

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\
 Data File : VL033466.D
 Acq On : 27 Mar 2019 13:29
 Operator : SY/AP
 Sample : VL0327ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0327ABS01

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:25:44 AM

Quant Time: Mar 28 07:49:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 28 07:49:02 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	803000	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1890747	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2144259	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1597286	9.50	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1107988	9.461	ppbv	98
3) Chlorodifluoromethane	3.01	51	887512	9.600	ppbv	100
4) Chloromethane	3.17	50	478575	9.783	ppbv	97
5) Vinyl Chloride	3.29	62	475677	9.897	ppbv	99
6) Bromomethane	3.51	94	307133	9.943	ppbv	93
7) Chloroethane	3.60	64	178999	10.006	ppbv	94
8) Dichlorotetrafluoroethane	3.22	85	1213049	9.721	ppbv	100
9) Propene	3.03	41	373479	9.620	ppbv	98
10) Heptane	8.25	43	1100897	10.608	ppbv	99
11) Trichlorofluoromethane	4.00	101	1385283	9.598	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	962003	9.923	ppbv	99
13) Ethanol	3.65	45	115595	11.506	ppbv	65
14) Bromoethene	3.78	108	392222	10.144	ppbv	99
15) Acetone	3.90	43	861278	8.920	ppbv	100
16) 1,3-Butadiene	3.36	39	399384	10.429	ppbv	90
17) tert-Butyl alcohol	4.35	59	190774	10.746	ppbv	98
18) 1,1-Dichloroethene	4.35	96	418086	10.040	ppbv	97
19) Isopropyl Alcohol	4.02	45	673851	11.034	ppbv	99
20) Methylene Chloride	4.41	84	364796	8.901	ppbv	94
21) Allyl Chloride	4.48	41	620655	10.169	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	431700	9.936	ppbv	96
23) Vinyl Acetate	5.15	43	1408909	10.252	ppbv	99
24) 1,1-Dichloroethane	5.09	63	998256	9.563	ppbv	99
25) Ethyl Acetate	5.76	43	1745883	9.746	ppbv	100
26) Hexane	5.78	57	776762	9.752	ppbv	99
27) Carbon Disulfide	4.62	76	1044552	11.028	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1152887	10.049	ppbv	100
29) Chloroform	5.85	83	1311276	9.604	ppbv	100
30) Cyclohexane	7.24	84	663560	10.531	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	802918	10.139	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	1318412	10.140	ppbv	99
34) 2-Butanone	5.33	43	1124606	9.900	ppbv	100
35) Carbon Tetrachloride	7.13	117	1421449	10.614	ppbv	99
36) Benzene	7.00	78	1625803	10.248	ppbv	98
37) 1,2-Dichloroethane	6.41	62	1023262	9.623	ppbv	99
38) Trichloroethene	7.96	130	689000	11.540	ppbv	99
39) 1,2-Dichloropropane	7.73	63	645916	10.393	ppbv	98
40) 1,4-Dioxane	7.95	88	264134	11.916	ppbv	81
41) Tetrahydrofuran	6.14	42	631341	10.104	ppbv	98
42) Bromodichloromethane	7.91	83	1551575	10.713	ppbv	100
43) Methyl Methacrylate	8.13	69	708309	10.996	ppbv	99

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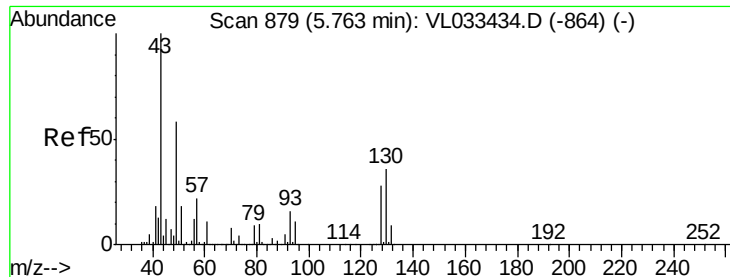
Manual Integrations
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 28 07:49:02 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2910887	10.500	ppbv	100
45) t-1,3-Dichloropropene	9.41	75	958735	12.122	ppbv	96
46) cis-1,3-Dichloropropene	8.83	75	1083034	11.726	ppbv	98
47) 1,1,2-Trichloroethane	9.61	97	718734	10.185	ppbv	99
48) Dibromochloromethane	10.45	129	1347377	11.320	ppbv	100
49) Bromoform	13.20	173	1226179	10.783	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1789458	10.758	ppbv	100
51) 2-Hexanone	10.27	43	1412713	11.386	ppbv	99
52) Tetrachloroethene	11.37	164	663079	11.078	ppbv	96
53) Toluene	9.94	91	2071723	11.238	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1180373	10.694	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	950813	9.675	ppbv	95
57) Chlorobenzene	12.30	112	1600048	9.610	ppbv	99
58) Ethyl Benzene	12.86	91	2944287	10.282	ppbv	98
59) m/p-Xylene	13.12	91	4933452m	19.289	ppbv	
60) o-Xylene	13.85	91	2450412	9.908	ppbv	100
61) Styrene	13.68	104	1807543	10.648	ppbv	100
62) Isopropylbenzene	14.82	105	3421775	9.770	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	1696854	9.318	ppbv	99
64) n-propylbenzene	15.72	120	892391	10.041	ppbv	98
65) tert-Butylbenzene	16.91	119	3100456	10.046	ppbv	100
66) Benzyl Chloride	17.16	91	1726541	12.030	ppbv	100
67) sec-Butylbenzene	17.46	105	4416207	10.062	ppbv	100
69) p-Isopropyltoluene	17.81	119	3692587	10.333	ppbv	100
70) n-Butylbenzene	18.71	91	3902234	10.306	ppbv	100
71) 2-Chlorotoluene	15.61	91	2690377	10.102	ppbv	100
72) 4-Ethyltoluene	16.00	105	2871209	10.328	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	2768274	10.405	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	2869772	10.064	ppbv	95
75) 1,3-Dichlorobenzene	17.16	146	1693349	9.608	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	1702275	9.913	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	1658605	9.918	ppbv	99
78) Hexachloro-1,3-Butadiene	23.54	225	918879	8.301	ppbv	99
79) Naphthalene	22.41	128	2832391	11.603	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	789720	9.640	ppbv	96
81) 1,2,4-Trichlorobenzene	22.13	180	1456887	10.760	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

