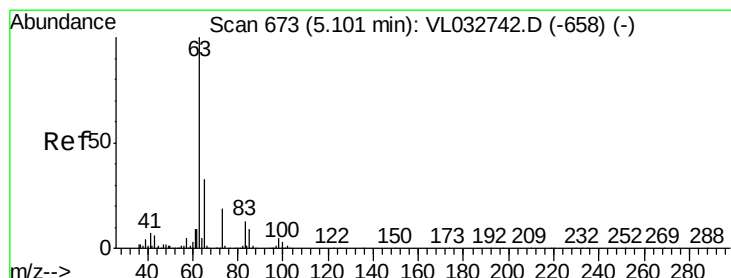
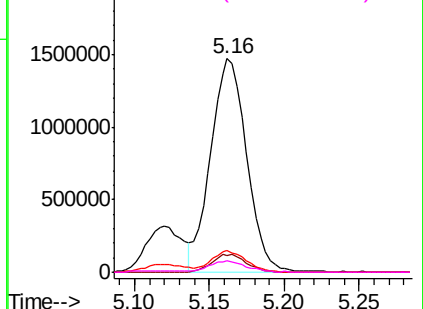
44 5.3 4.4 6.6

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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: 10.127 ppbv

RT: 5.10 min Scan# 672

Delta R.T. -0.00 min

Lab File: VL032871.D

Acq: 1 Dec 2018 5:25

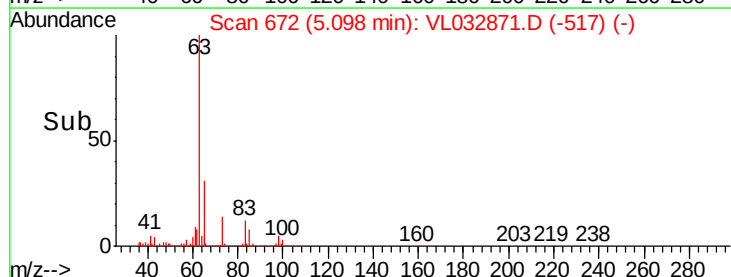
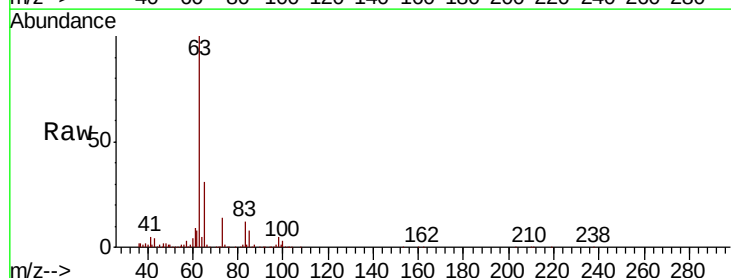
Tgt Ion: 63 Resp: 1800287

Ion Ratio Lower Upper

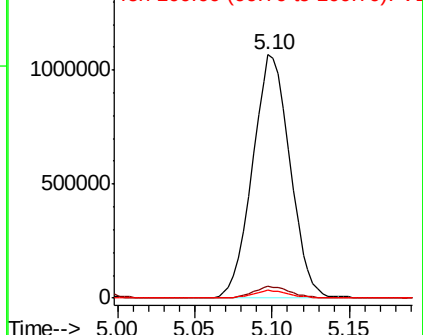
63 100

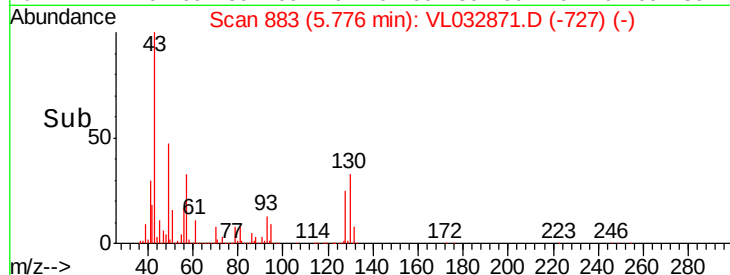
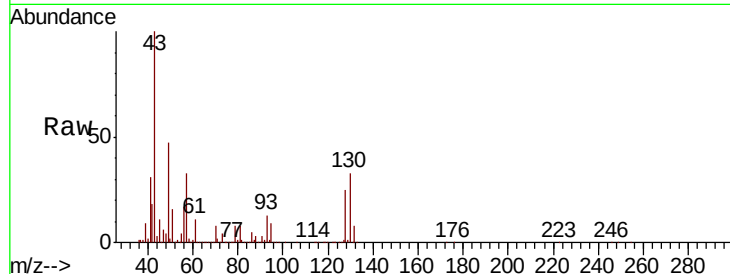
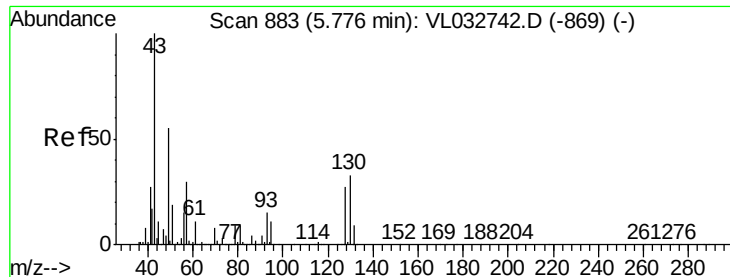
98 4.6 2.3 6.8

100 3.1 1.4 4.2



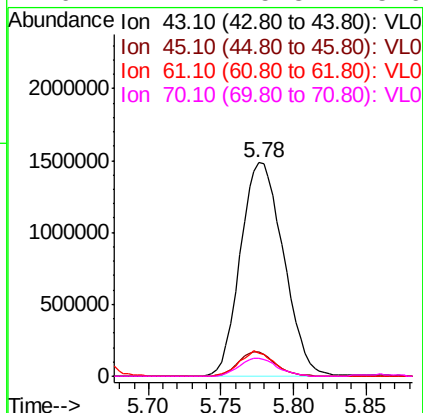
Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0





#25
Ethyl Acetate
Concen: 10.721 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.00 min
Lab File: VL032871.D
Acq: 1 Dec 2018 5:25

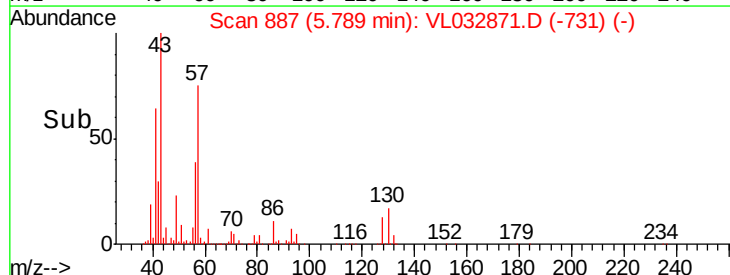
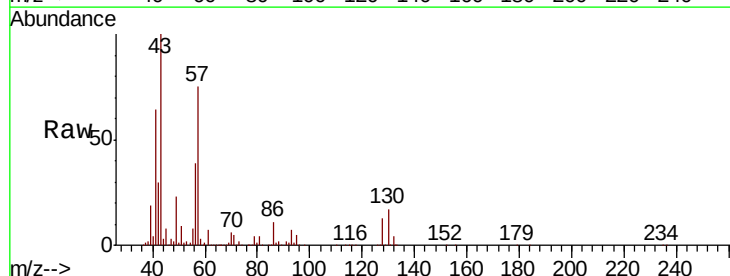
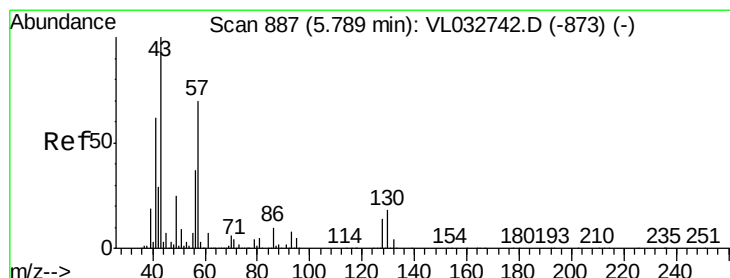
Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	9.9	7.9	11.9	
61	9.6	7.8	11.6	
70	7.4	5.8	8.6	



Instrument :
MSVOA_L
ClientSampleId :
VL1130ABS01

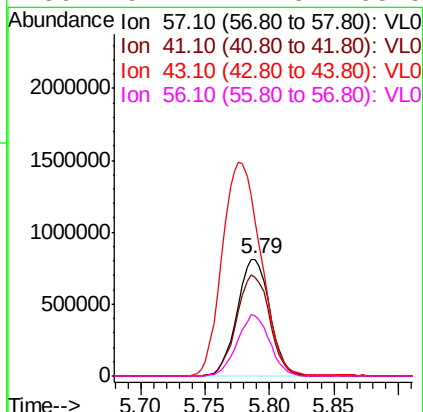
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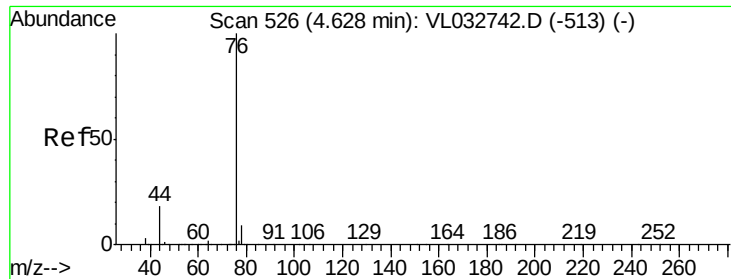
MMDadoda
12/3/2018 4:17:19 PM



#26
Hexane
Concen: 11.251 ppbv
RT: 5.79 min Scan# 887
Delta R.T. 0.00 min
Lab File: VL032871.D
Acq: 1 Dec 2018 5:25

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	87.8	70.3	105.5	
43	215.0	174.0	261.0	
56	52.1	42.3	63.5	





#27

Carbon Disulfide

Concen: 11.927 ppbv

RT: 4.62 min Scan# 525

Delta R.T. -0.00 min

Lab File: VL032871.D

Acq: 1 Dec 2018 5:25

Instrument :

MSVOA_L

ClientSampleId :

VL1130ABS01

Tot Ion: 76 Resp: 1924762

Ion Ratio Lower Upper

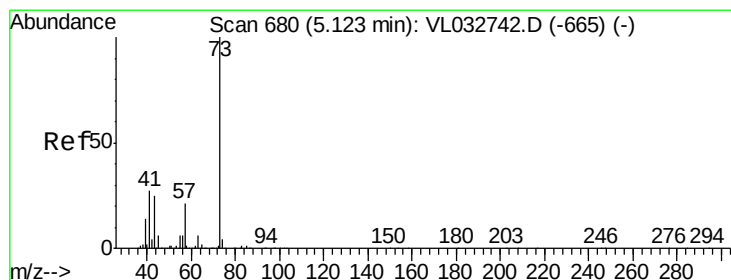
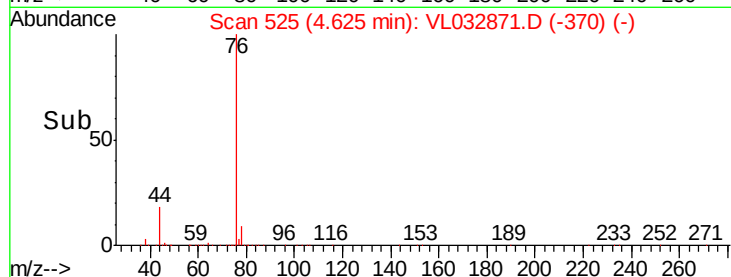
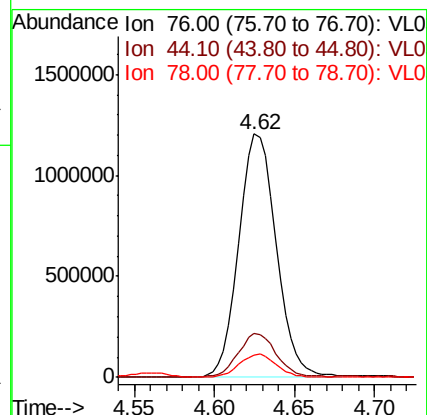
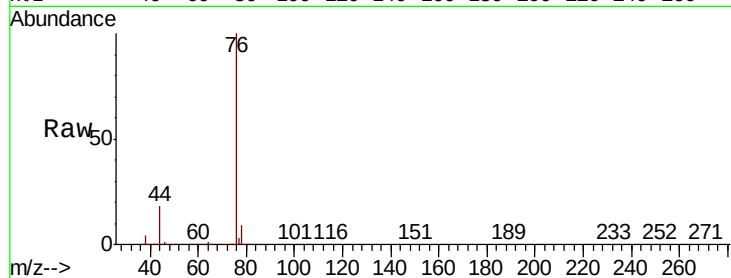
76 100

44 18.0 14.4 21.6

78 9.6 7.7 11.5

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 11.383 ppbv

RT: 5.12 min Scan# 679

Delta R.T. -0.00 min

Lab File: VL032871.D

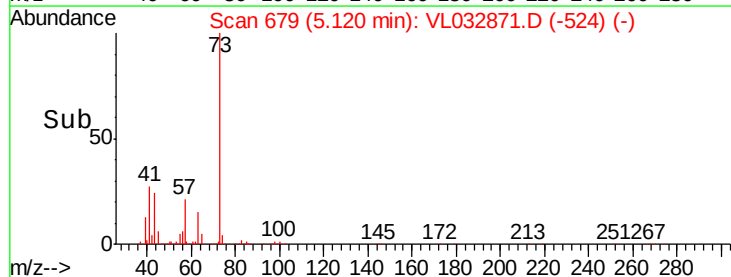
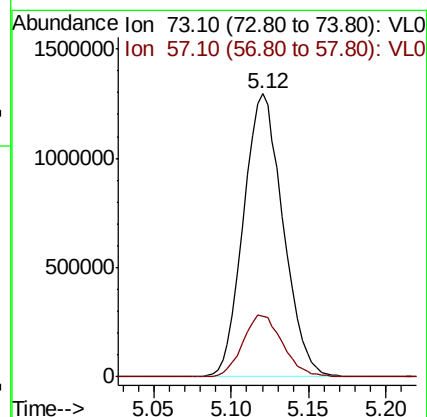
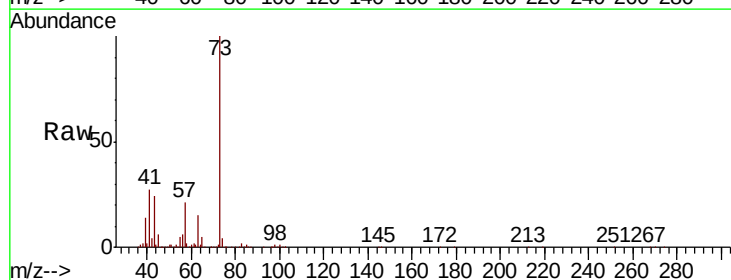
Acq: 1 Dec 2018 5:25

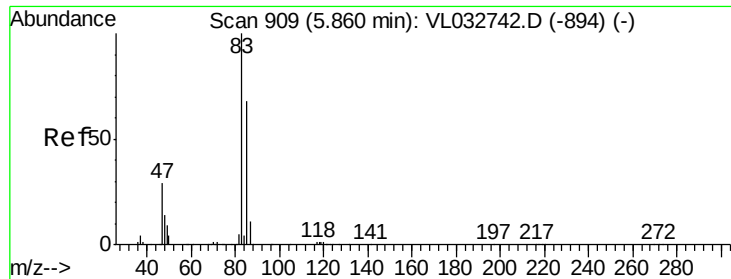
Tgt Ion: 73 Resp: 2310200

Ion Ratio Lower Upper

73 100

57 22.0 17.5 26.3





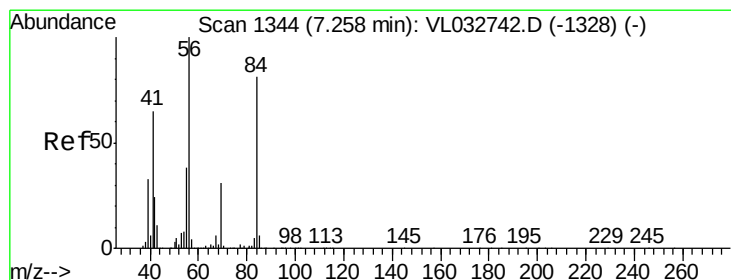
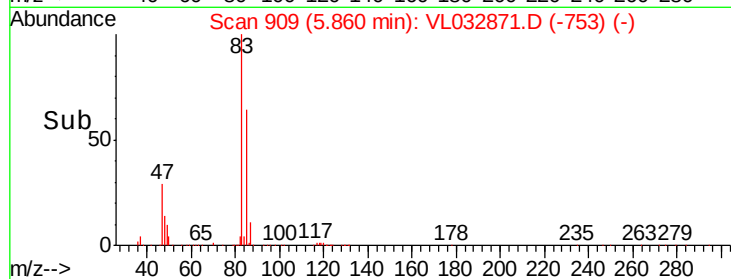
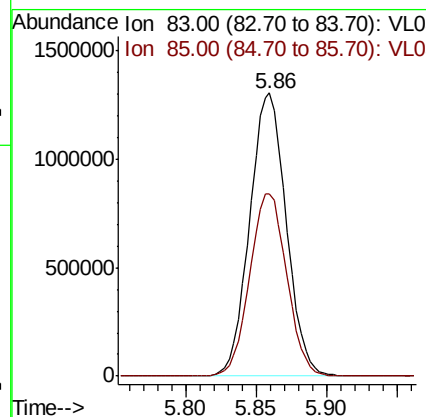
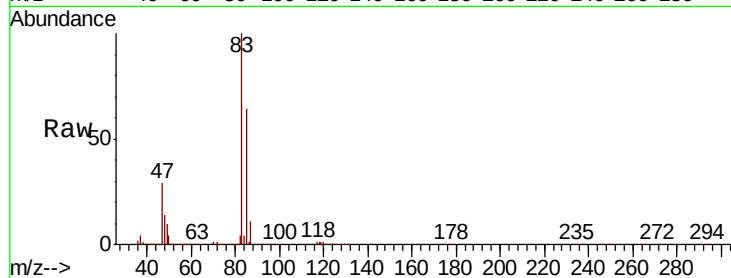
#29
Chloroform
Concen: 10.448 ppbv
RT: 5.86 min Scan# 909
Delta R.T. 0.00 min
Lab File: VL032871.D
Acq: 1 Dec 2018 5:25

Instrument :
MSVOA_L
ClientSampleId :
VL1130ABS01

Tot Ion: 83 Resp: 2370018
Ion Ratio Lower Upper
83 100
85 64.3 54.2 81.4

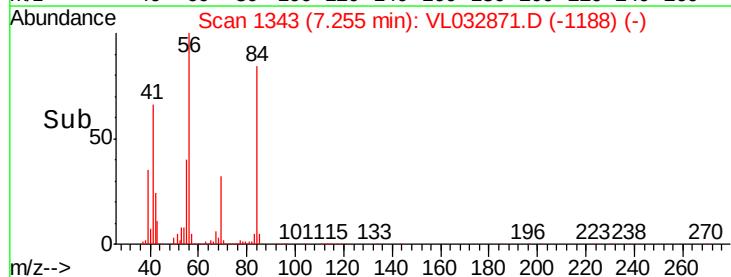
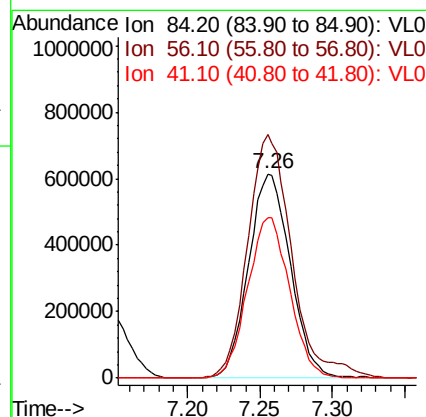
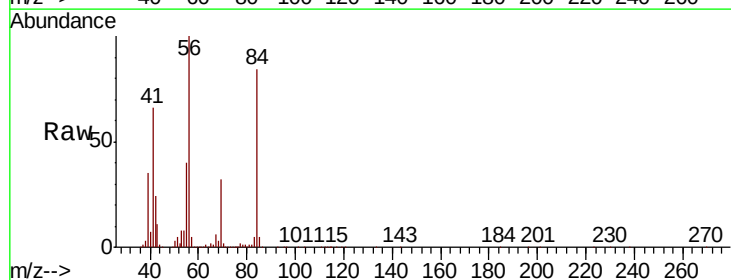
Manual Integrations
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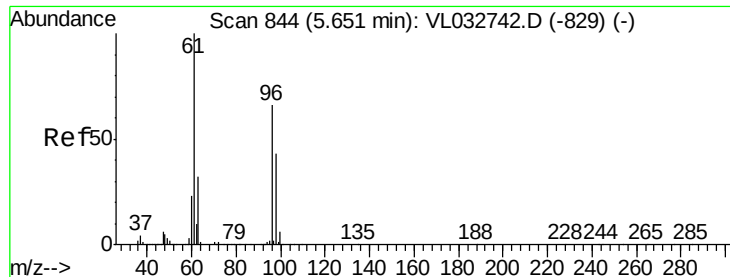
MMDadoda
12/3/2018 4:17:19 PM



#30
Cyclohexane
Concen: 11.067 ppbv
RT: 7.26 min Scan# 1343
Delta R.T. -0.00 min
Lab File: VL032871.D
Acq: 1 Dec 2018 5:25

Tgt Ion: 84 Resp: 1231973
Ion Ratio Lower Upper
84 100
56 126.6 105.0 157.4
41 79.1 65.3 97.9





#31

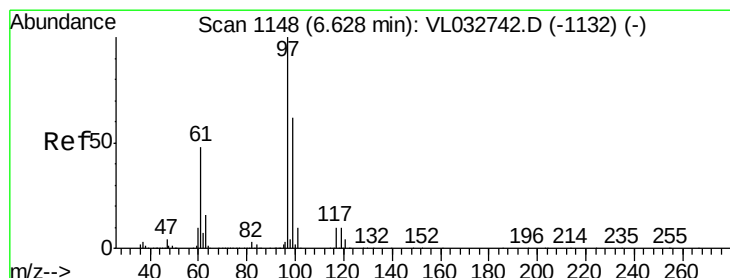
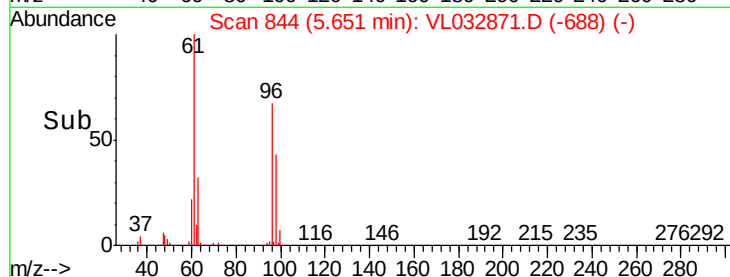
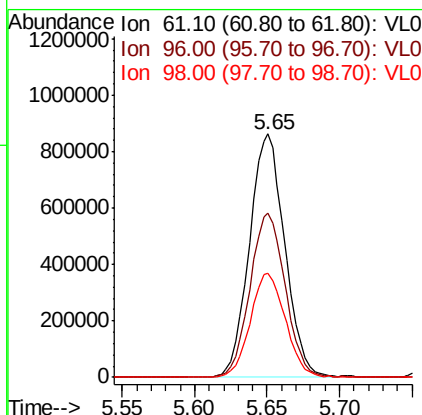
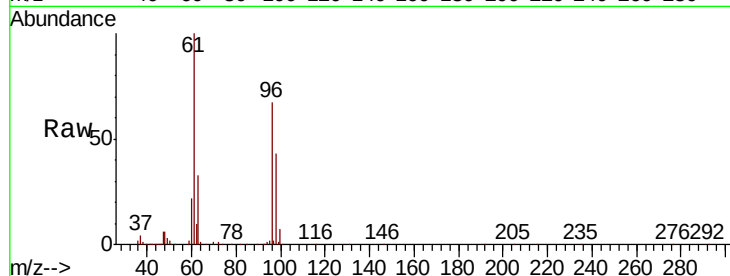
cis-1,2-Dichloroethene
 Concen: 11.442 ppbv
 RT: 5.65 min Scan# 844
 Delta R.T. 0.00 min
 Lab File: VL032871.D
 Acq: 1 Dec 2018 5:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1130ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	67.2	53.2	79.8
98	42.8	34.4	51.6

Manual Integrations
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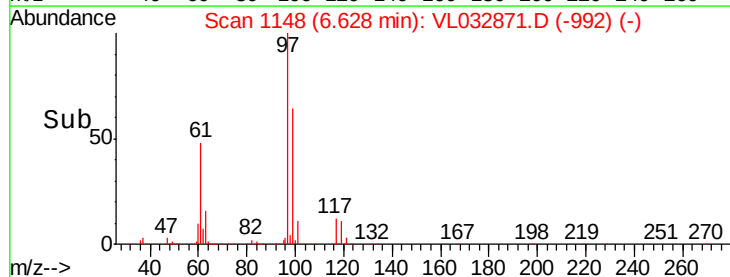
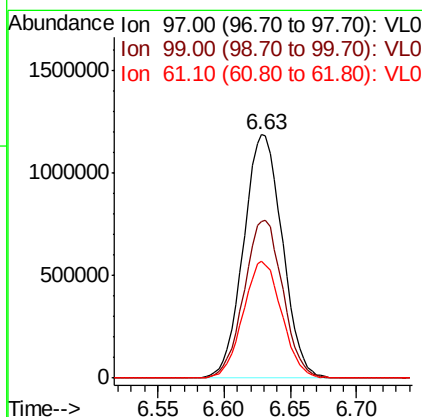
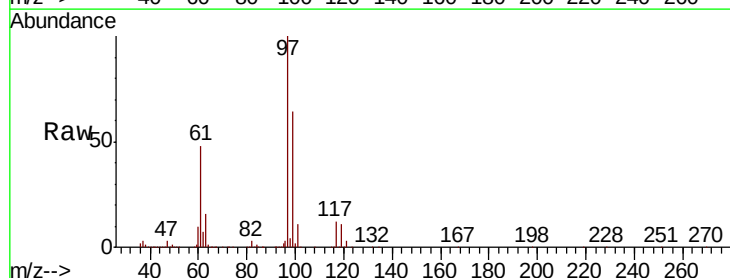
MMDadoda
 12/3/2018 4:17:19 PM

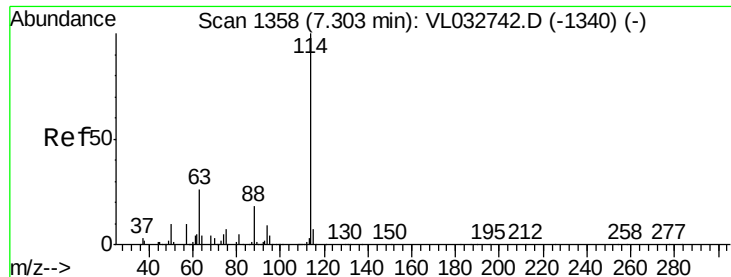


#32

1,1,1-Trichloroethane
 Concen: 9.730 ppbv
 RT: 6.63 min Scan# 1148
 Delta R.T. 0.00 min
 Lab File: VL032871.D
 Acq: 1 Dec 2018 5:25

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.8	77.6
61	47.8	39.7	59.5





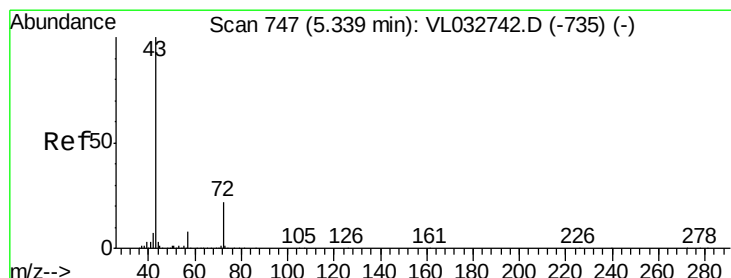
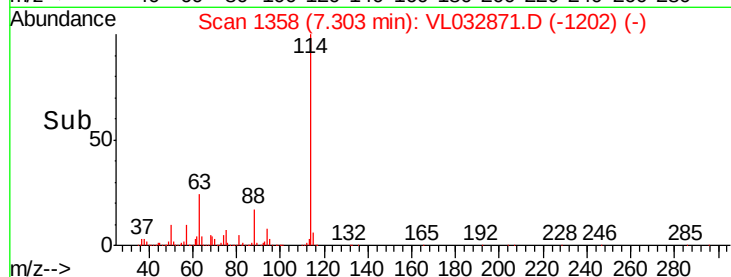
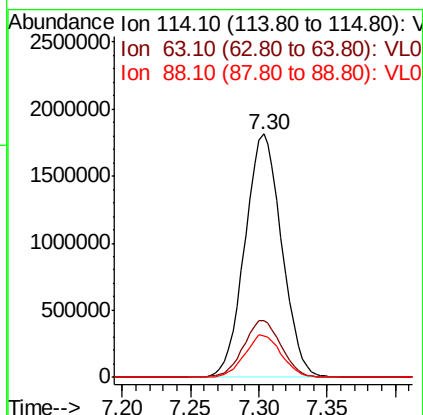
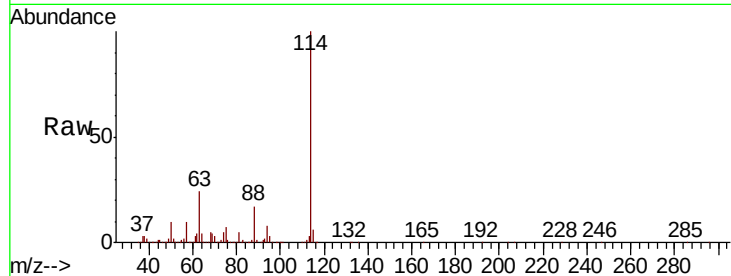
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1358
 Delta R.T. 0.00 min
 Lab File: VL032871.D
 Acq: 1 Dec 2018 5:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1130ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	24.2	20.9	31.3
88	17.4	14.4	21.6

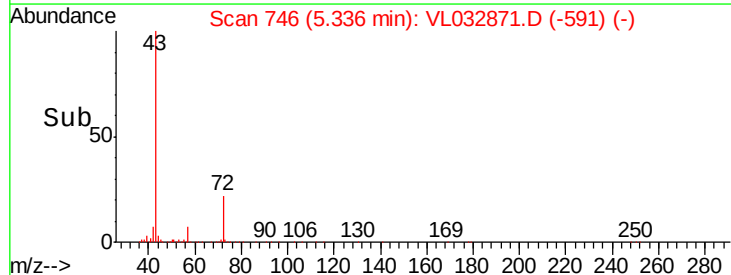
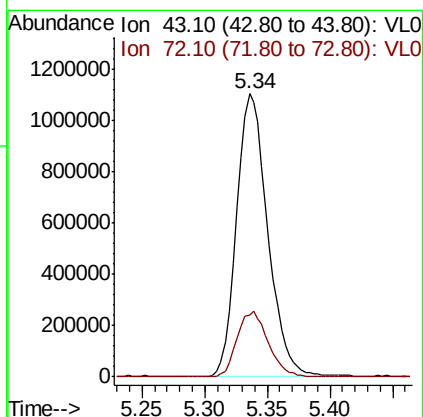
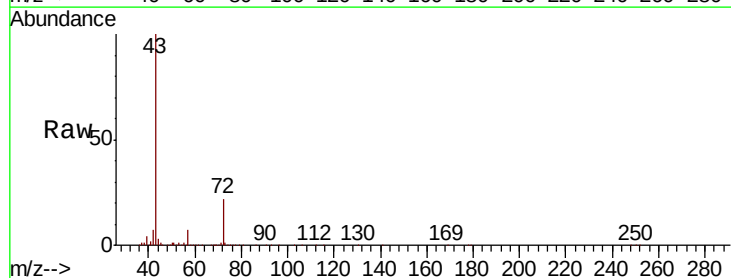
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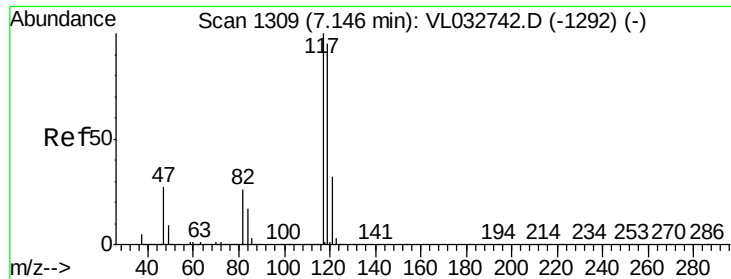
MMDadoda
 12/3/2018 4:17:19 PM



#34
 2-Butanone
 Concen: 10.751 ppbv
 RT: 5.34 min Scan# 746
 Delta R.T. -0.00 min
 Lab File: VL032871.D
 Acq: 1 Dec 2018 5:25

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.5	18.4	27.6





#35

Carbon Tetrachloride

Concen: 9.465 ppbv

RT: 7.14 min Scan# 1308

Delta R.T. -0.00 min

Lab File: VL032871.D

Acq: 1 Dec 2018 5:25

Instrument :

MSVOA_L

ClientSampleId :

VL1130ABS01

Tot Ion:117 Resp: 2584182

Ion Ratio Lower Upper

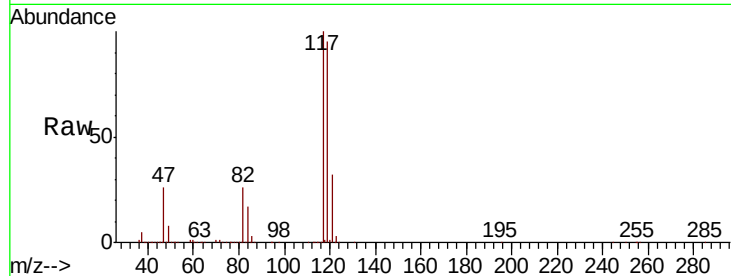
117 100

119 95.1 76.1 114.1

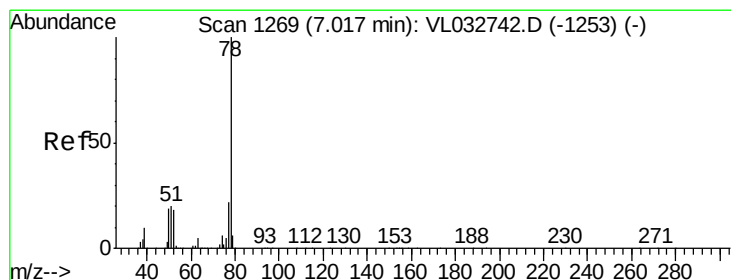
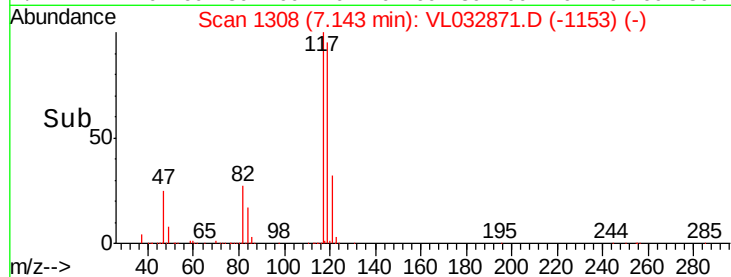
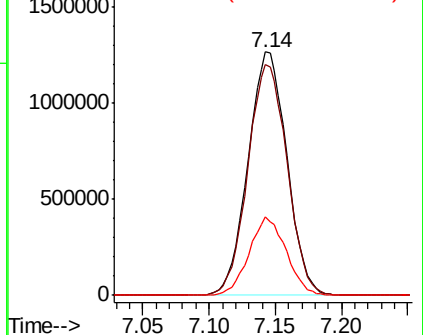
121 32.4 25.4 38.0

Manual Integrations
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MMDadoda
12/3/2018 4:17:19 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: 10.788 ppbv

RT: 7.02 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VL032871.D

Acq: 1 Dec 2018 5:25

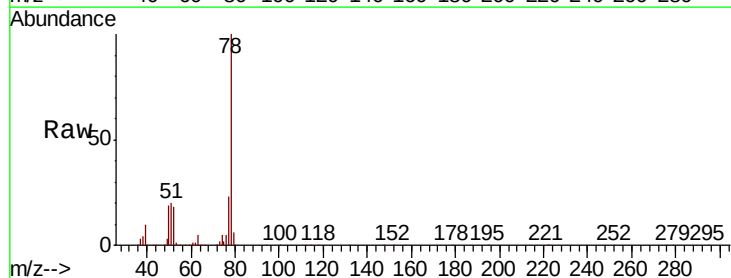
Tgt Ion: 78 Resp: 2917615

Ion Ratio Lower Upper

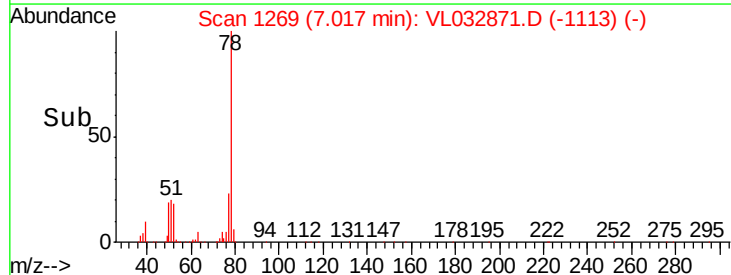
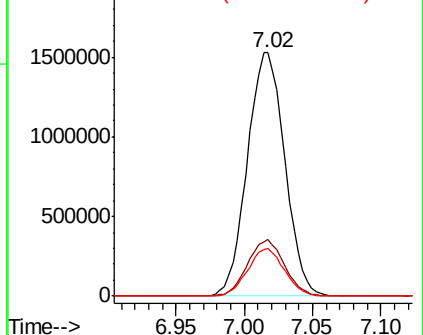
78 100

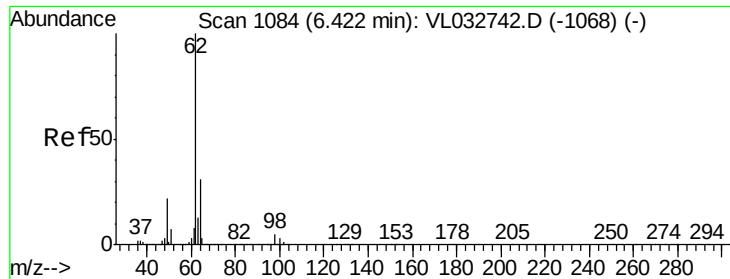
77 23.2 17.8 26.8

50 19.4 15.4 23.0



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





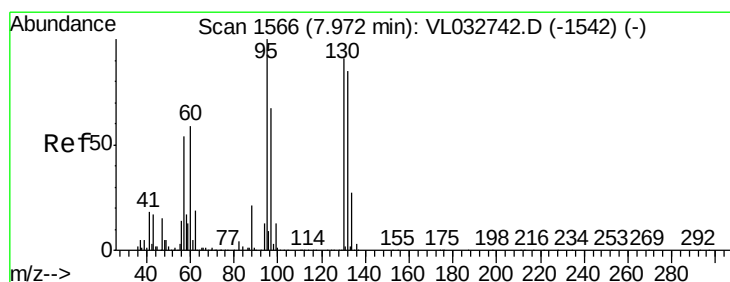
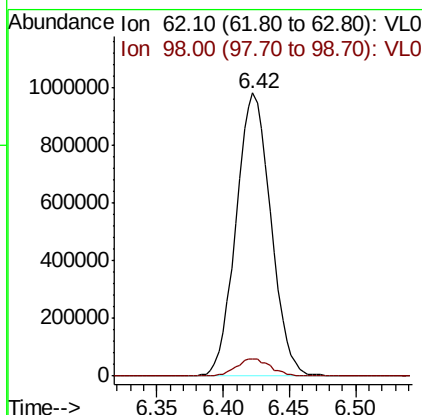
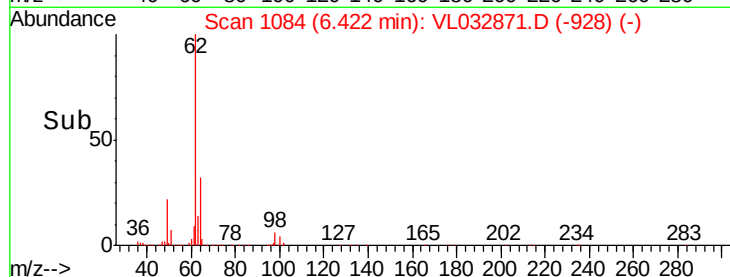
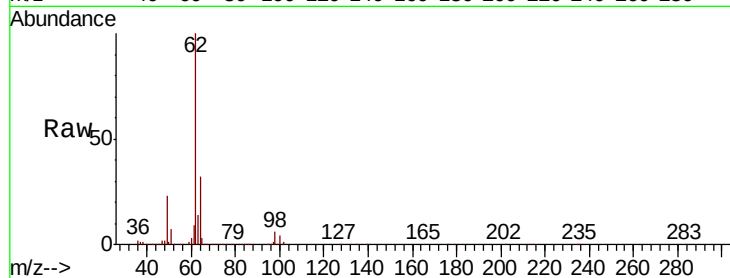
#37
 1,2-Dichloroethane
 Concen: 9.834 ppbv
 RT: 6.42 min Scan# 1084
 Delta R.T. 0.00 min
 Lab File: VL032871.D
 Acq: 1 Dec 2018 5:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1130ABS01