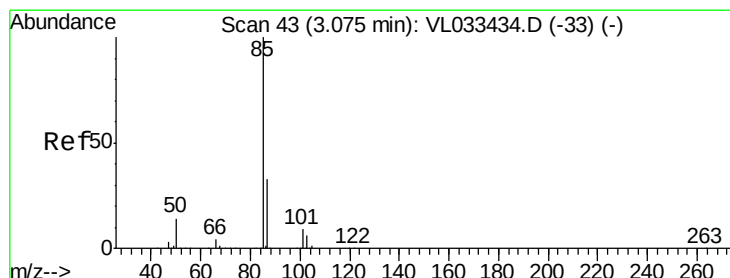
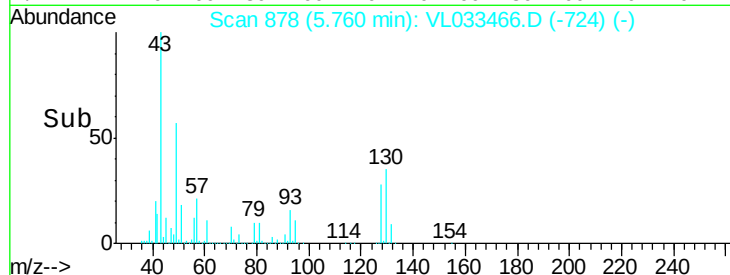
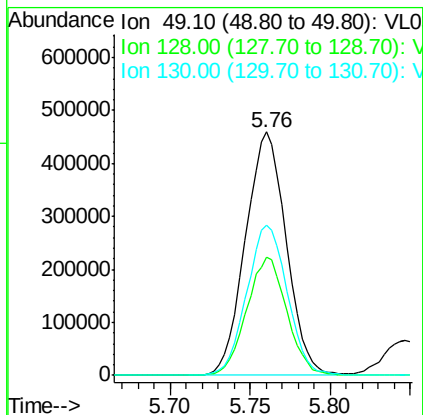
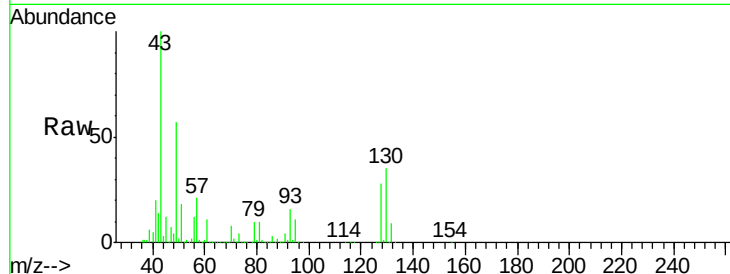
ClientSampleId :

VL0327ABS01

Tot Ion:	49	Resp:	803000
Ion	Ratio	Lower	Upper
49	100		
128	47.8	24.0	72.0
130	61.9	31.2	93.6

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#2

Dichlorodifluoromethane

Concen: 9.461 ppbv

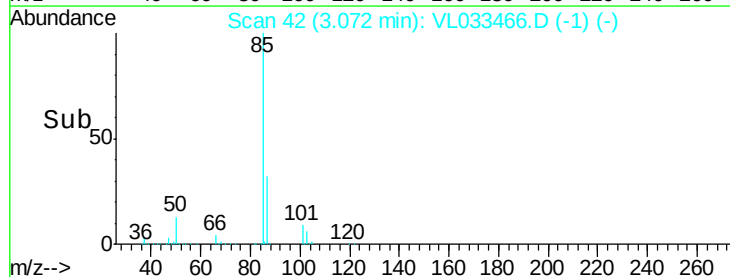
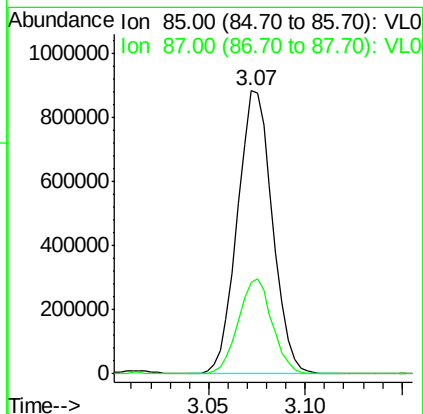
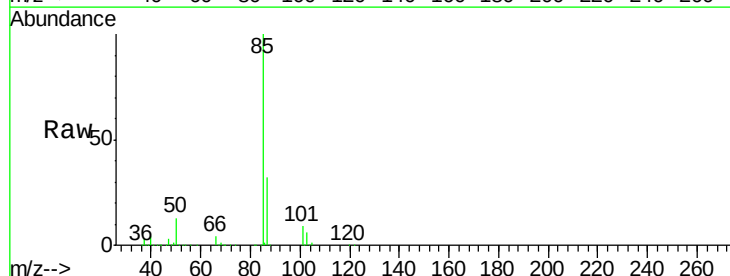
RT: 3.07 min Scan# 42

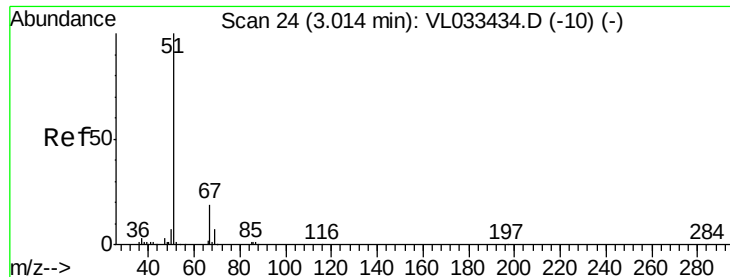
Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Tgt Ion:	85	Resp:	1107988
Ion	Ratio	Lower	Upper
85	100		
87	32.3	26.7	40.1





#3

Chlorodifluoromethane

Concen: 9.600 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

ClientSampleId :