Tot Ion: 62 Resp: 1790386
 Ion Ratio Lower Upper
 62 100
 98 6.0 4.5 6.7

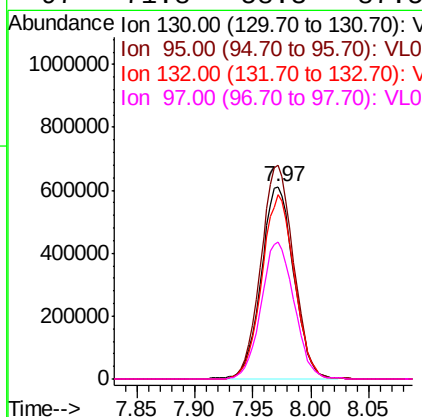
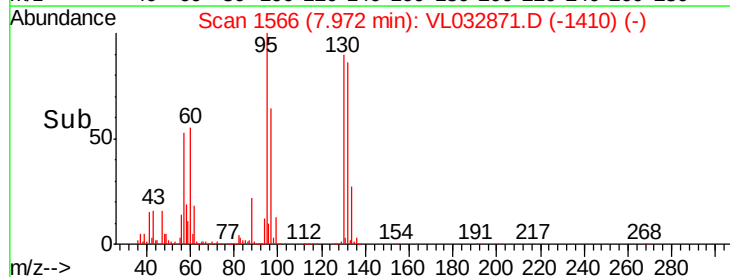
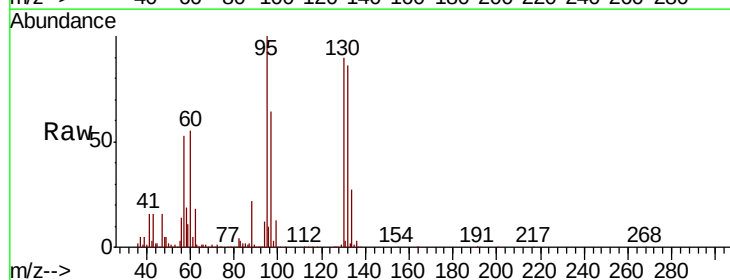
Manual Integrations
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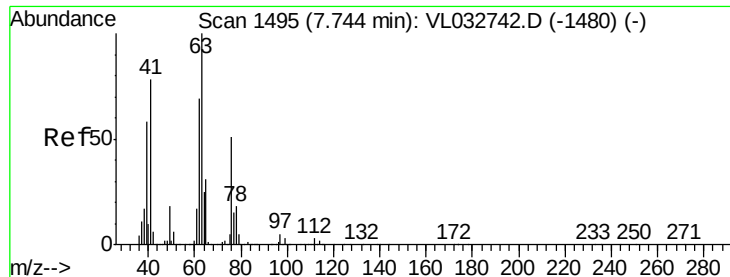
MMDadoda
 12/3/2018 4:17:19 PM



#38
 Trichloroethene
 Concen: 10.921 ppbv
 RT: 7.97 min Scan# 1566
 Delta R.T. 0.00 min
 Lab File: VL032871.D
 Acq: 1 Dec 2018 5:25

Tgt Ion:130 Resp: 1195294
 Ion Ratio Lower Upper
 130 100
 95 111.4 87.7 131.5
 132 96.2 74.6 111.8
 97 71.8 58.3 87.5





#39

1,2-Dichloropropane

Concen: 10.447 ppbv

RT: 7.75 min Scan# 1497

Delta R.T. 0.01 min

Lab File: VL032871.D

Acq: 1 Dec 2018 5:25

Instrument :

MSVOA_L

ClientSampleId :

VL1130ABS01

Tot Ion: 63 Resp: 1076457

Ion Ratio Lower Upper

63 100

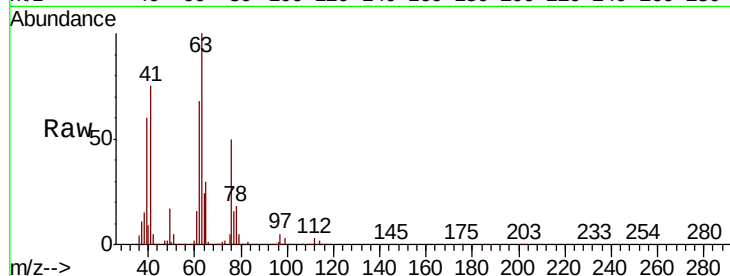
41 75.2 62.0 93.0

62 67.4 55.4 83.2

Manual Integrations
APPROVED

MMDadoda

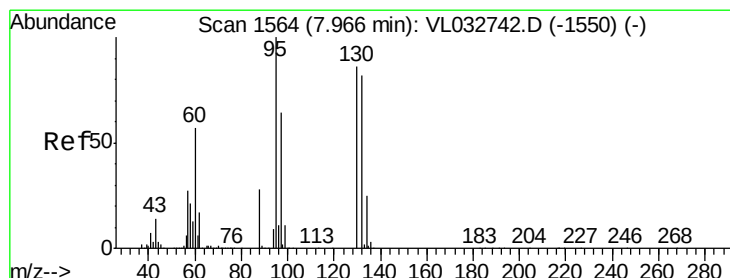
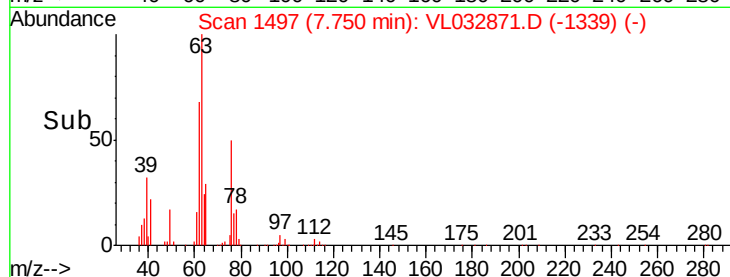
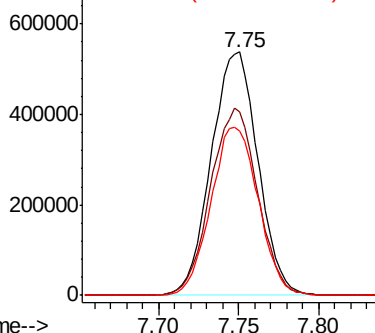
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Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 10.288 ppbv

RT: 7.97 min Scan# 1564

Delta R.T. 0.00 min

Lab File: VL032871.D

Acq: 1 Dec 2018 5:25

Tgt Ion: 88 Resp: 378651

Ion Ratio Lower Upper

88 100

58 131.9 105.3 157.9

43 0.0 226.1 339.1#

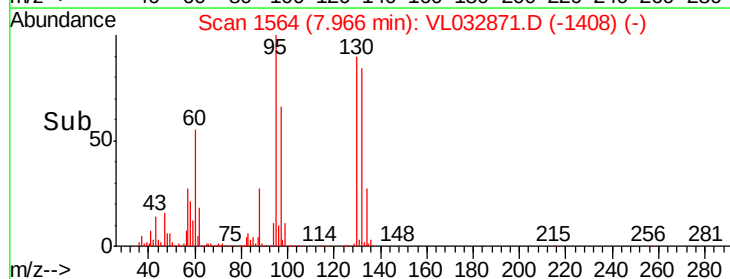
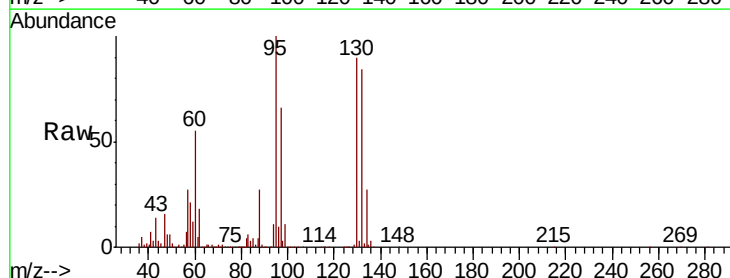
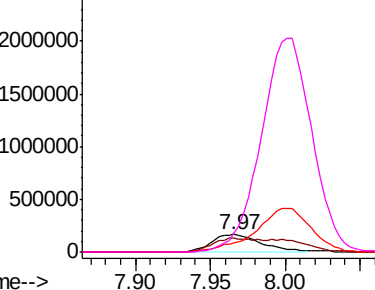
57 0.0 1015.2 1522.8#

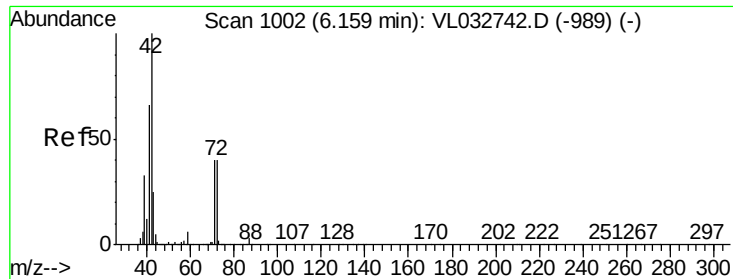
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





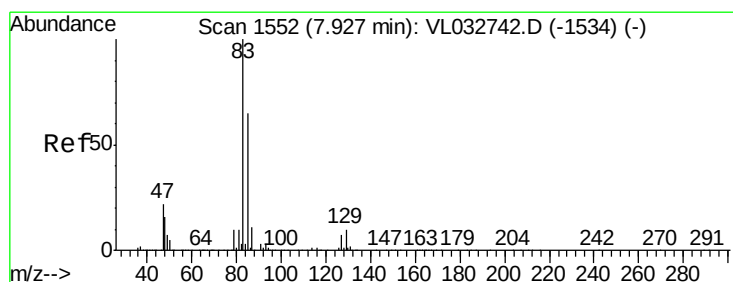
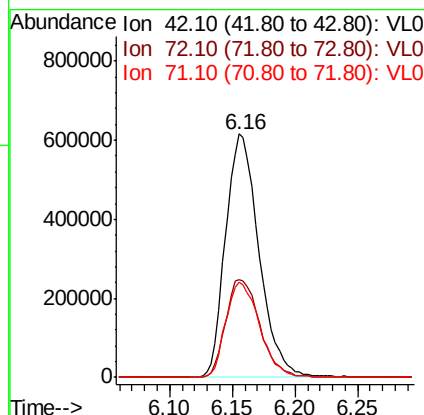
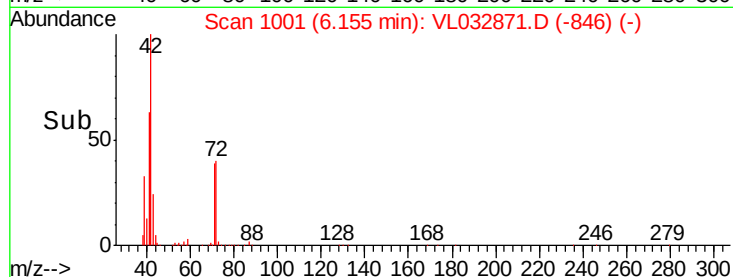
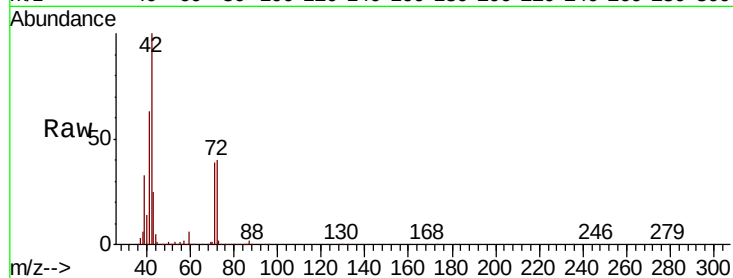
#41
Tetrahydrofuran
Concen: 11.246 ppbv
RT: 6.16 min Scan# 1001
Delta R.T. -0.00 min
Lab File: VL032871.D
Acq: 1 Dec 2018 5:25

Instrument :
MSVOA_L
ClientSampleId :
VL1130ABS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	41.4	32.4	48.6
71	39.5	31.6	47.4

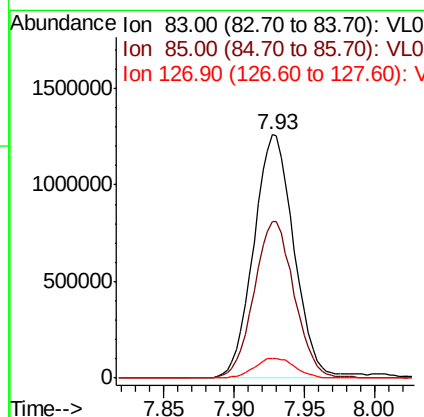
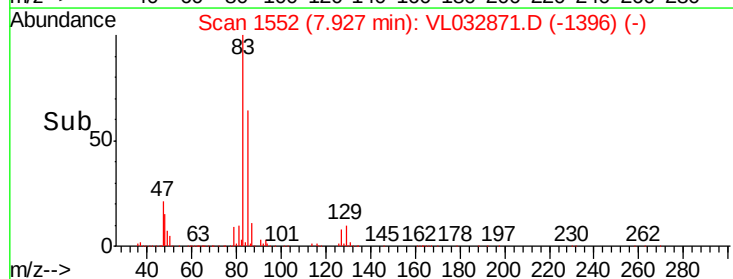
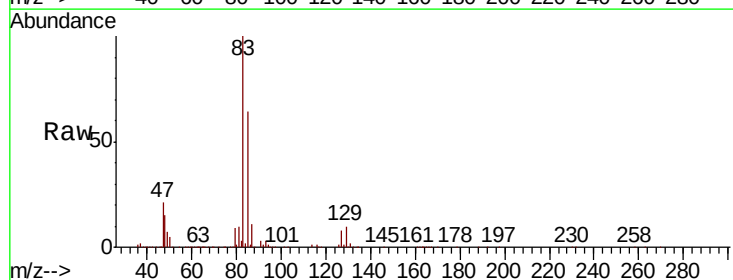
Manual Integrations
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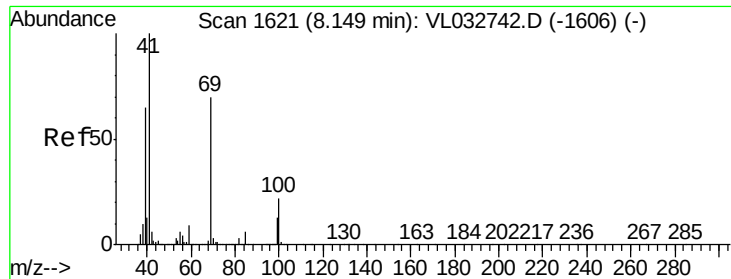
MMDadoda
12/3/2018 4:17:19 PM



#42
Bromodichloromethane
Concen: 10.148 ppbv
RT: 7.93 min Scan# 1552
Delta R.T. 0.00 min
Lab File: VL032871.D
Acq: 1 Dec 2018 5:25

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.1	51.8	77.8
127	8.2	5.9	8.9





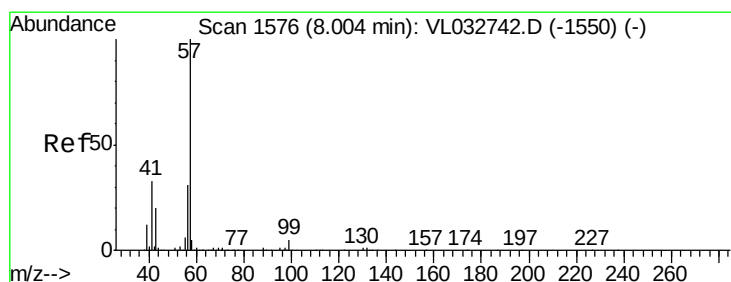
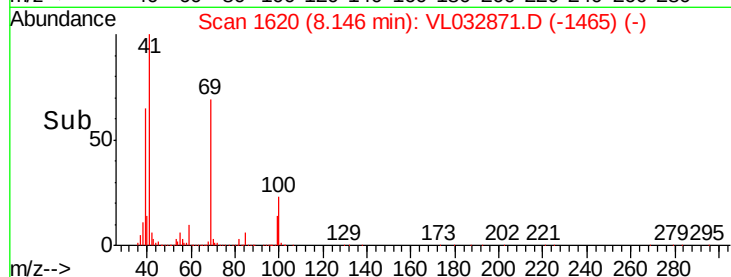
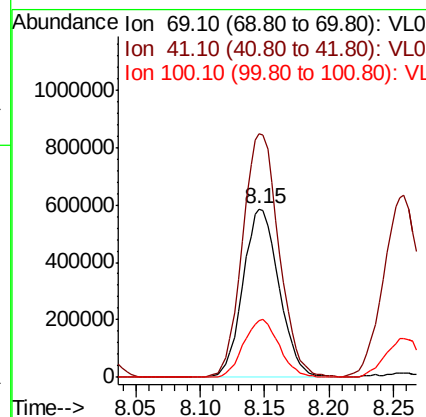
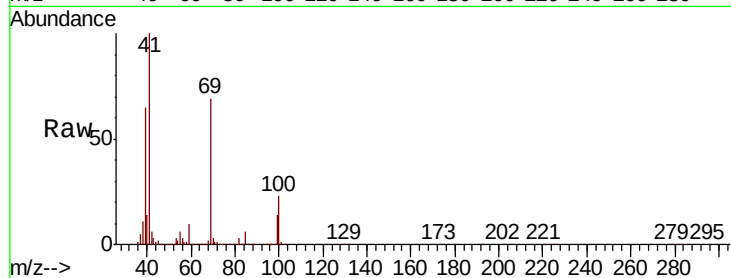
#43
Methyl Methacrylate
Concen: 11.295 ppbv
RT: 8.15 min Scan# 1620
Delta R.T. -0.00 min
Lab File: VL032871.D
Acq: 1 Dec 2018 5:25

Instrument :
MSVOA_L
ClientSampleId :
VL1130ABS01

Tot Ion: 69 Resp: 1140413
Ion Ratio Lower Upper
69 100
41 145.6 115.0 172.4
100 33.9 25.4 38.0

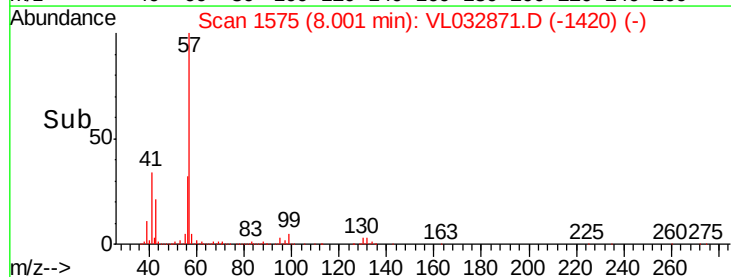
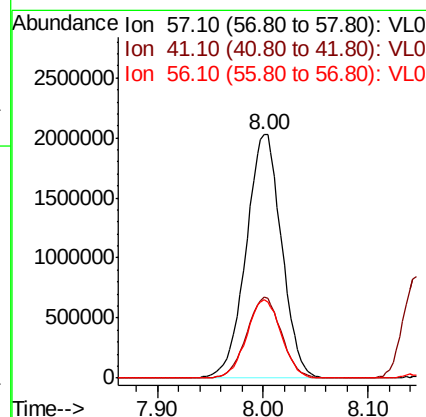
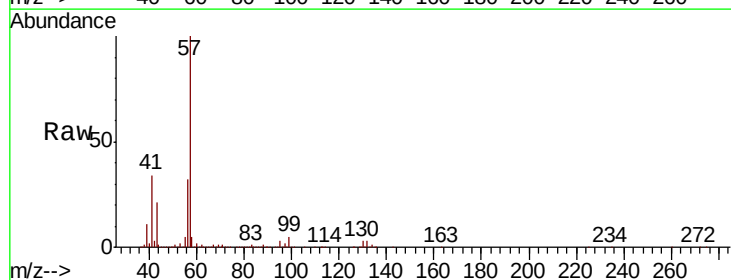
Manual Integrations
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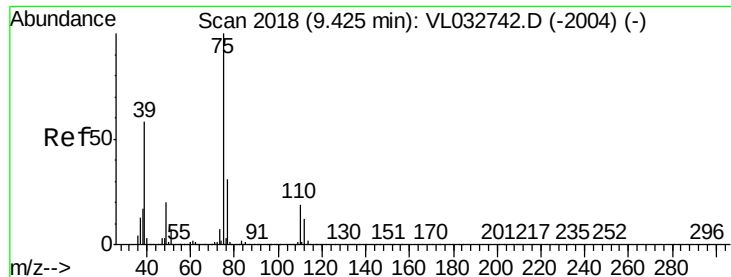
MMDadoda
12/3/2018 4:17:19 PM



#44
2,2,4-Trimethylpentane
Concen: 10.519 ppbv
RT: 8.00 min Scan# 1575
Delta R.T. -0.00 min
Lab File: VL032871.D
Acq: 1 Dec 2018 5:25

Tgt Ion: 57 Resp: 4754221
Ion Ratio Lower Upper
57 100
41 32.3 26.6 39.8
56 31.4 24.8 37.2





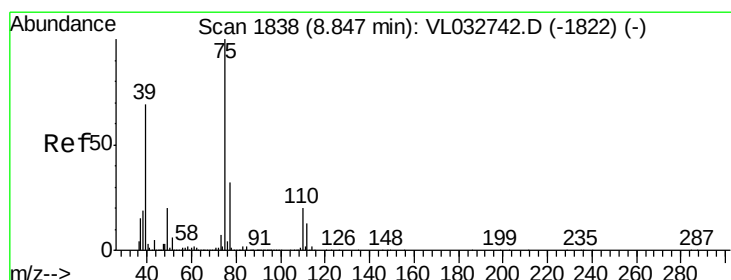
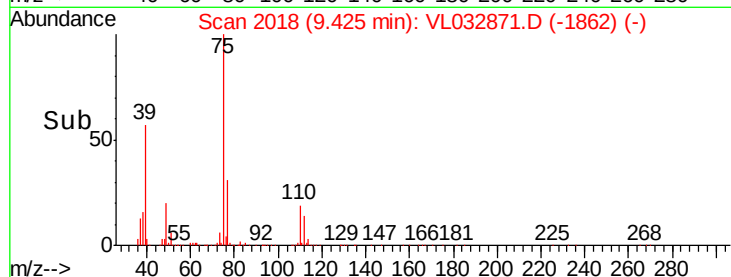
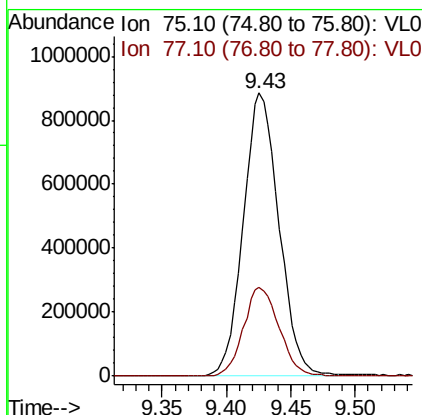
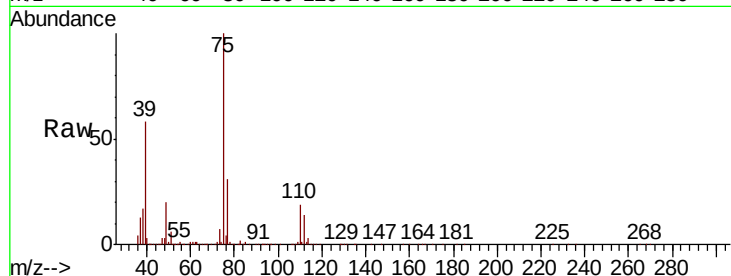
#45
t-1,3-Dichloropropene
Concen: 12.597 ppbv
RT: 9.43 min Scan# 2018
Delta R.T. 0.00 min
Lab File: VL032871.D
Acq: 1 Dec 2018 5:25

Instrument :
MSVOA_L
ClientSampleId :
VL1130ABS01

Tot Ion: 75 Resp: 1706704
Ion Ratio Lower Upper
75 100
77 31.2 24.6 36.8

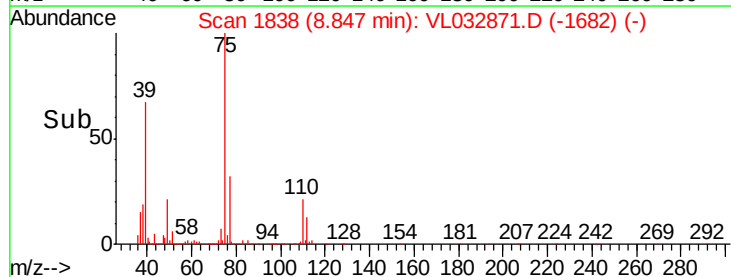
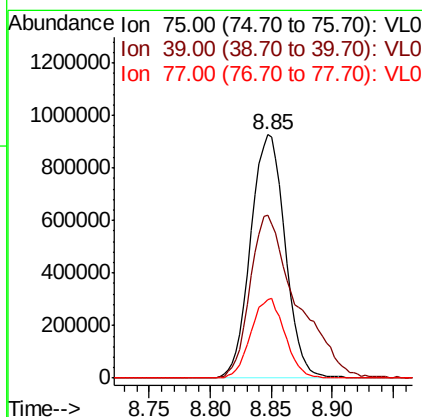
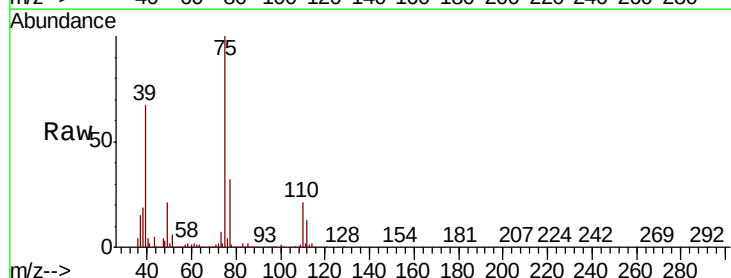
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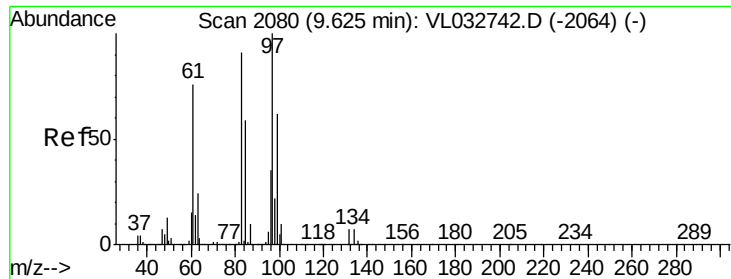
MMDadoda
12/3/2018 4:17:19 PM



#46
cis-1,3-Dichloropropene
Concen: 11.023 ppbv
RT: 8.85 min Scan# 1838
Delta R.T. 0.00 min
Lab File: VL032871.D
Acq: 1 Dec 2018 5:25

Tgt Ion: 75 Resp: 1804344
Ion Ratio Lower Upper
75 100
39 66.9 55.2 82.8
77 32.1 25.8 38.6





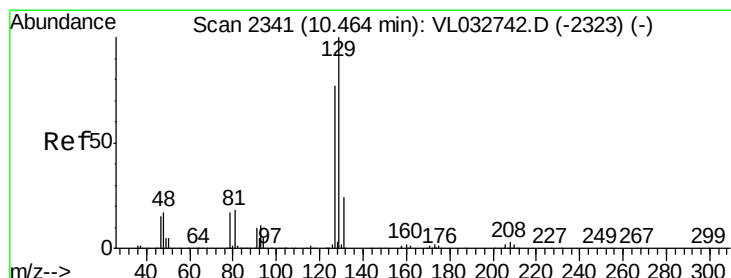
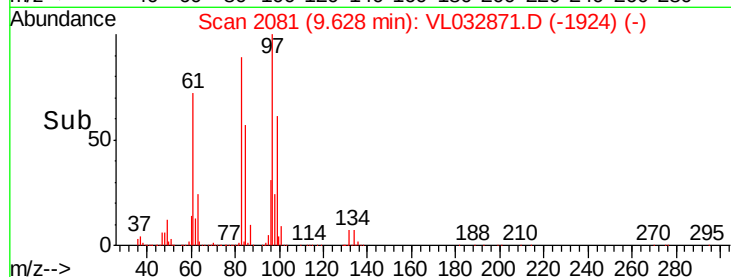
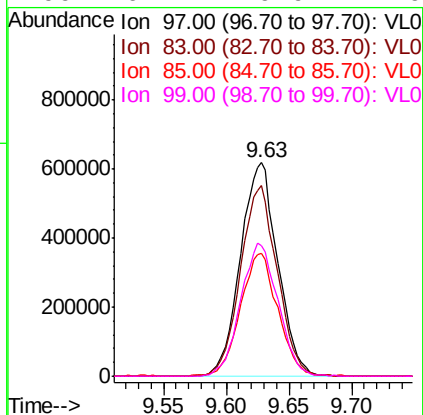
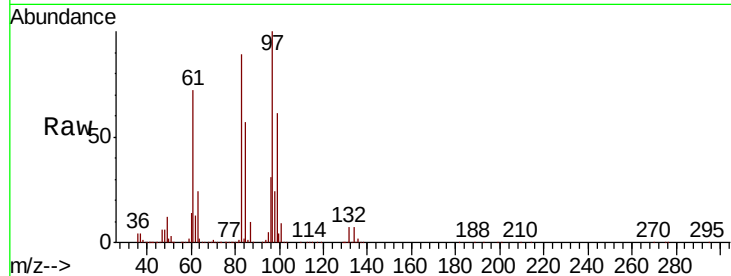
#47
 1,1,2-Trichloroethane
 Concen: 10.496 ppbv
 RT: 9.63 min Scan# 2081
 Delta R.T. 0.00 min
 Lab File: VL032871.D
 Acq: 1 Dec 2018 5:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1130ABS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	89.2	73.0	109.4
85	57.0	47.0	70.4
99	61.4	49.9	74.9

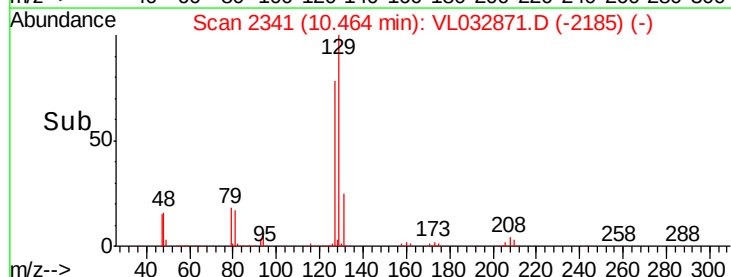
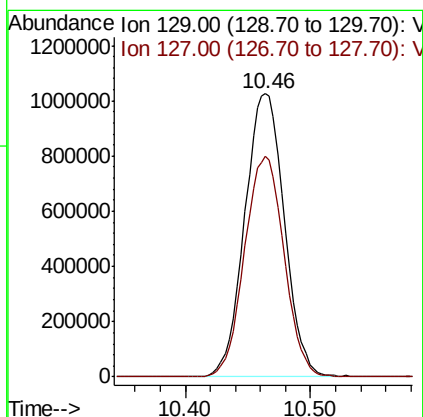
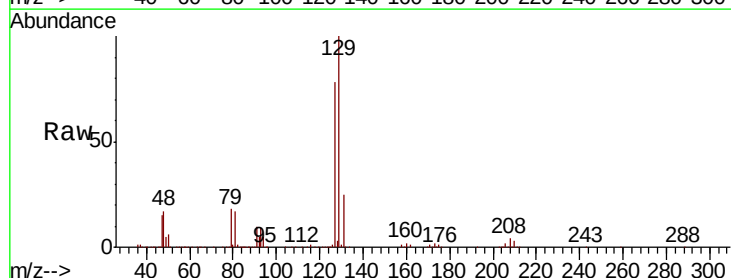
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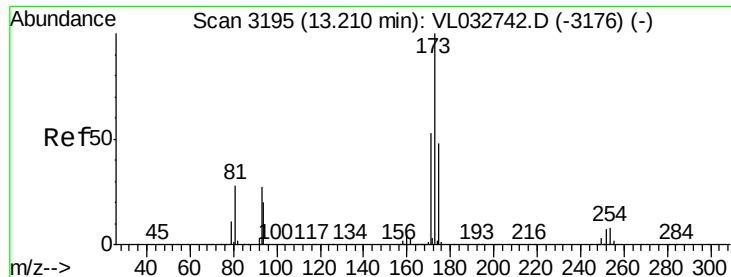
MMDadoda
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#48
 Dibromochloromethane
 Concen: 10.876 ppbv
 RT: 10.46 min Scan# 2341
 Delta R.T. 0.00 min
 Lab File: VL032871.D
 Acq: 1 Dec 2018 5:25

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.1	39.0	117.0





#49

Bromoform

Concen: 11.143 ppbv

RT: 13.21 min Scan# 3196

Delta R.T. 0.00 min

Lab File: VL032871.D

Acq: 1 Dec 2018 5:25

Instrument :

MSVOA_L

ClientSampleId :

VL1130ABS01

Tot Ion:173 Resp: 1905746

Ion Ratio Lower Upper

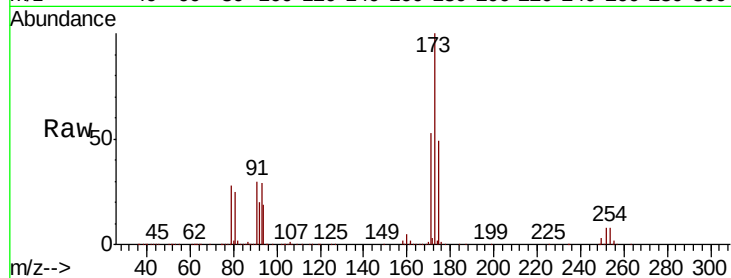
173 100

175 49.0 39.4 59.0

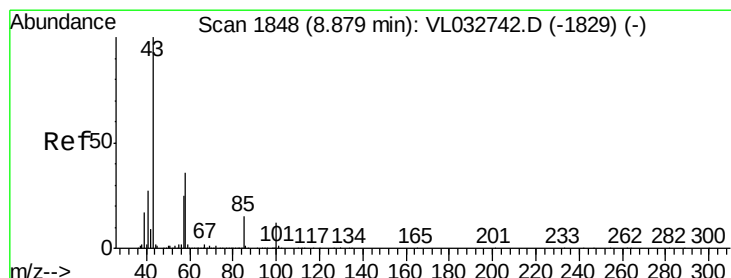
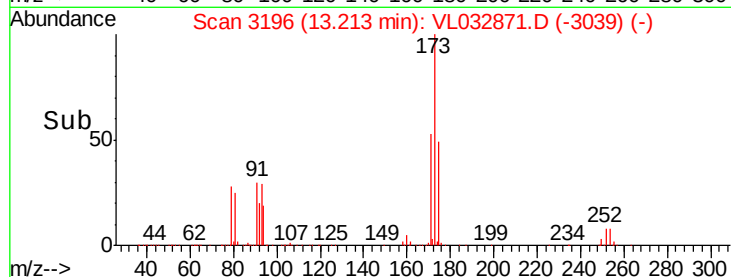
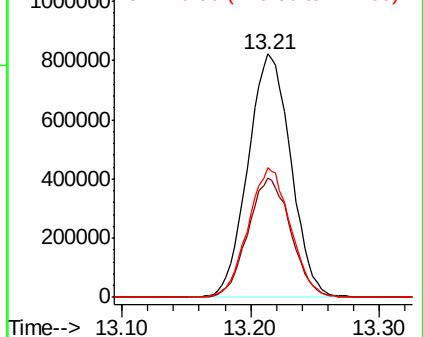
171 52.6 42.0 63.0

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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: 10.113 ppbv

RT: 8.88 min Scan# 1849

Delta R.T. 0.00 min

Lab File: VL032871.D

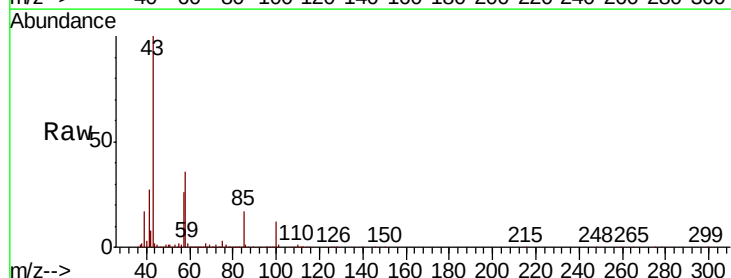
Acq: 1 Dec 2018 5:25

Tgt Ion: 43 Resp: 2782414

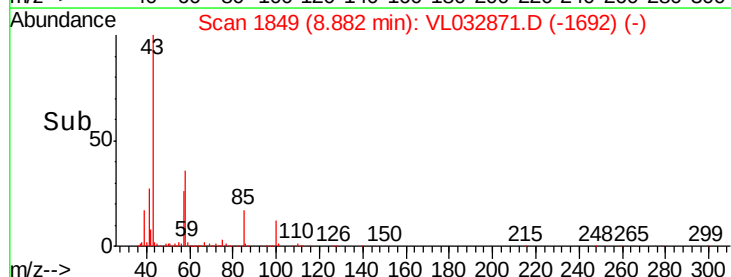
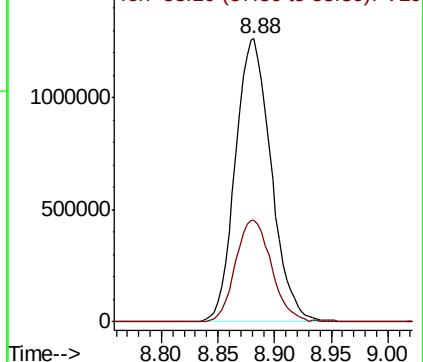
Ion Ratio Lower Upper

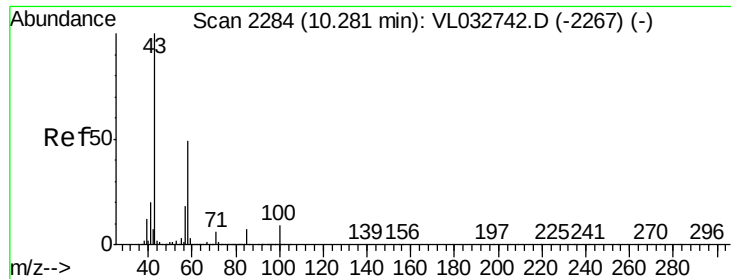
43 100

58 36.3 28.8 43.2



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





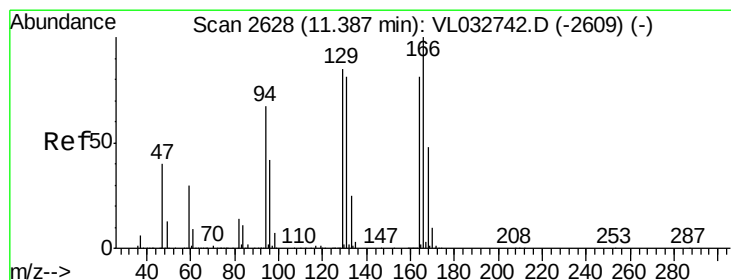
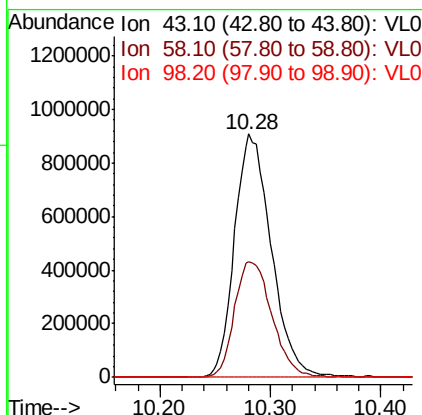
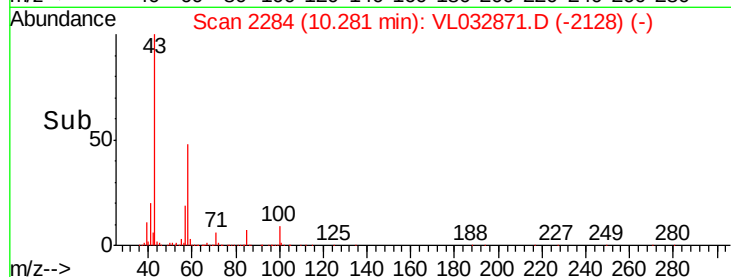
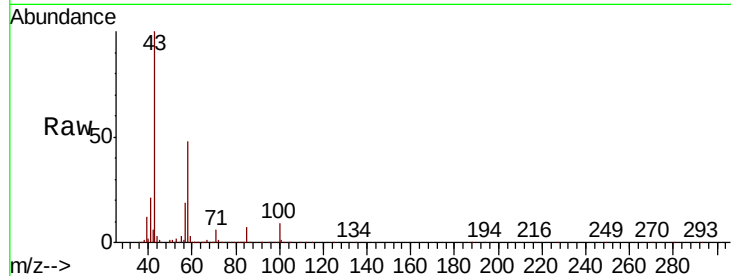
#51
2-Hexanone
Concen: 11.841 ppbv
RT: 10.28 min Scan# 2284
Delta R.T. 0.00 min
Lab File: VL032871.D
Acq: 1 Dec 2018 5:25

Instrument :
MSVOA_L
ClientSampleId :
VL1130ABS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.7	38.9	58.3
98	0.3	0.2	0.4