VL0327ABS01

Tot Ion: 51 Resp: 887512

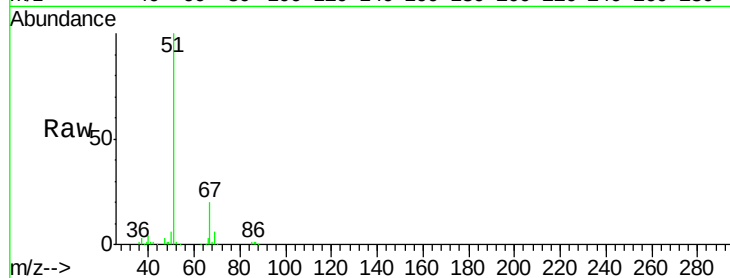
Ion Ratio Lower Upper

51 100

67 19.5 15.7 23.5

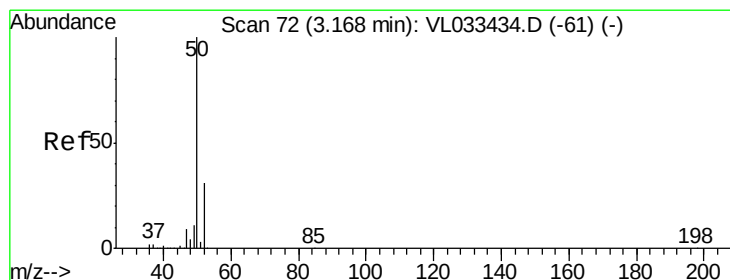
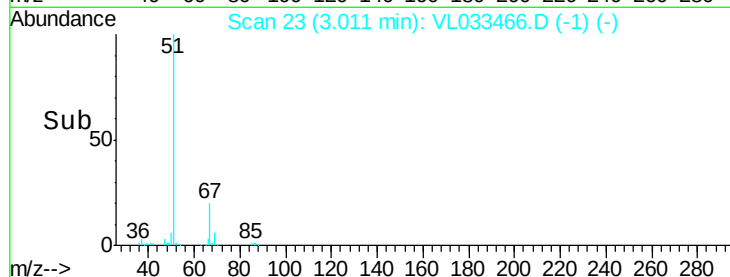
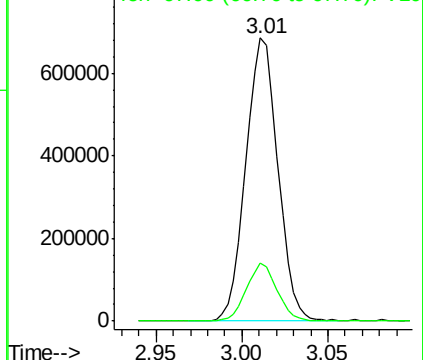
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.783 ppbv

RT: 3.17 min Scan# 71

Delta R.T. -0.00 min

Lab File: VL033466.D

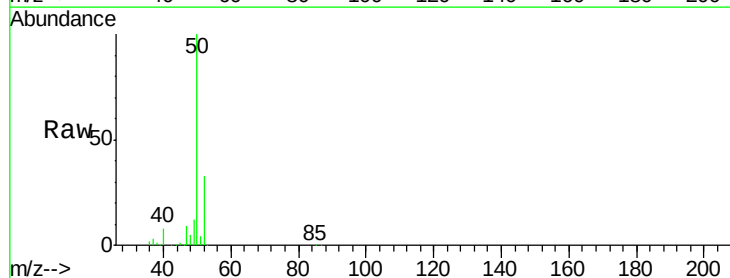
Acq: 27 Mar 2019 13:29

Tgt Ion: 50 Resp: 478575

Ion Ratio Lower Upper

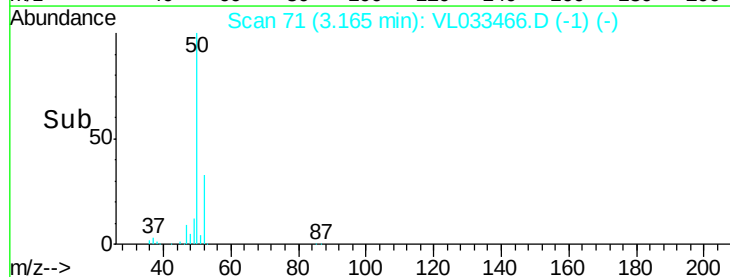
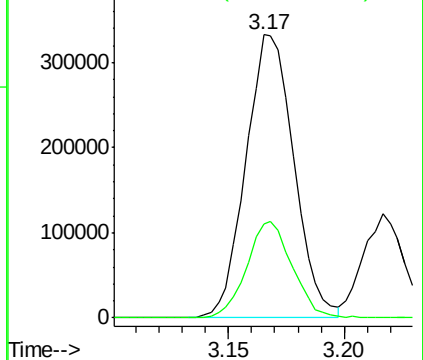
50 100

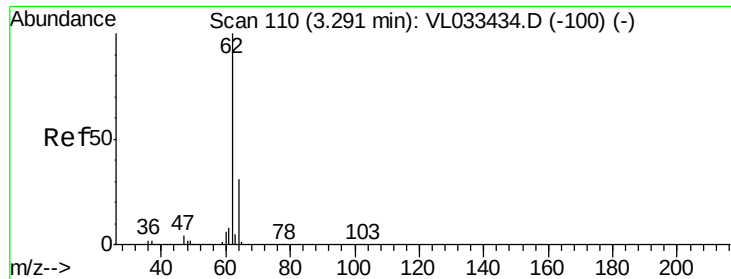
52 33.1 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.897 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

ClientSampleId :