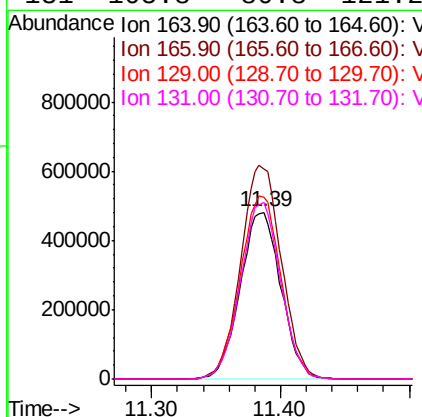
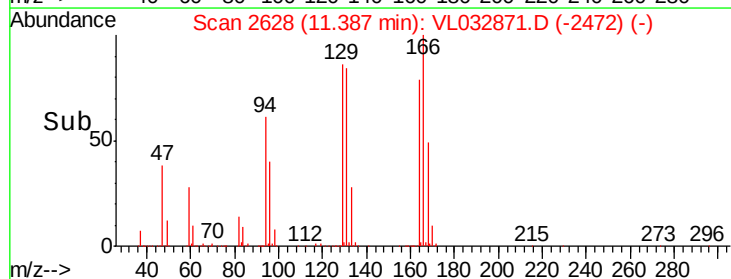
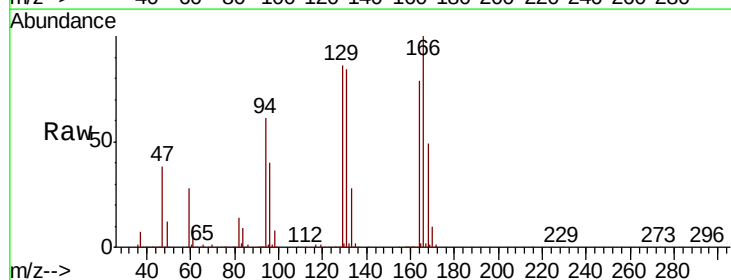
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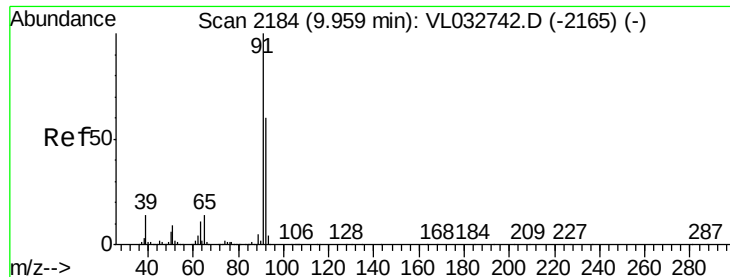
MMDadoda
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#52
Tetrachloroethene
Concen: 11.235 ppbv
RT: 11.39 min Scan# 2628
Delta R.T. 0.00 min
Lab File: VL032871.D
Acq: 1 Dec 2018 5:25

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.9	99.3	148.9
129	108.8	83.9	125.9
131	105.8	80.8	121.2





#53

Toluene

Concen: 12.041 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. -0.00 min

Lab File: VL032871.D

Acq: 1 Dec 2018 5:25

Instrument :

MSVOA_L

ClientSampleId :

VL1130ABS01

Tot Ion: 91 Resp: 3397440

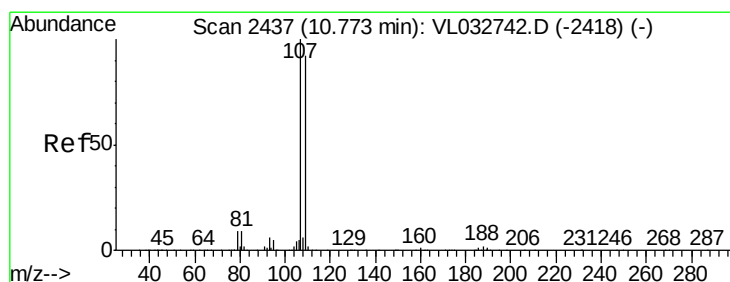
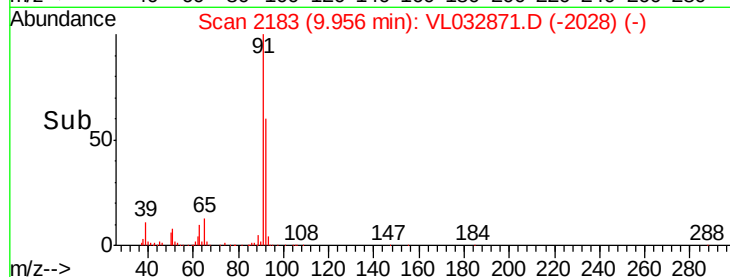
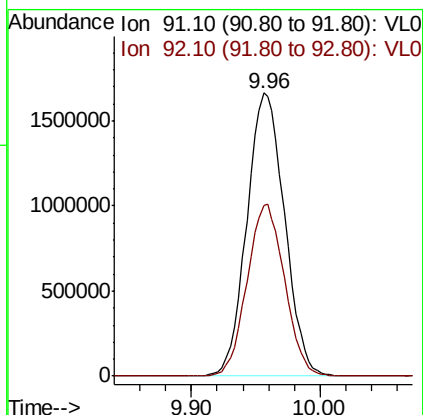
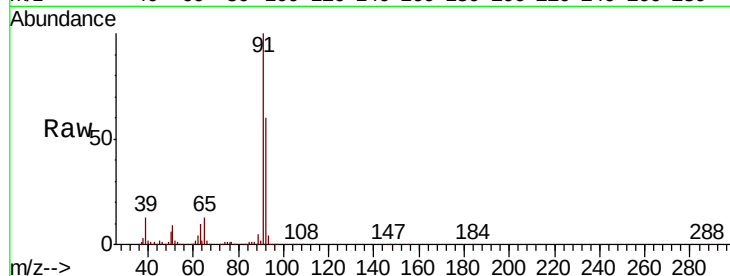
Ion Ratio Lower Upper

91 100

92 60.2 47.9 71.9

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12/3/2018 4:17:19 PM



#54

1,2-Dibromoethane

Concen: 11.070 ppbv

RT: 10.77 min Scan# 2437

Delta R.T. 0.00 min

Lab File: VL032871.D

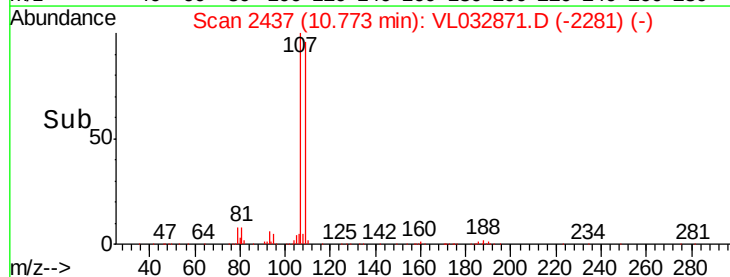
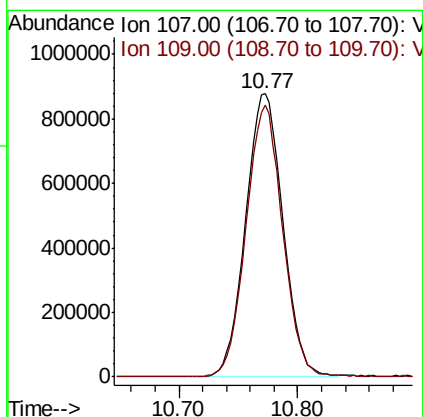
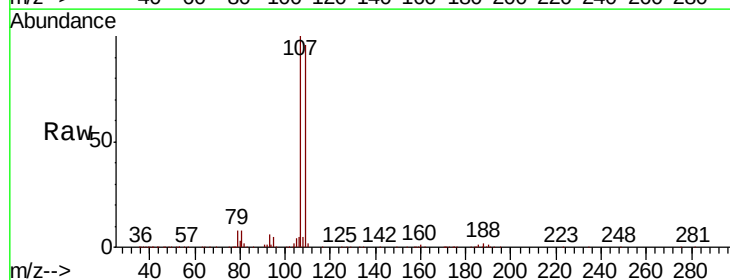
Acq: 1 Dec 2018 5:25

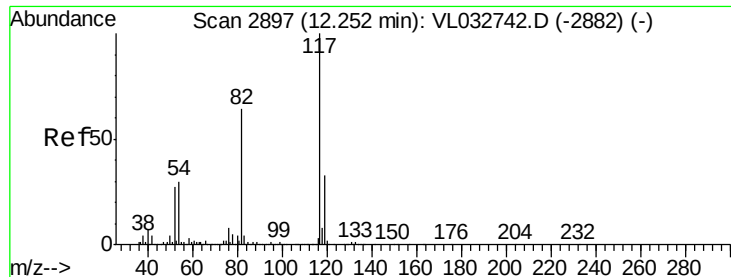
Tgt Ion: 107 Resp: 1906634

Ion Ratio Lower Upper

107 100

109 96.3 73.8 110.8





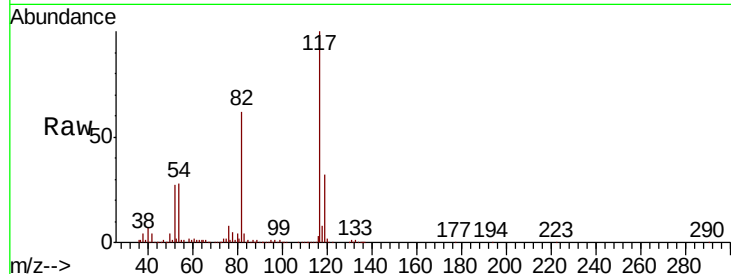
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.25 min Scan# 2897
Delta R.T. 0.00 min
Lab File: VL032871.D
Acq: 1 Dec 2018 5:25

Instrument :
MSVOA_L
ClientSampleId :
VL1130ABS01

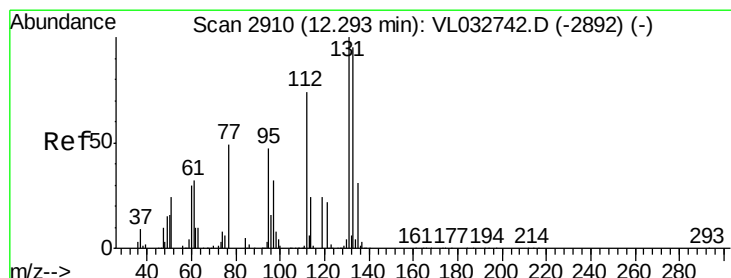
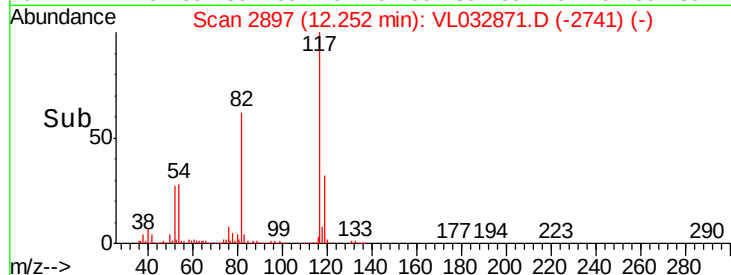
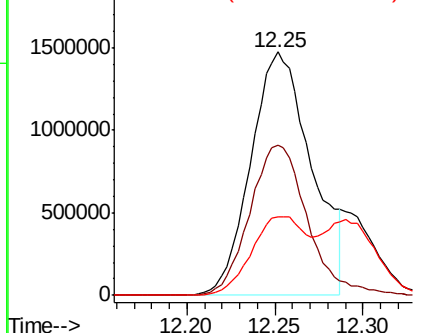
Tot Ion:117 Resp: 3558698
Ion Ratio Lower Upper
117 100
82 58.7 51.0 76.6
119 30.9 28.0 42.0

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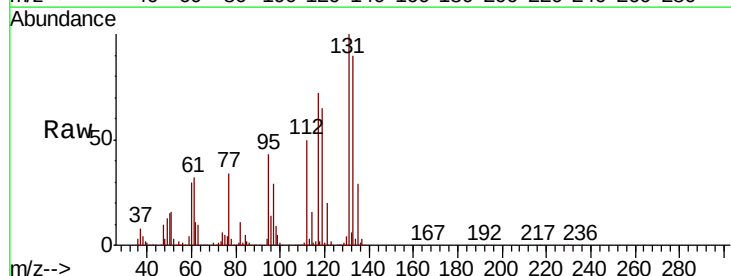


Abundance Ion 117.10 (116.80 to 117.80): V
2000000
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

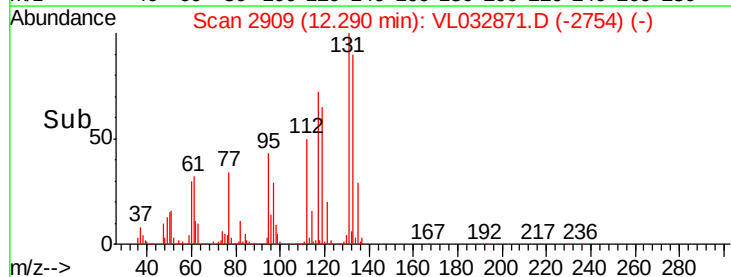
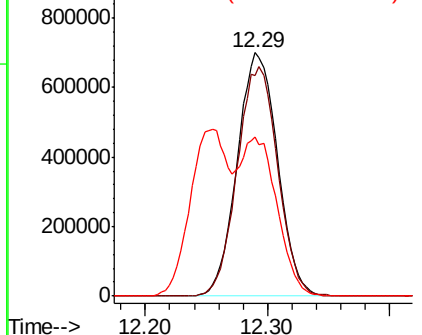


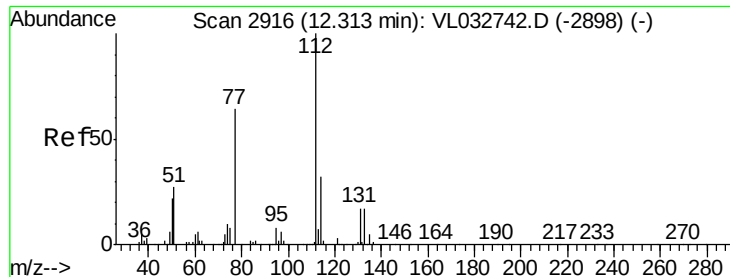
#56
1,1,1,2-Tetrachloroethane
Concen: 9.594 ppbv
RT: 12.29 min Scan# 2909
Delta R.T. -0.00 min
Lab File: VL032871.D
Acq: 1 Dec 2018 5:25

Tgt Ion:131 Resp: 1592490
Ion Ratio Lower Upper
131 100
133 95.3 75.8 113.6
119 57.9 45.2 67.8



Abundance Ion 131.00 (130.70 to 131.70): V
800000
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 9.614 ppbv

RT: 12.31 min Scan# 2916

Delta R.T. 0.00 min

Lab File: VL032871.D

Acq: 1 Dec 2018 5:25

Instrument :

MSVOA_L

ClientSampleId :

VL1130ABS01

Tot Ion:112 Resp: 2619016

Ion Ratio Lower Upper

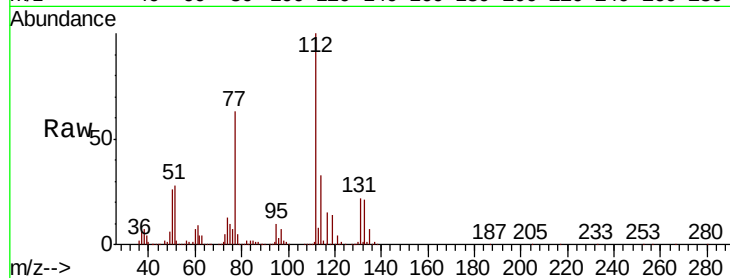
112 100

77 63.0 52.3 78.5

114 32.9 28.4 34.8

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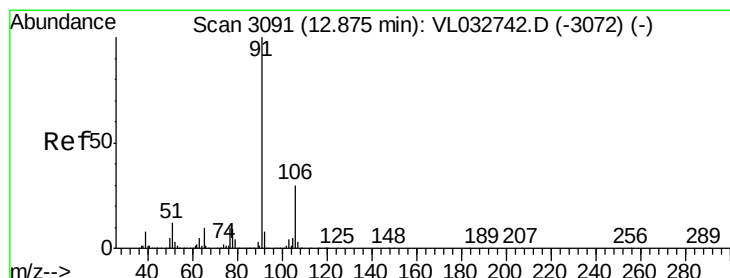
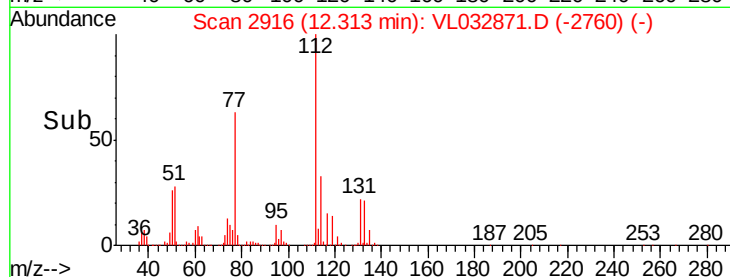
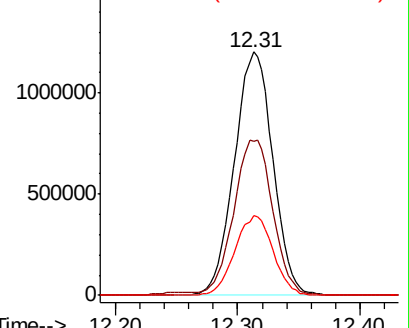
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 10.861 ppbv

RT: 12.88 min Scan# 3091

Delta R.T. 0.00 min

Lab File: VL032871.D

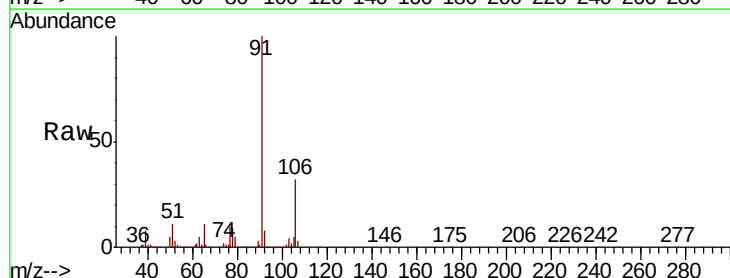
Acq: 1 Dec 2018 5:25

Tgt Ion: 91 Resp: 4651424

Ion Ratio Lower Upper

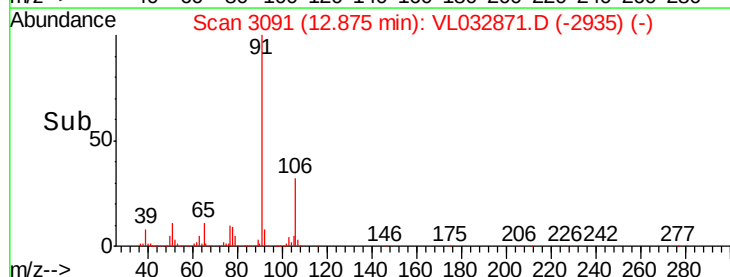
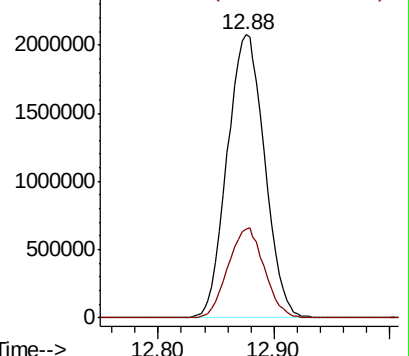
91 100

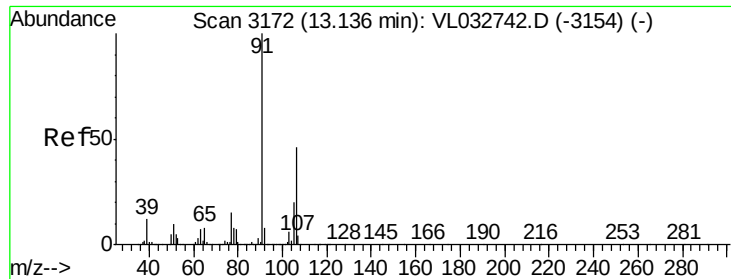
106 31.5 23.6 35.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