VL0327ABS01

Tot Ion: 62 Resp: 475677

Ion Ratio Lower Upper

62 100

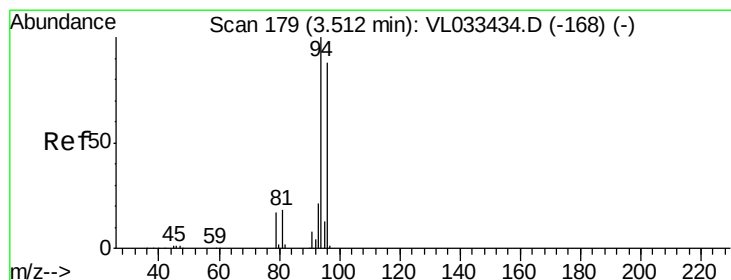
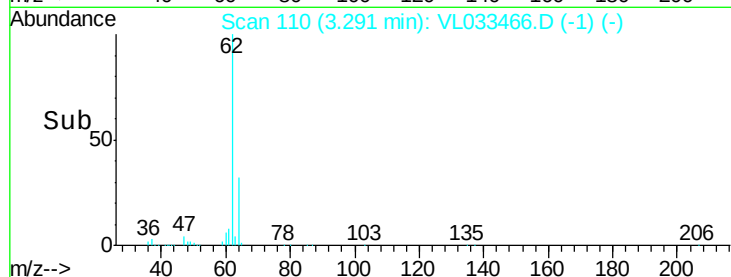
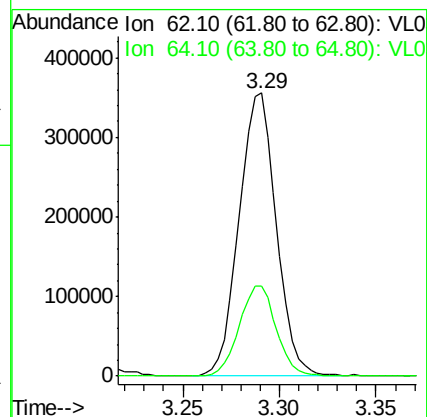
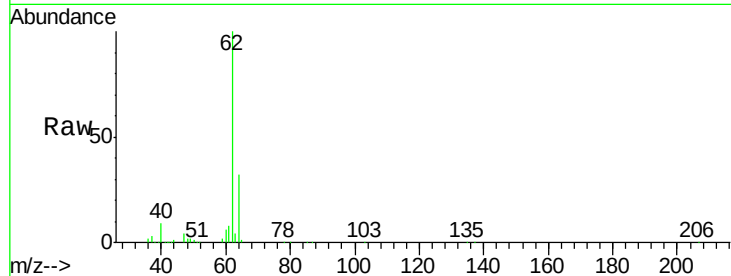
64 31.7 24.9 37.3

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#6

Bromomethane

Concen: 9.943 ppbv

RT: 3.51 min Scan# 178

Delta R.T. -0.00 min

Lab File: VL033466.D

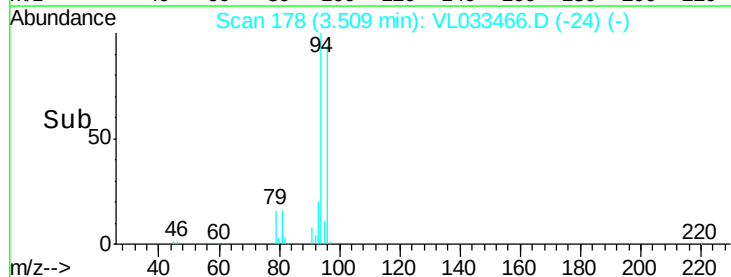
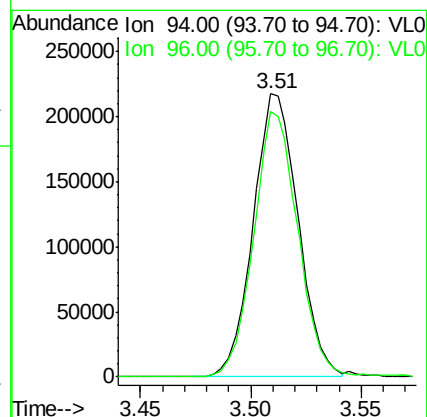
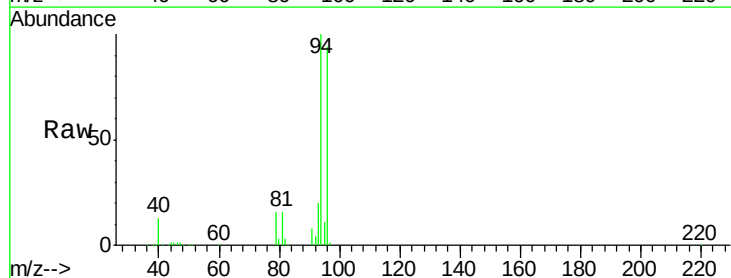
Acq: 27 Mar 2019 13:29

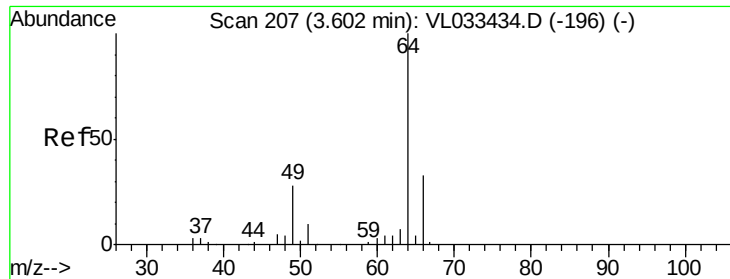
Tgt Ion: 94 Resp: 307133

Ion Ratio Lower Upper

94 100

96 93.8 70.2 105.2





#7

Chloroethane

Concen: 10.006 ppbv

RT: 3.60 min Scan# 205

Delta R.T. -0.01 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

ClientSampleId :