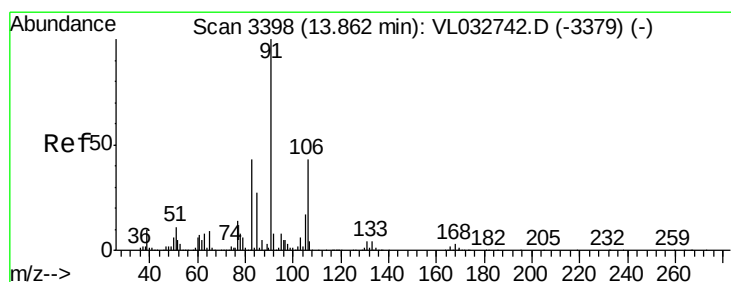
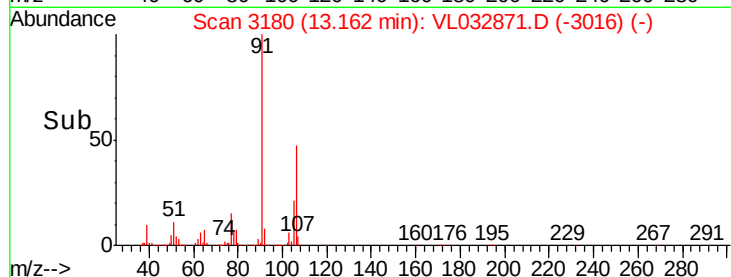
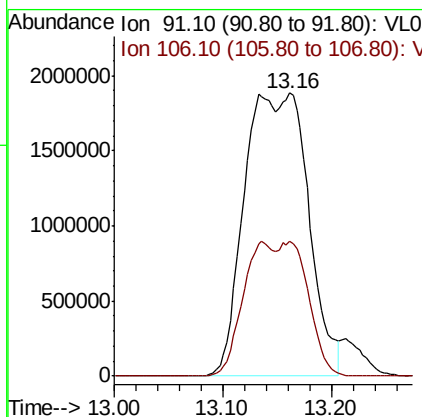
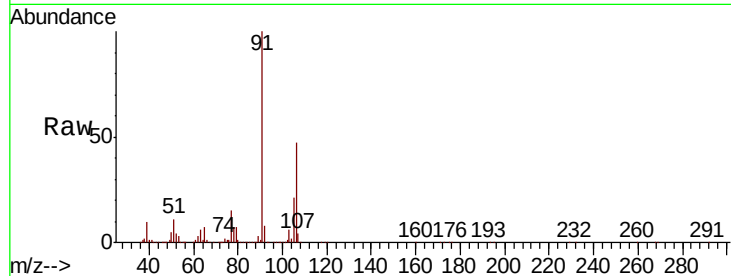
#59
m/p-Xylene
Concen: 20.159 ppbv m
RT: 13.16 min Scan# 3180
Delta R.T. 0.03 min
Lab File: VL032871.D
Acq: 1 Dec 2018 5:25

Instrument :
MSVOA_L
ClientSampleId :
VL1130ABS01

Tot Ion: 91 Resp: 7685846
Ion Ratio Lower Upper
91 100
106 46.4 36.1 54.1

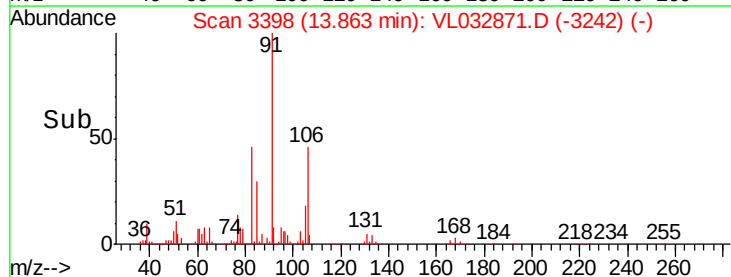
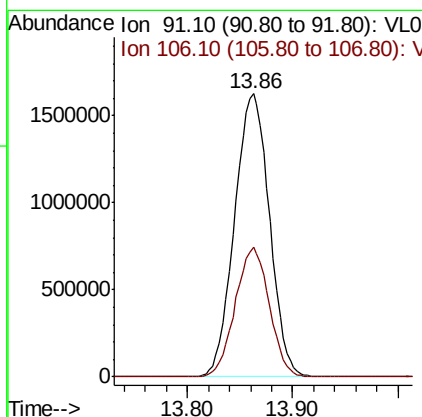
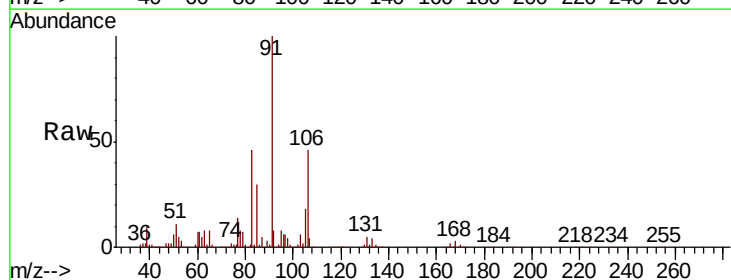
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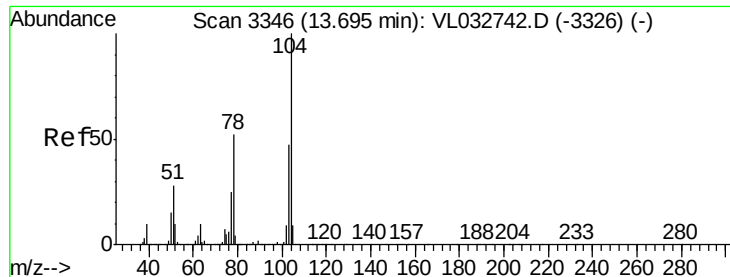
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#60
o-Xylene
Concen: 9.750 ppbv
RT: 13.86 min Scan# 3398
Delta R.T. 0.00 min
Lab File: VL032871.D
Acq: 1 Dec 2018 5:25

Tgt Ion: 91 Resp: 3737863
Ion Ratio Lower Upper
91 100
106 44.6 21.9 65.7





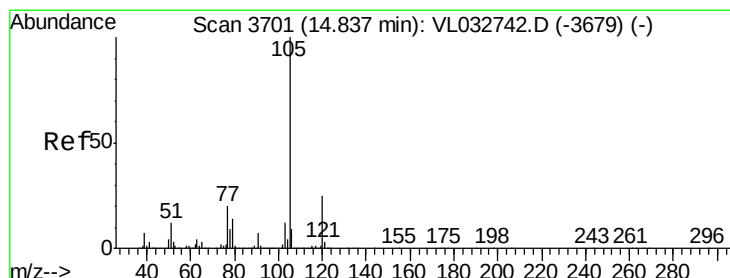
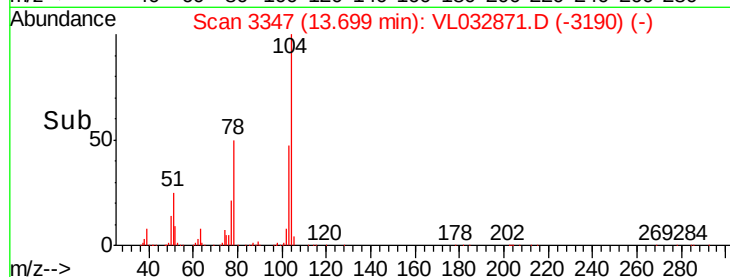
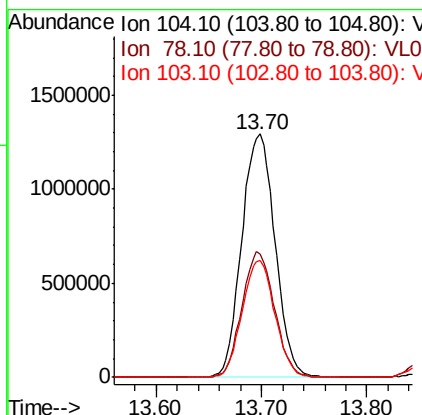
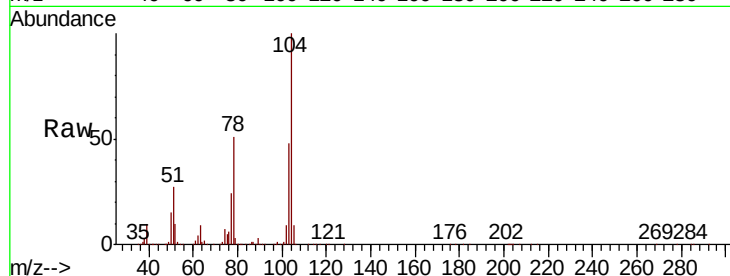
#61
Stvrene
Concen: 11.387 ppbv
RT: 13.70 min Scan# 3347
Delta R.T. 0.00 min
Lab File: VL032871.D
Acq: 1 Dec 2018 5:25

Instrument :
MSVOA_L
ClientSampleId :
VL1130ABS01

Tot Ion	Ratio	Lower	Upper
104	100		
78	50.5	42.2	63.4
103	47.5	38.2	57.2

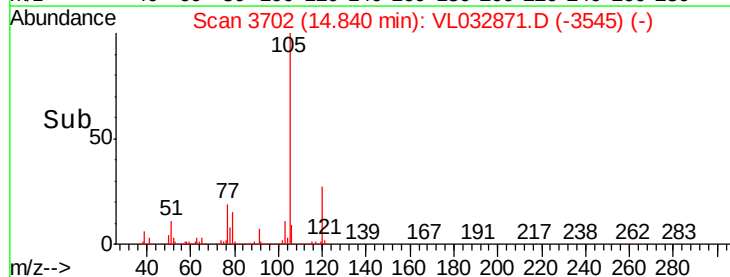
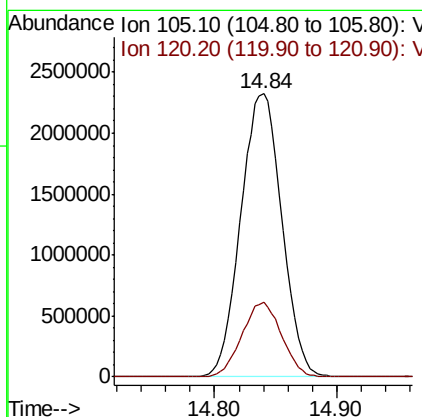
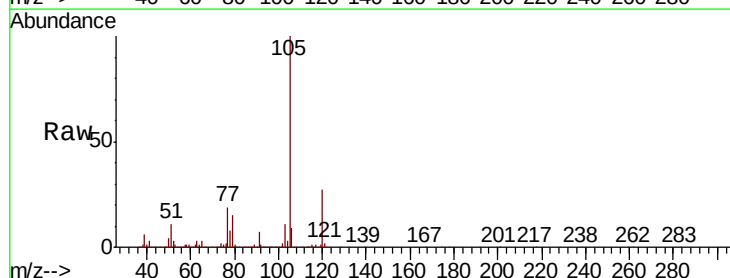
Manual Integrations
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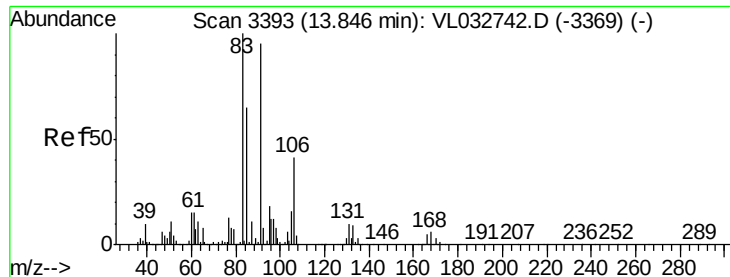
MMDadoda
12/3/2018 4:17:19 PM



#62
Isopropylbenzene
Concen: 10.423 ppbv
RT: 14.84 min Scan# 3702
Delta R.T. 0.00 min
Lab File: VL032871.D
Acq: 1 Dec 2018 5:25

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.5	20.1	30.1





#63

1,1,2,2-Tetrachloroethane

Concen: 8.667 ppbv

RT: 13.85 min Scan# 3394

Delta R.T. 0.00 min

Lab File: VL032871.D

Acq: 1 Dec 2018 5:25

Instrument :

MSVOA_L

ClientSampleId :

VL1130ABS01

Tot Ion: 83 Resp: 2590112

Ion Ratio Lower Upper

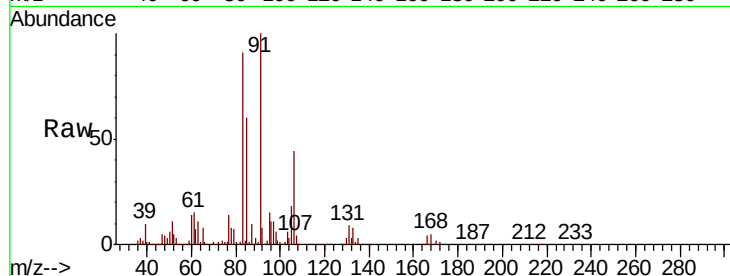
83 100

131 10.1 4.7 14.1

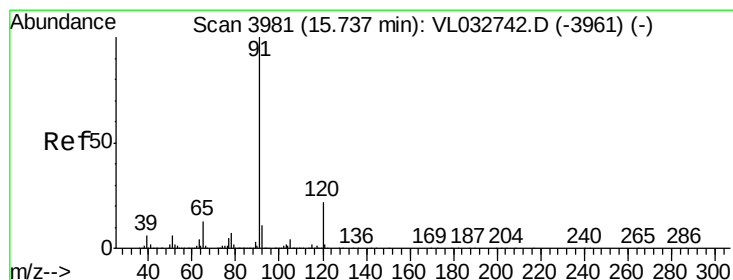
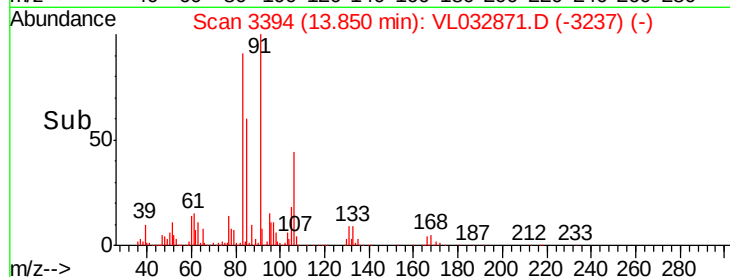
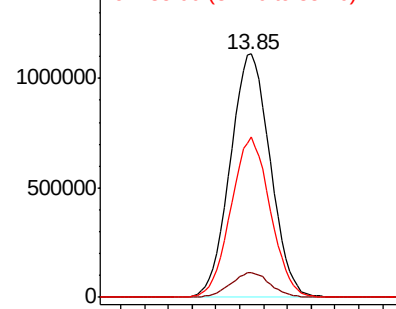
85 65.0 32.5 97.4

Manual Integrations
APPROVED

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12/3/2018 4:17:19 PM



Abundance Ion 83.00 (82.70 to 83.70): VL0
1500000 Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 10.086 ppbv

RT: 15.74 min Scan# 3981

Delta R.T. 0.00 min

Lab File: VL032871.D

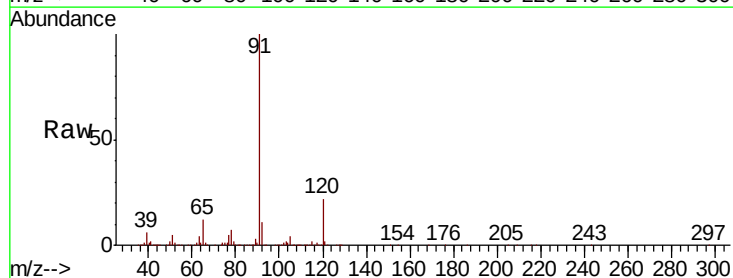
Acq: 1 Dec 2018 5:25

Tgt Ion:120 Resp: 1374710

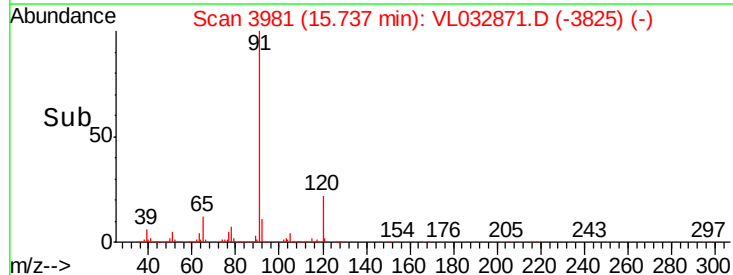
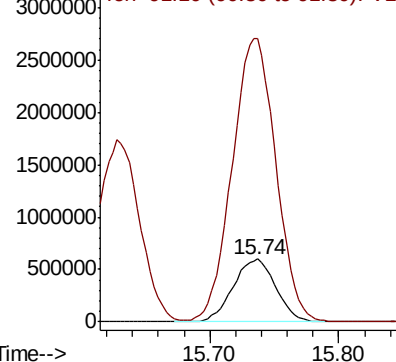
Ion Ratio Lower Upper

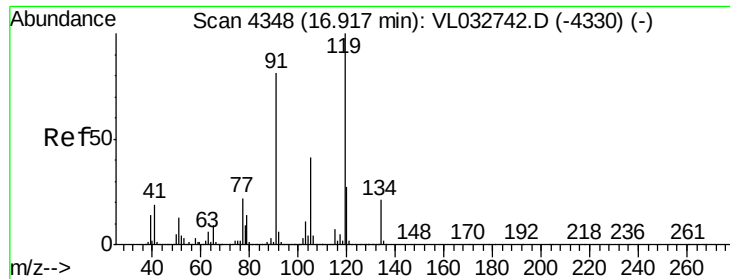
120 100

91 464.8 381.7 572.5



Abundance Ion 120.20 (119.90 to 120.90): V
3000000 Ion 91.10 (90.80 to 91.80): VL0





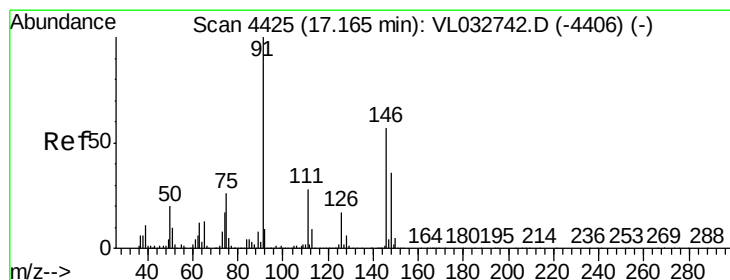
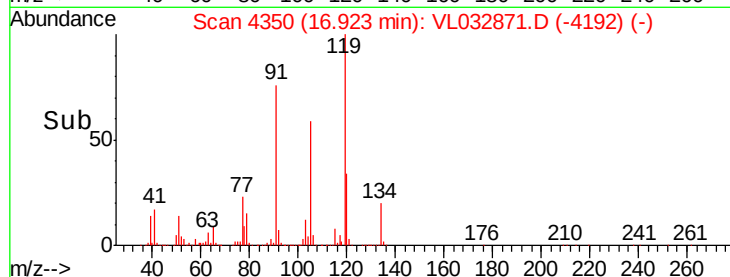
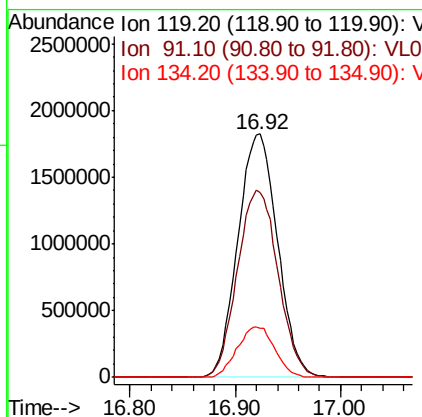
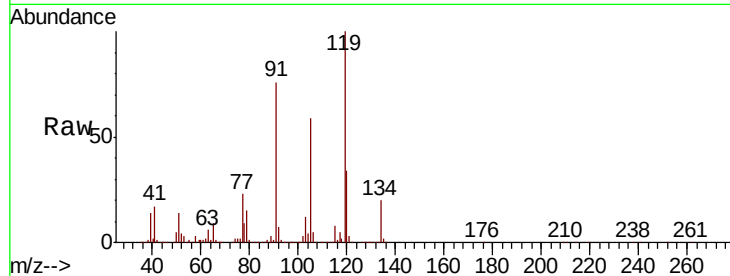
#65
 tert-Butylbenzene
 Concen: 10.253 ppbv
 RT: 16.92 min Scan# 4350
 Delta R.T. 0.01 min
 Lab File: VL032871.D
 Acq: 1 Dec 2018 5:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1130ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	79.2	65.6	98.4
134	19.8	15.9	23.9

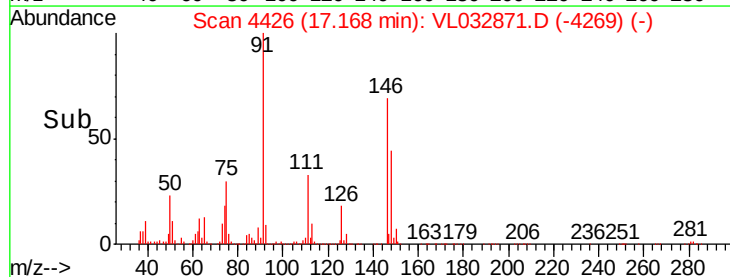
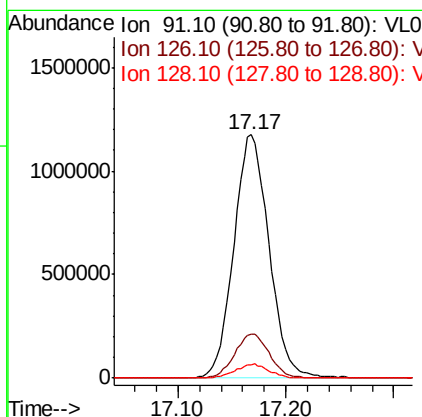
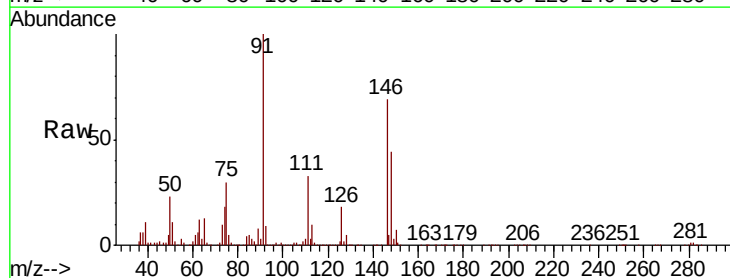
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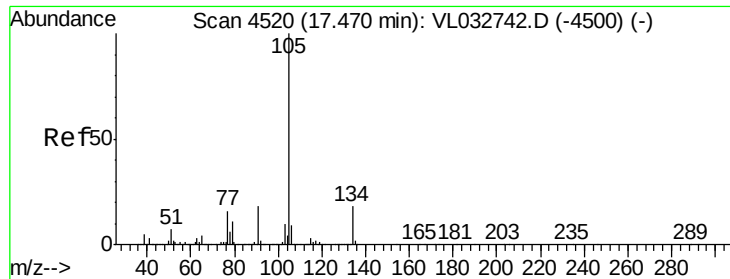
MMDadoda
 12/3/2018 4:17:19 PM