VL0327ABS01

Tot Ion: 64 Resp: 178999

Ion Ratio Lower Upper

64 100

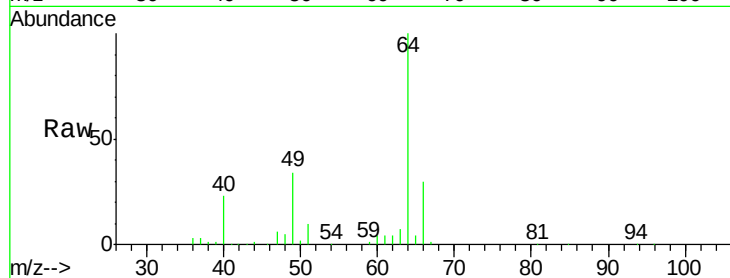
66 29.8 26.7 40.1

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

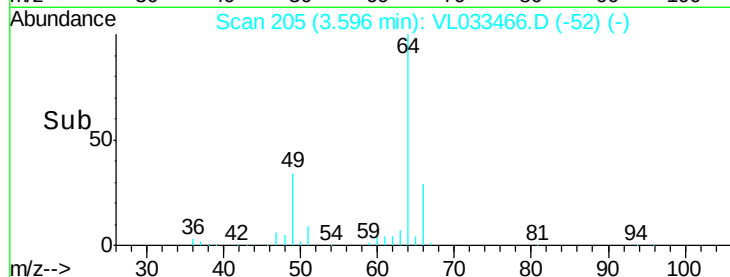
150000

100000

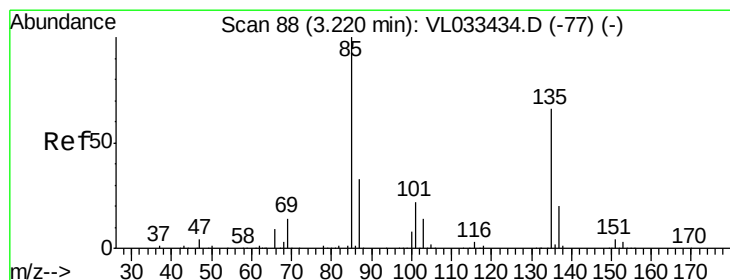
50000

0

Time-->



Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.721 ppbv

RT: 3.22 min Scan# 87

Delta R.T. -0.00 min

Lab File: VL033466.D

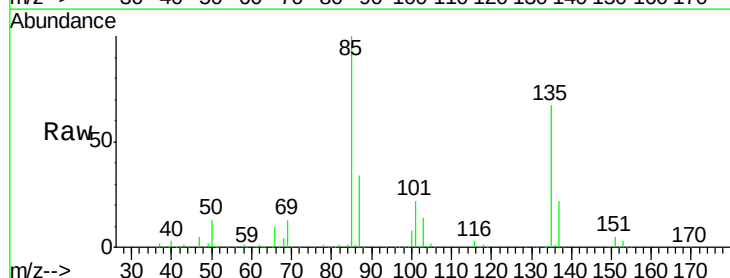
Acq: 27 Mar 2019 13:29

Tgt Ion: 85 Resp: 1213049

Ion Ratio Lower Upper

85 100

135 67.1 54.0 81.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

1000000

800000

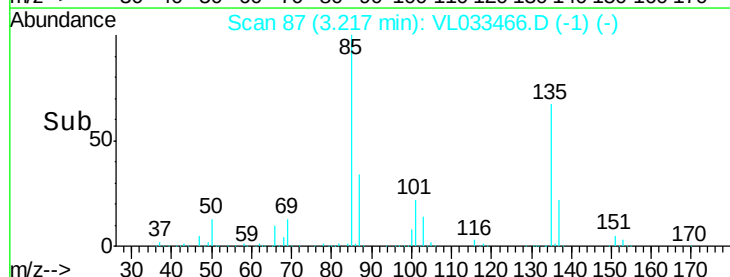
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400000

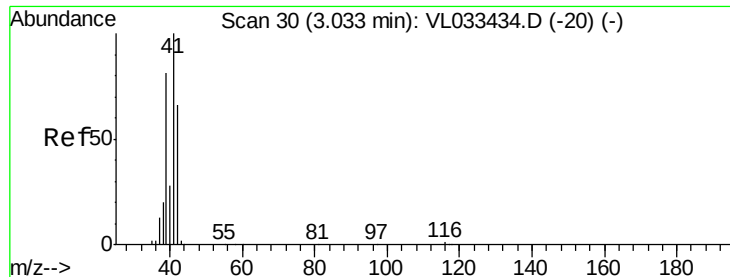
200000

0

Time-->



Time-->



#9

Propene

Concen: 9.620 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

ClientSampleId :

VL0327ABS01

Tot Ion: 41 Resp: 373479

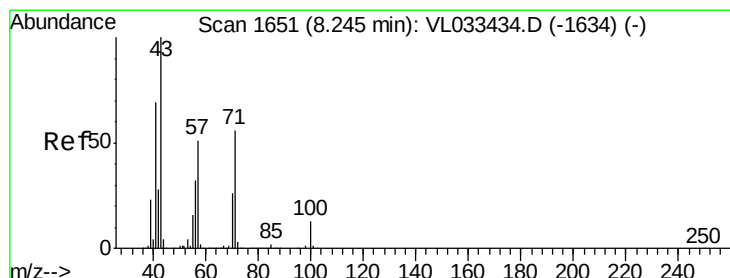
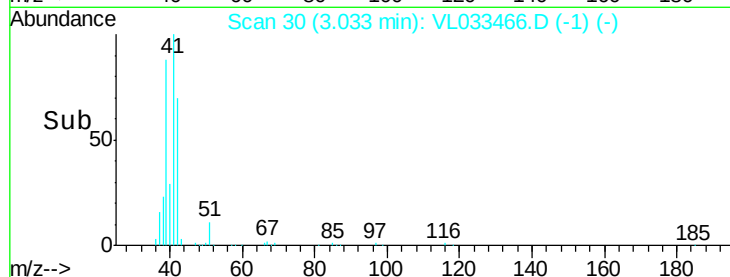
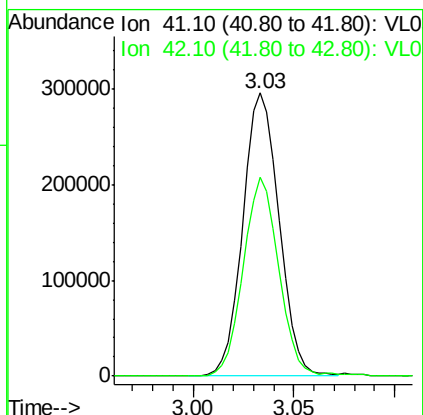
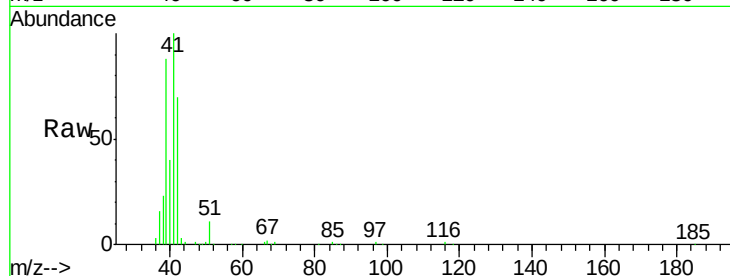
Ion Ratio Lower Upper

41 100

42 69.4 53.9 80.9

Manual Integrations
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#10

Heptane

Concen: 10.608 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.00 min

Lab File: VL033466.D

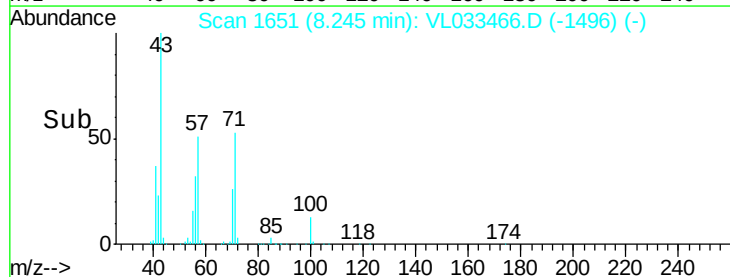
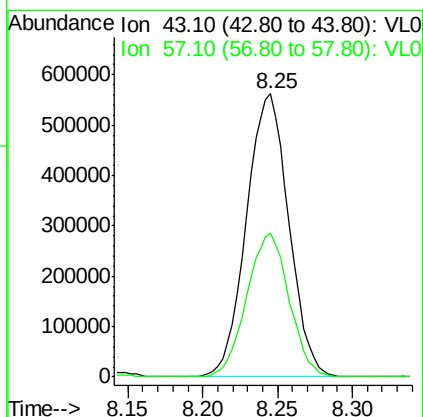
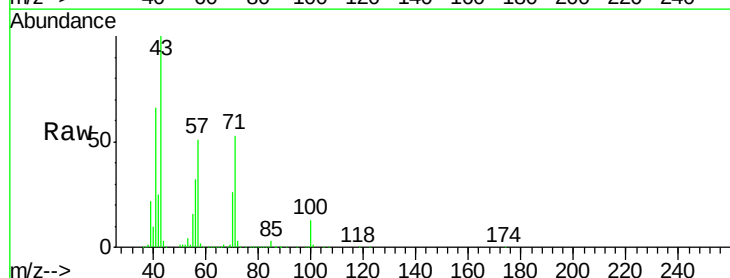
Acq: 27 Mar 2019 13:29

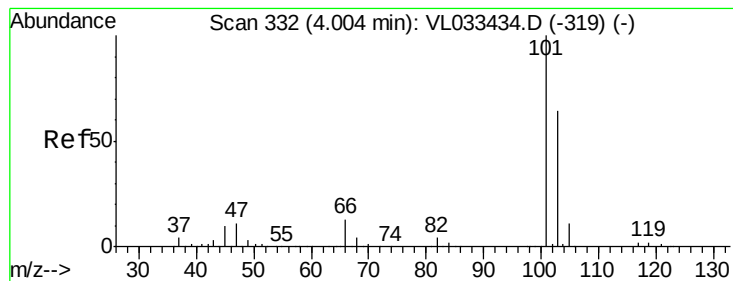
Tgt Ion: 43 Resp: 1100897

Ion Ratio Lower Upper

43 100

57 51.1 40.6 60.8





#11

Trichlorofluoromethane

Concen: 9.598 ppbv

RT: 4.00 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

ClientSampleId :

VL0327ABS01

Tot Ion:101 Resp: 1385283

Ion Ratio Lower Upper

101 100

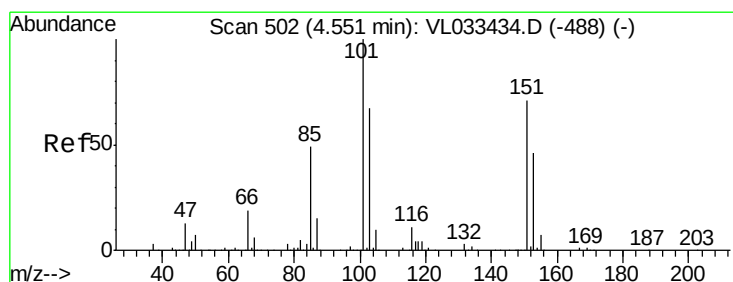
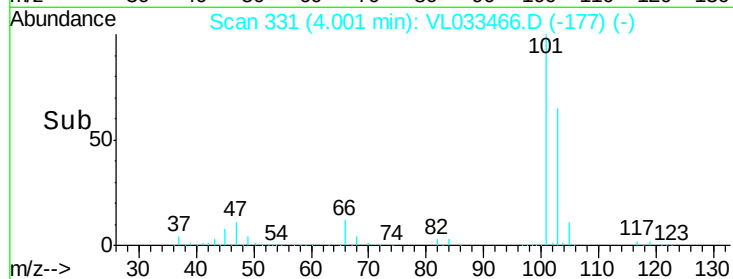
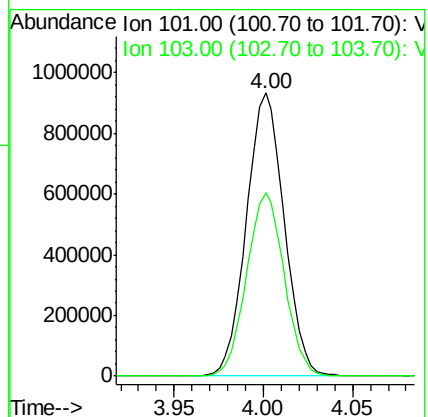
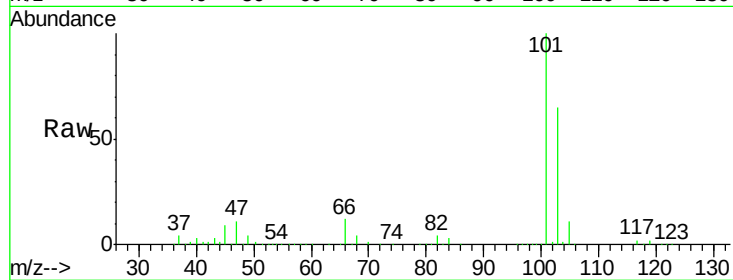
103 65.0 51.3 76.9