#66
 Benzyl Chloride
 Concen: 10.388 ppbv
 RT: 17.17 min Scan# 4426
 Delta R.T. 0.00 min
 Lab File: VL032871.D
 Acq: 1 Dec 2018 5:25

Tgt Ion	Ratio	Lower	Upper
91	100		
126	18.0	14.2	21.2
128	5.6	4.5	6.7





#67

sec-Butylbenzene

Concen: 9.954 ppbv

RT: 17.47 min Scan# 4520

Delta R.T. 0.00 min

Lab File: VL032871.D

Acq: 1 Dec 2018 5:25

Instrument :

MSVOA_L

ClientSampleId :

VL1130ABS01

Tot Ion: 105 Resp: 6663686

Ion Ratio Lower Upper

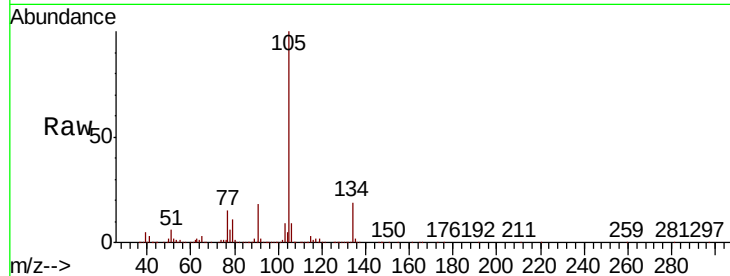
105 100

134 18.4 14.6 21.8

Manual Integrations
APPROVED

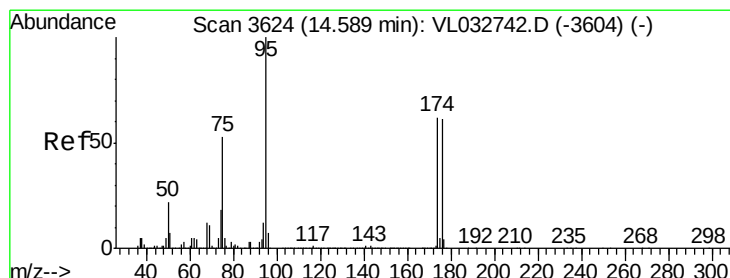
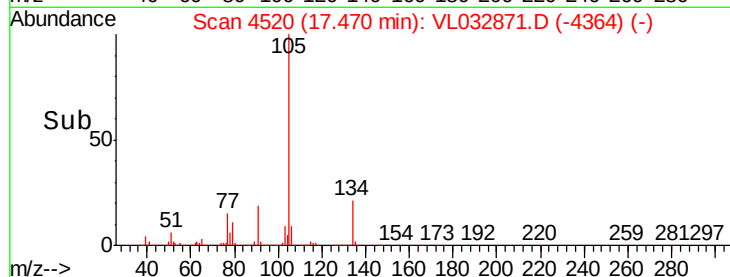
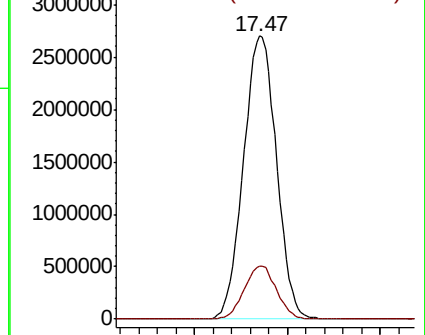
MMDadoda

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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: 9.528 ppbv

RT: 14.59 min Scan# 3624

Delta R.T. 0.00 min

Lab File: VL032871.D

Acq: 1 Dec 2018 5:25

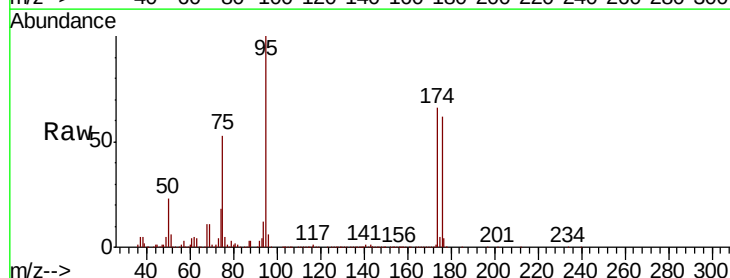
Tgt Ion: 95 Resp: 2536080

Ion Ratio Lower Upper

95 100

174 64.8 50.7 76.1

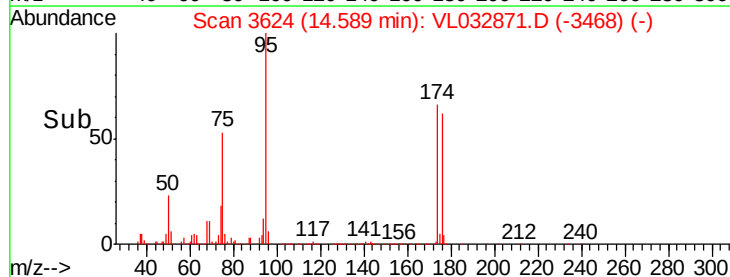
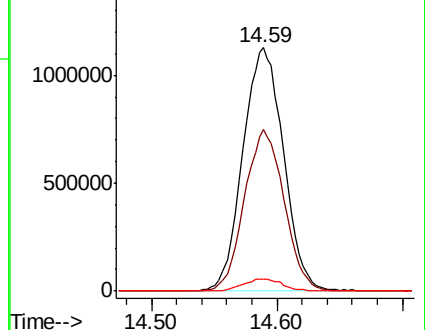
175 4.8 3.8 5.6

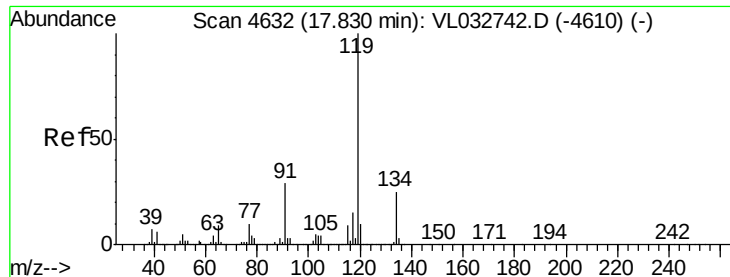


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





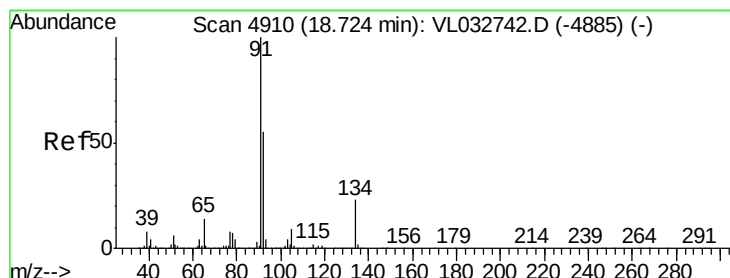
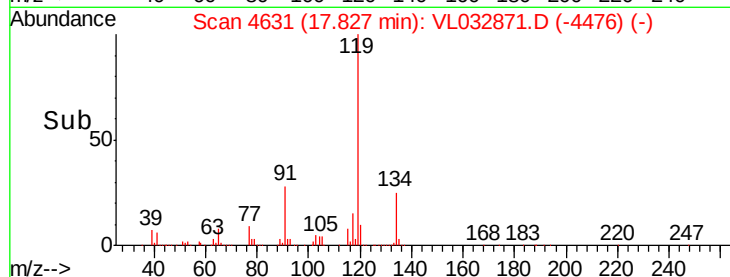
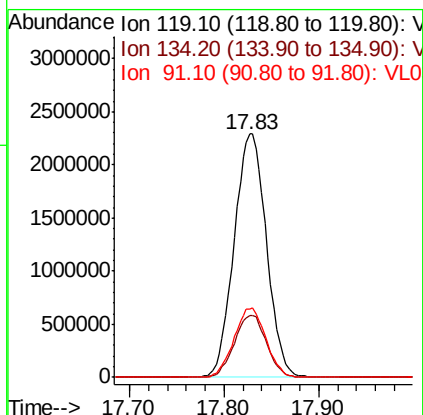
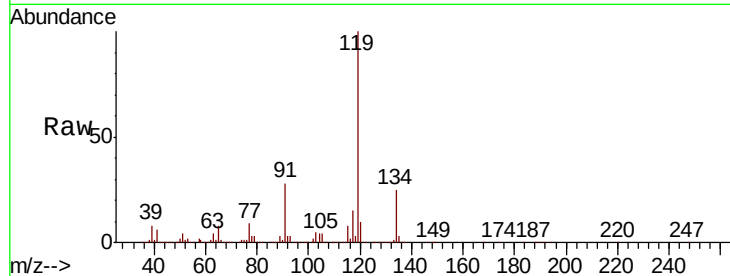
#69
 p-Isopropyltoluene
 Concen: 10.193 ppbv
 RT: 17.83 min Scan# 4631
 Delta R.T. -0.00 min
 Lab File: VL032871.D
 Acq: 1 Dec 2018 5:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1130ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.5	20.2	30.4
91	28.3	23.5	35.3

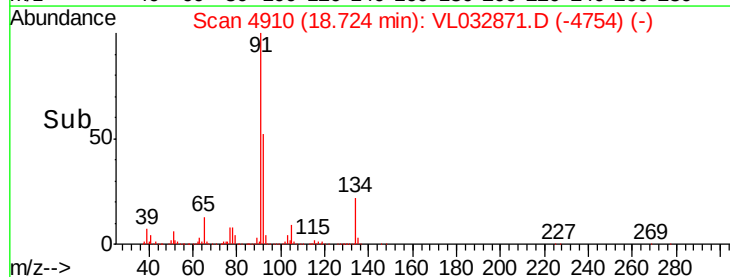
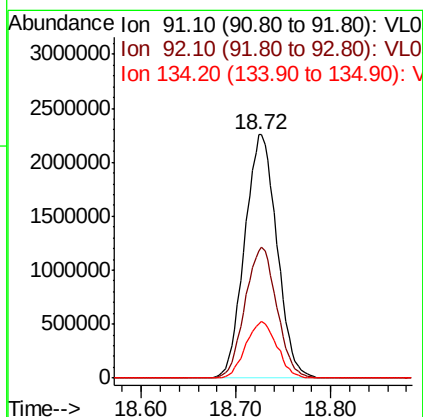
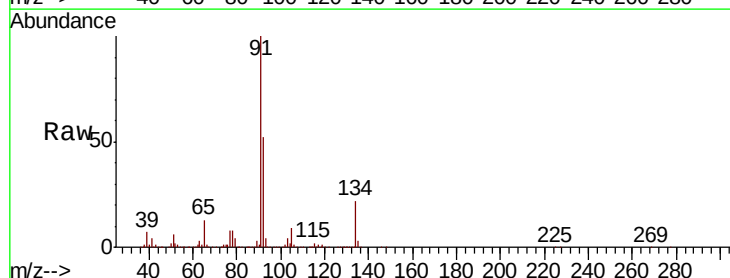
Manual Integrations
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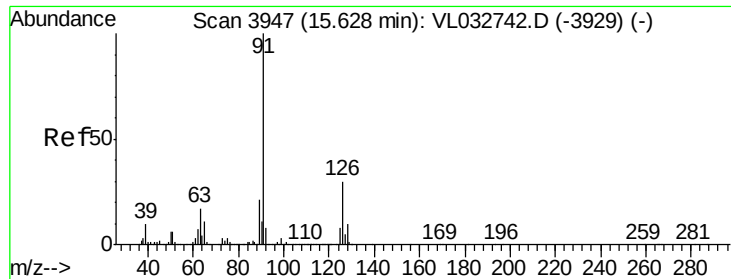
MMDadoda
 12/3/2018 4:17:19 PM



#70
 n-Butylbenzene
 Concen: 9.858 ppbv
 RT: 18.72 min Scan# 4910
 Delta R.T. 0.00 min
 Lab File: VL032871.D
 Acq: 1 Dec 2018 5:25

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.2	42.9	64.3
134	22.7	17.8	26.8





#71

2-Chlorotoluene

Concen: 10.181 ppbv

RT: 15.63 min Scan# 3947

Delta R.T. 0.00 min

Lab File: VL032871.D

Acq: 1 Dec 2018 5:25

Instrument :

MSVOA_L

ClientSampleId :

VL1130ABS01

Tot Ion: 91 Resp: 3934348

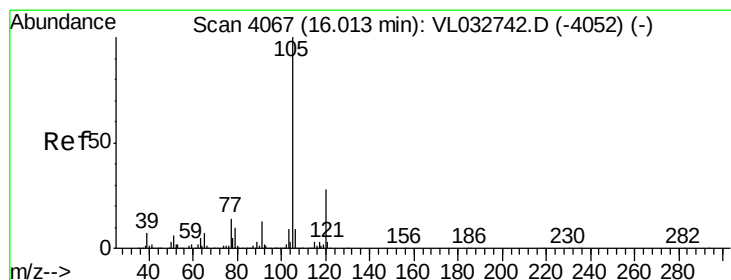
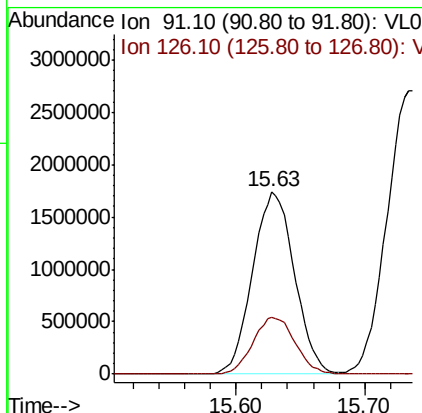
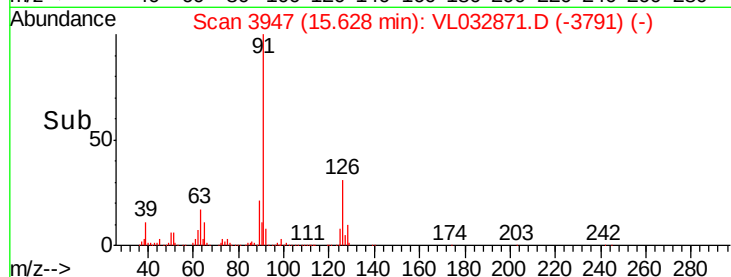
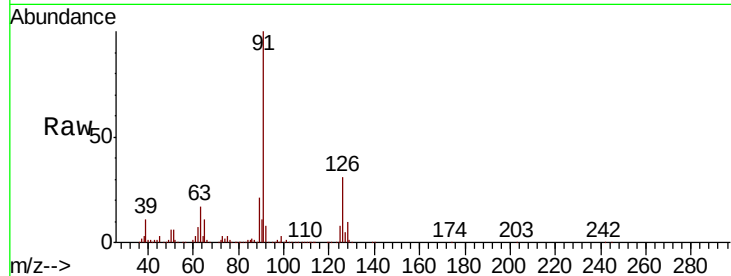
Ion Ratio Lower Upper

91 100

126 31.4 12.1 48.5

Manual Integrations
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12/3/2018 4:17:19 PM



#72

4-Ethyltoluene

Concen: 10.319 ppbv

RT: 16.02 min Scan# 4068

Delta R.T. 0.00 min

Lab File: VL032871.D

Acq: 1 Dec 2018 5:25

Tgt Ion:105 Resp: 4336172

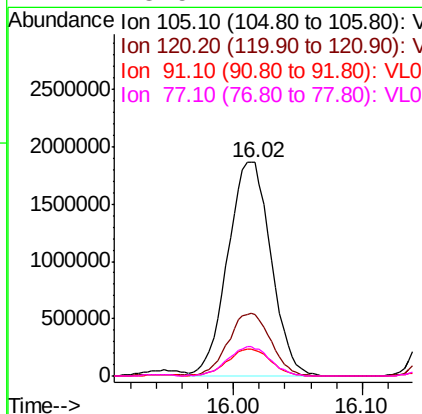
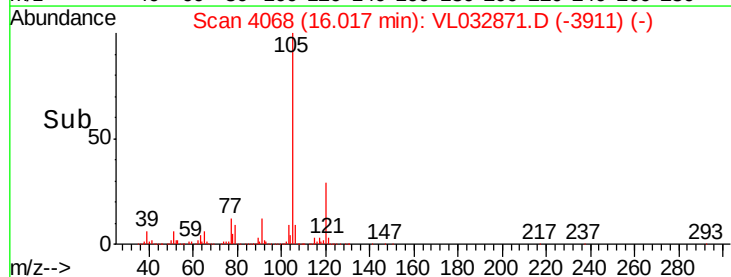
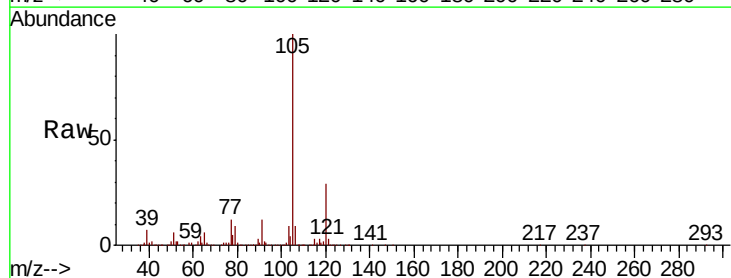
Ion Ratio Lower Upper

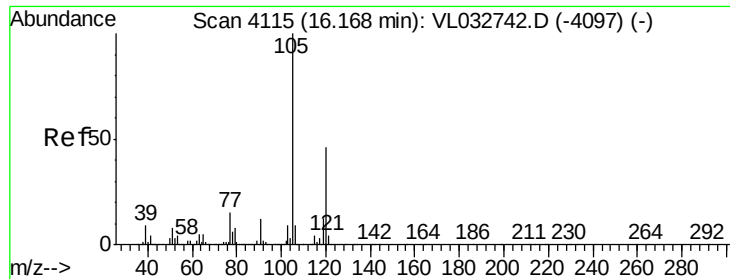
105 100

120 28.9 22.9 34.3

91 12.7 10.6 15.8

77 13.5 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 10.031 ppbv

RT: 16.17 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VL032871.D

Acq: 1 Dec 2018 5:25

Instrument :

MSVOA_L

ClientSampleId :

VL1130ABS01

Tot Ion:105 Resp: 4121069

Ion Ratio Lower Upper

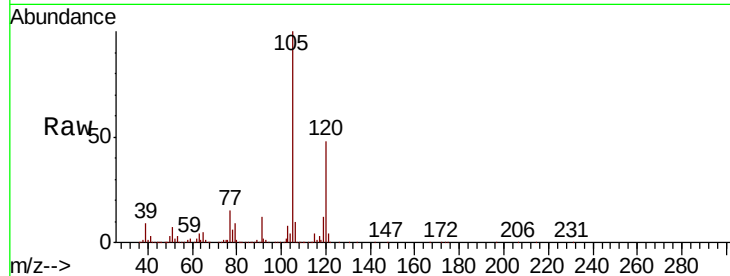
105 100

120 47.6 36.6 55.0

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

Ion 120.20 (119.90 to 120.90): V

16.17

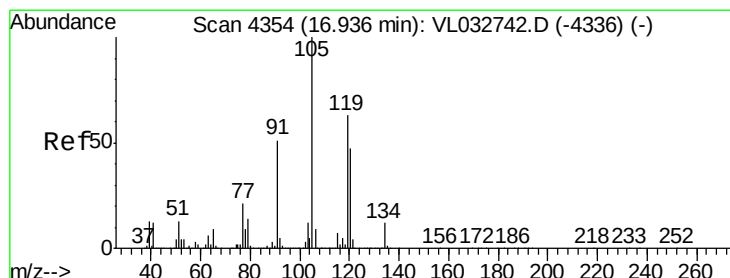
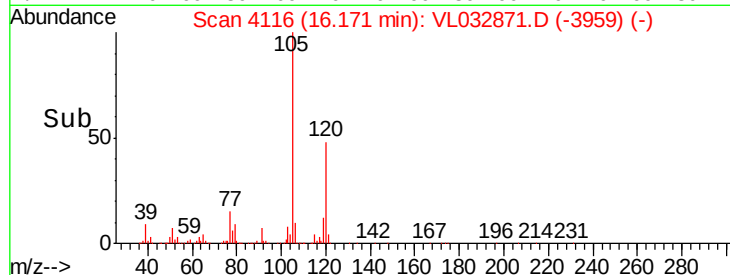
1500000

1000000

500000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 9.490 ppbv

RT: 16.94 min Scan# 4355

Delta R.T. 0.00 min

Lab File: VL032871.D

Acq: 1 Dec 2018 5:25

Tgt Ion:105 Resp: 4172329

Ion Ratio Lower Upper

105 100

120 47.7 37.6 56.4

91 46.4 42.5 63.7

77 20.5 17.4 26.2

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

2500000

2000000

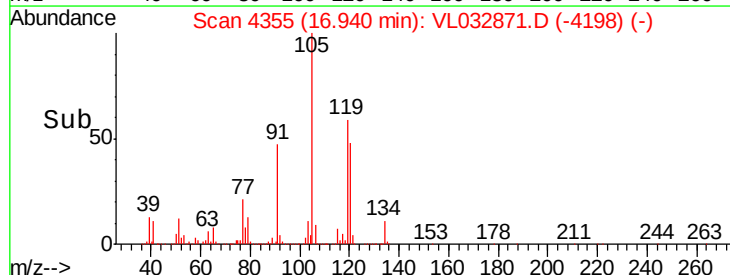
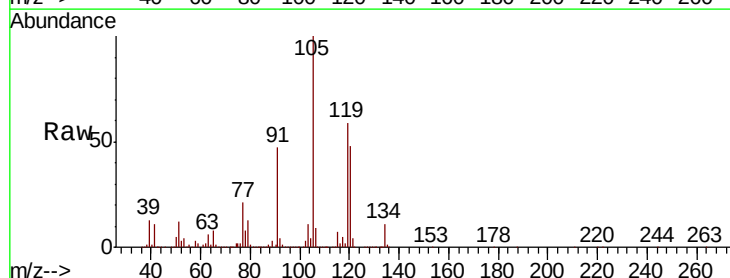
1500000

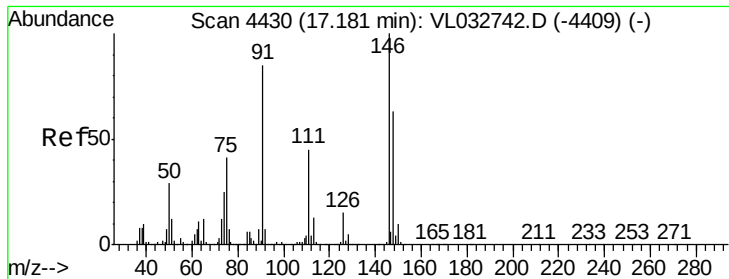
1000000

500000

0

Time-->





#75

1,3-Dichlorobenzene

Concen: 9.275 ppbv

RT: 17.18 min Scan# 4430

Delta R.T. 0.00 min

Lab File: VL032871.D

Acq: 1 Dec 2018 5:25

Instrument :

MSVOA_L

ClientSampleId :

VL1130ABS01

Tot Ion:146 Resp: 2338917

Ion Ratio Lower Upper

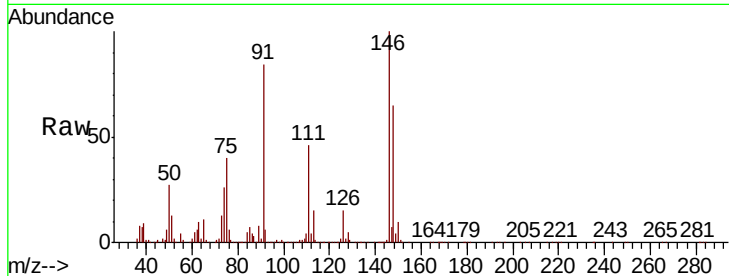
146 100

111 46.5 23.5 70.6

148 64.1 31.8 95.3

Manual Integrations
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12/3/2018 4:17:19 PM

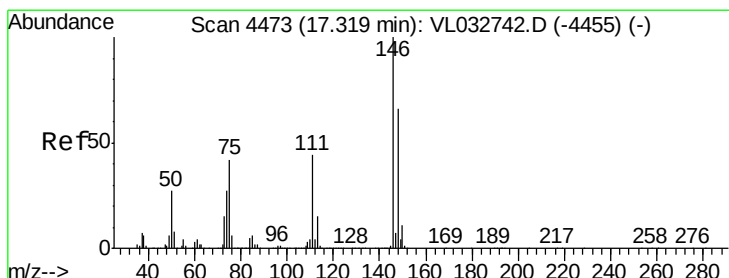
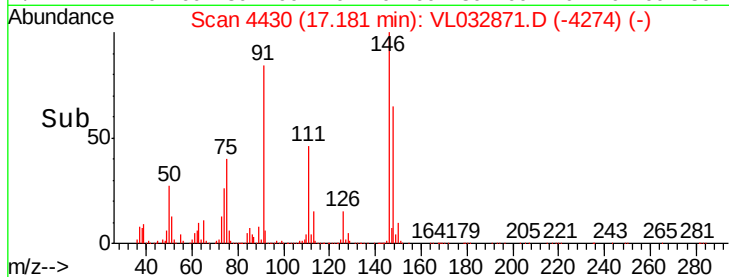
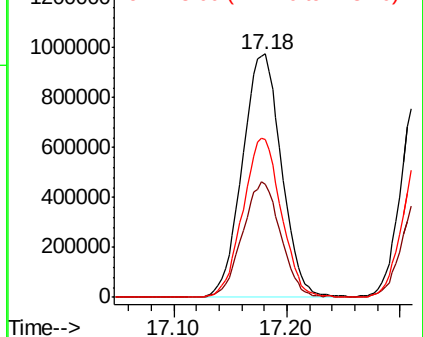


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 9.704 ppbv

RT: 17.32 min Scan# 4473

Delta R.T. 0.00 min

Lab File: VL032871.D

Acq: 1 Dec 2018 5:25

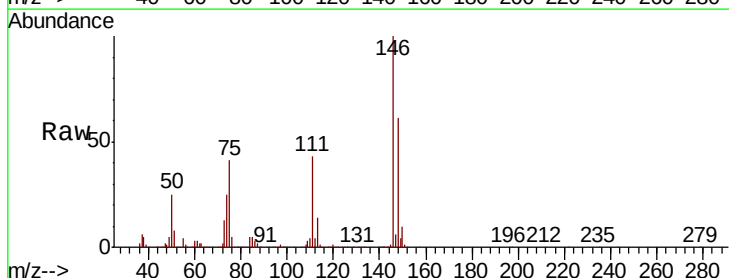
Tgt Ion:146 Resp: 2285814

Ion Ratio Lower Upper

146 100

111 45.1 22.5 67.5

148 64.7 32.5 97.5

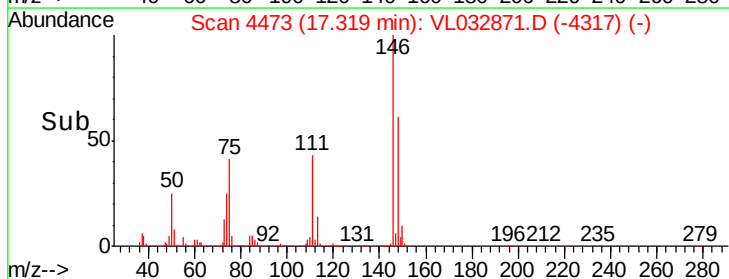
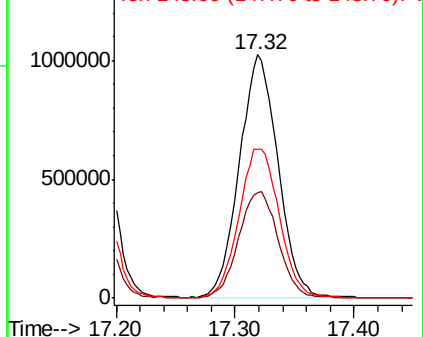


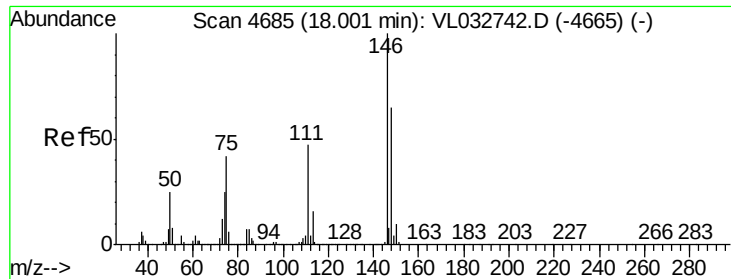
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





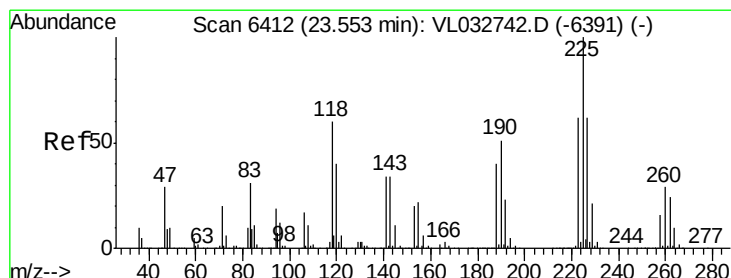
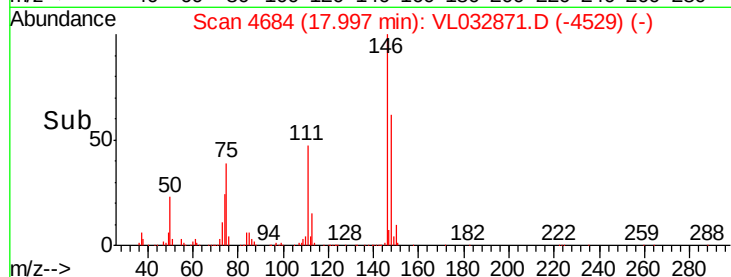
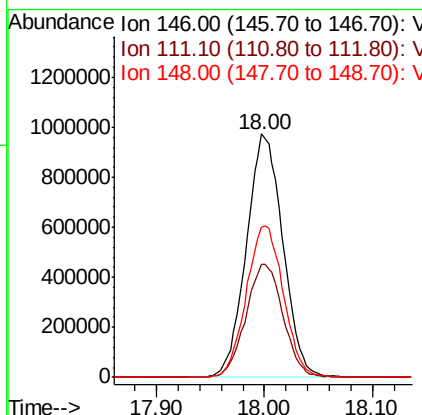
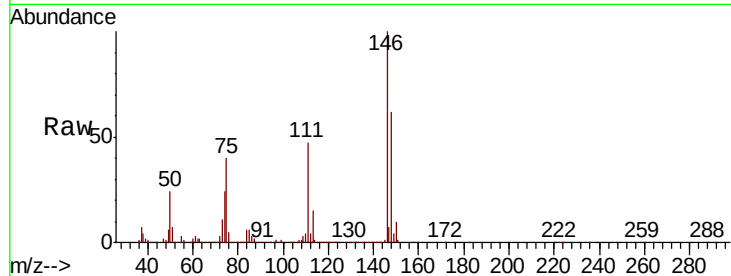
#77
 1,2-Dichlorobenzene
 Concen: 9.764 ppbv
 RT: 18.00 min Scan# 4684
 Delta R.T. -0.00 min
 Lab File: VL032871.D
 Acq: 1 Dec 2018 5:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1130ABS01

Tot Ion:146 Resp: 2278012
 Ion Ratio Lower Upper
 146 100
 111 47.4 24.4 73.2
 148 63.4 32.2 96.6

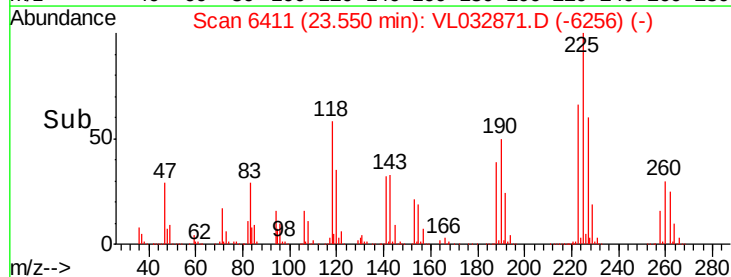
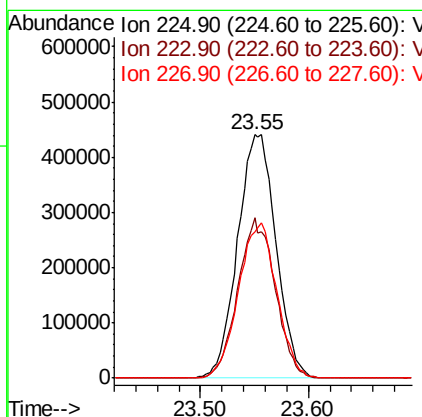
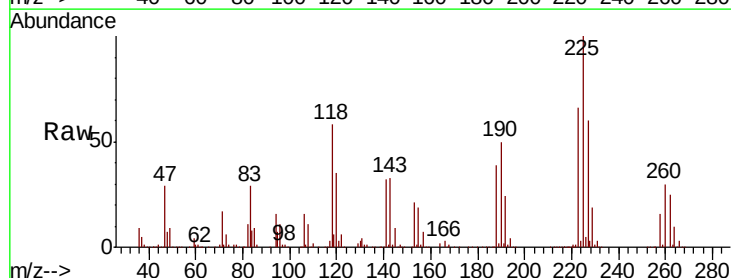
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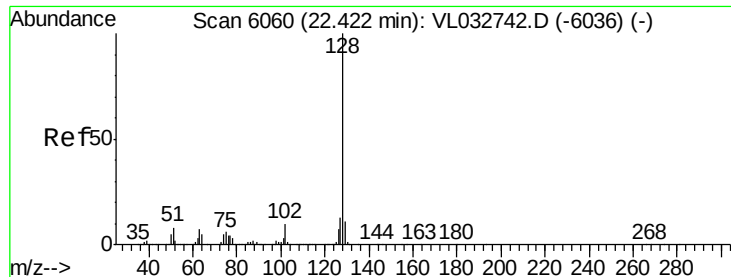
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#78
 Hexachloro-1,3-Butadiene
 Concen: 8.694 ppbv
 RT: 23.55 min Scan# 6411
 Delta R.T. -0.00 min
 Lab File: VL032871.D
 Acq: 1 Dec 2018 5:25

Tgt Ion:225 Resp: 1094633
 Ion Ratio Lower Upper
 225 100
 223 63.6 50.3 75.5
 227 63.3 50.2 75.4





#79

Naphthalene

Concen: 10.121 ppbv

RT: 22.42 min Scan# 6061

Delta R.T. 0.00 min

Lab File: VL032871.D

Acq: 1 Dec 2018 5:25

Instrument :

MSVOA_L

ClientSampled :

VL1130ABS01

Tot Ion:128 Resp: 2922970

Ion Ratio Lower Upper

128 100

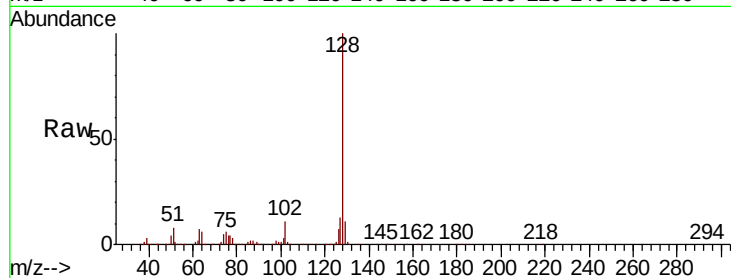
127 12.9 10.1 15.1

129 10.7 8.9 13.3

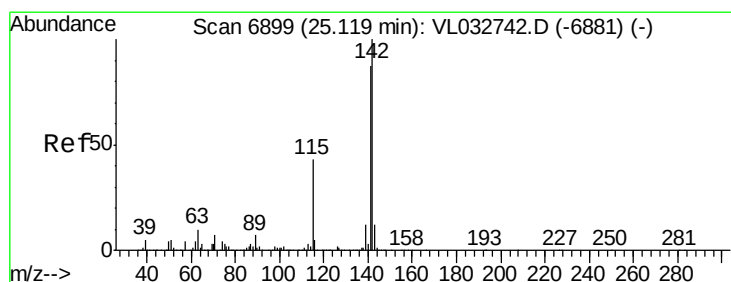
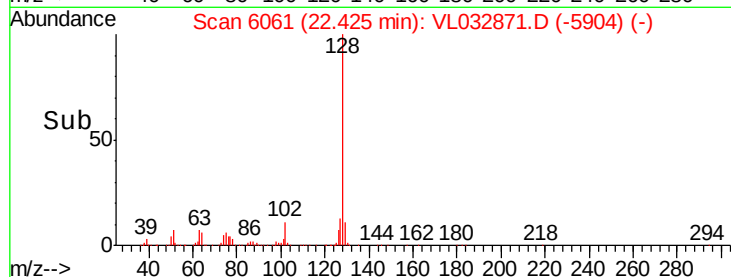
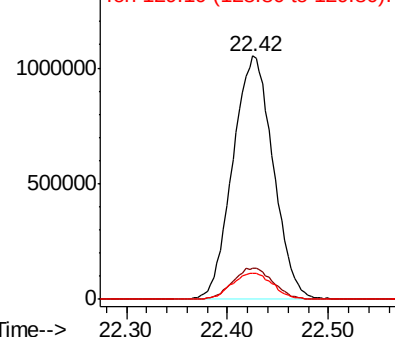
Manual Integrations
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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 10.031 ppbv

RT: 25.12 min Scan# 6900

Delta R.T. 0.00 min

Lab File: VL032871.D

Acq: 1 Dec 2018 5:25

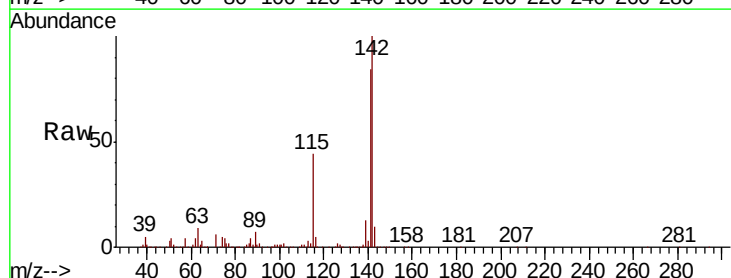
Tgt Ion:142 Resp: 725574

Ion Ratio Lower Upper

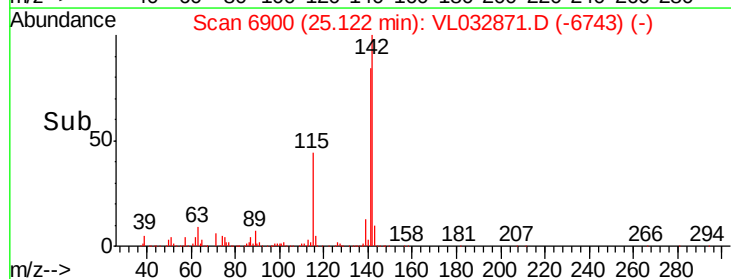
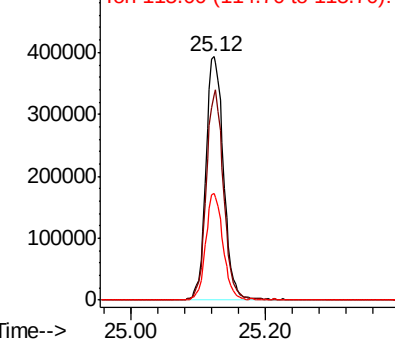
142 100

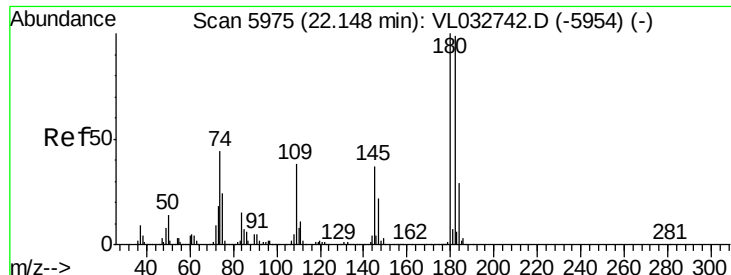
141 84.5 68.7 103.1

115 43.3 35.5 53.3



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: 10.092 ppbv
 RT: 22.15 min Scan# 5975
 Delta R.T. 0.00 min
 Lab File: VL032871.D
 Acq: 1 Dec 2018 5:25

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1130ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.5	77.3	115.9
184	30.5	24.2	36.4

Manual Integrations
 APPROVED

MMDadoda
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