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.923 ppbv

RT: 4.55 min Scan# 501

Delta R.T. -0.00 min

Lab File: VL033466.D

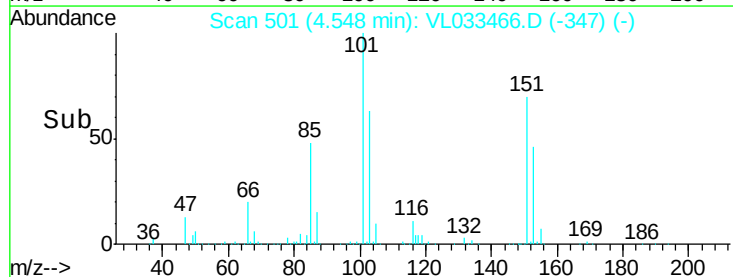
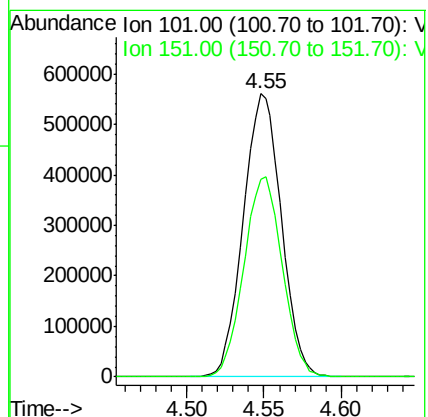
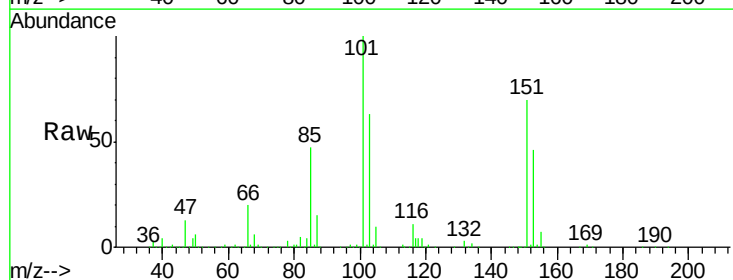
Acq: 27 Mar 2019 13:29

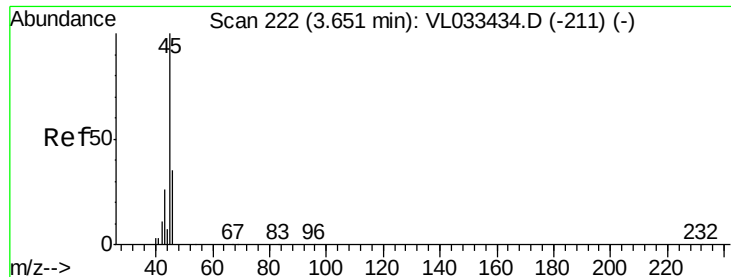
Tgt Ion:101 Resp: 962003

Ion Ratio Lower Upper

101 100

151 71.4 57.7 86.5





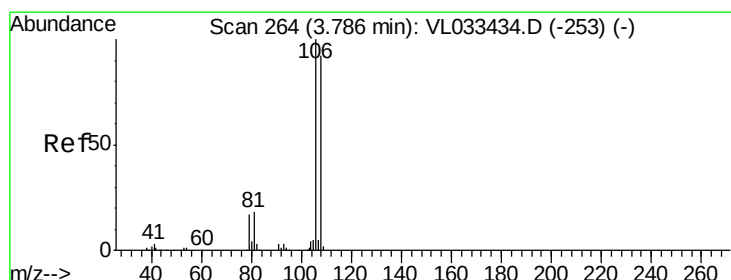
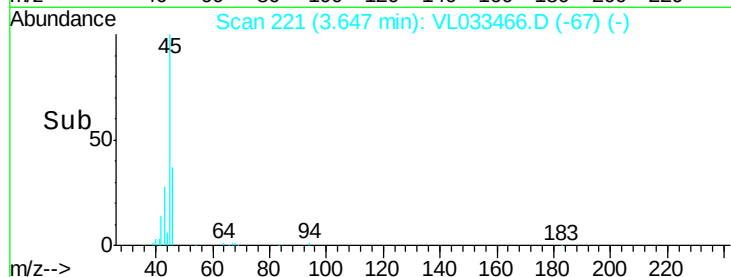
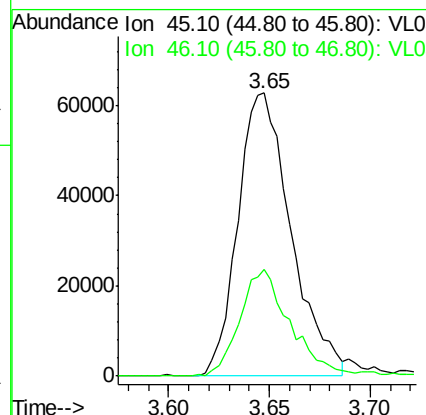
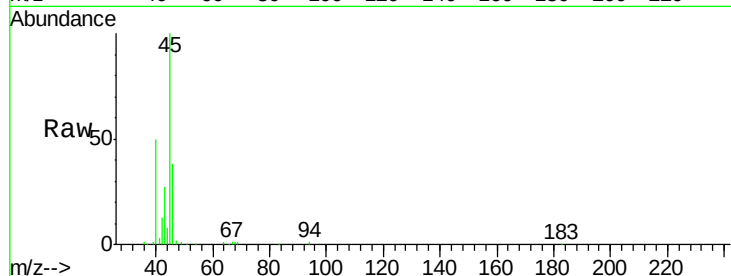
#13
Ethanol
Concen: 11.506 ppbv
RT: 3.65 min Scan# 221
Delta R.T. -0.00 min
Lab File: VL033466.D
Acq: 27 Mar 2019 13:29

Instrument :
MSVOA_L
ClientSampleId :
VL0327ABS01

Tot Ion	45	Resp	115595
Ion Ratio	100	Lower	Upper
46	36.3	25.4	101.8

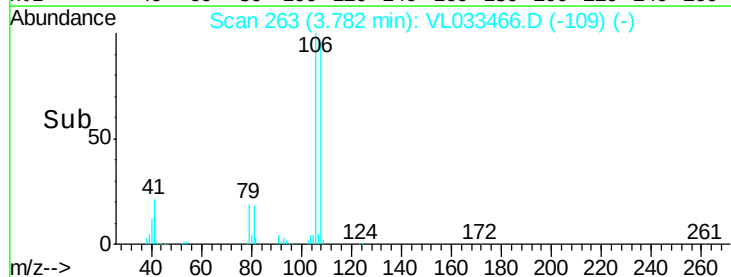
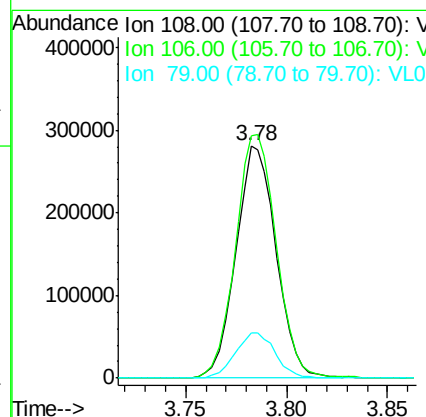
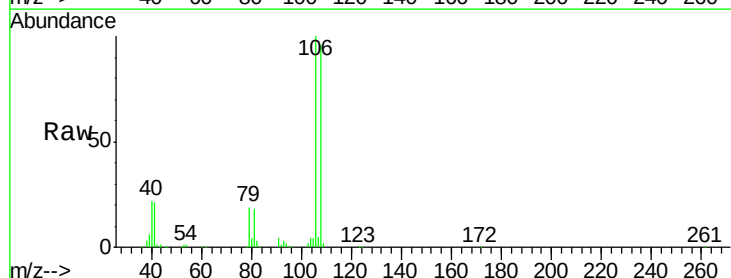
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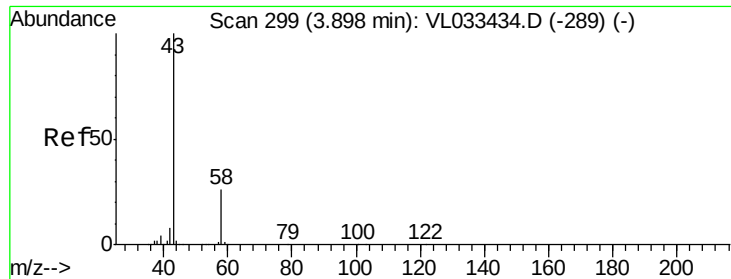
MMDadoda
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#14
Bromoethene
Concen: 10.144 ppbv
RT: 3.78 min Scan# 263
Delta R.T. -0.00 min
Lab File: VL033466.D
Acq: 27 Mar 2019 13:29

Tgt Ion	108	Resp	392222
Ion Ratio	100	Lower	Upper
106	107.1	86.4	129.6
79	19.5	15.8	23.8





#15

Acetone

Concen: 8.920 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

ClientSampleId :

VL0327ABS01

Tot Ion: 43 Resp: 861278

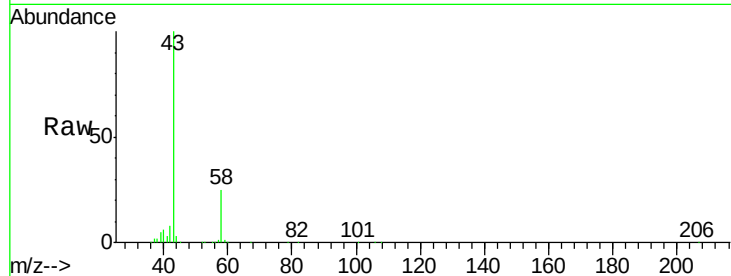
Ion Ratio Lower Upper

43 100

58 25.7 20.5 30.7

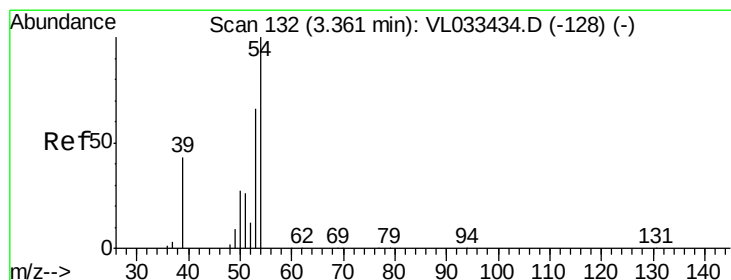
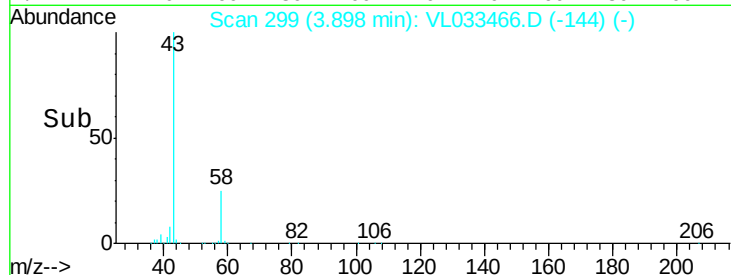
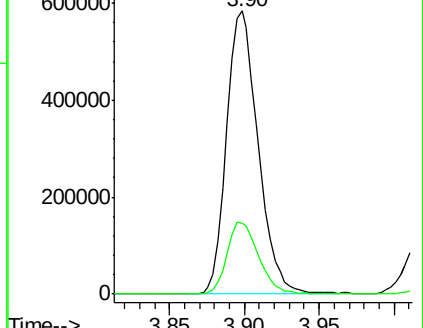
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 10.429 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033466.D

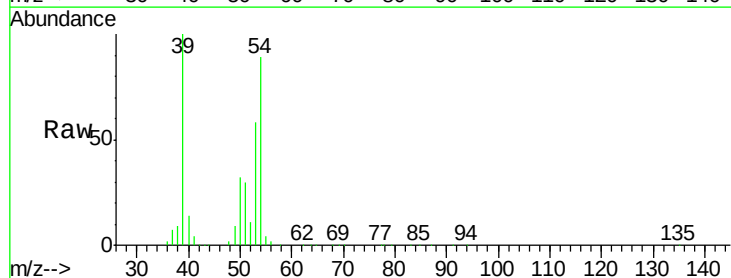
Acq: 27 Mar 2019 13:29

Tgt Ion: 39 Resp: 399384

Ion Ratio Lower Upper

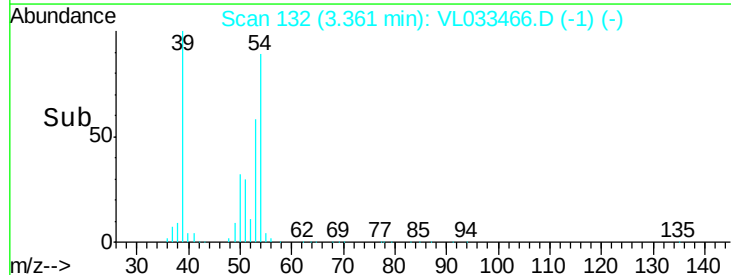
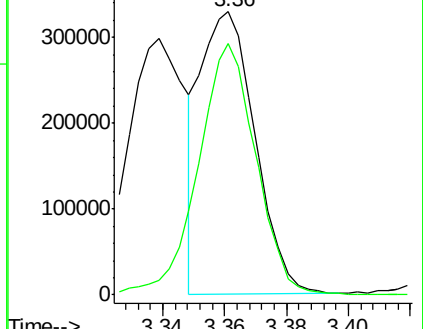
39 100

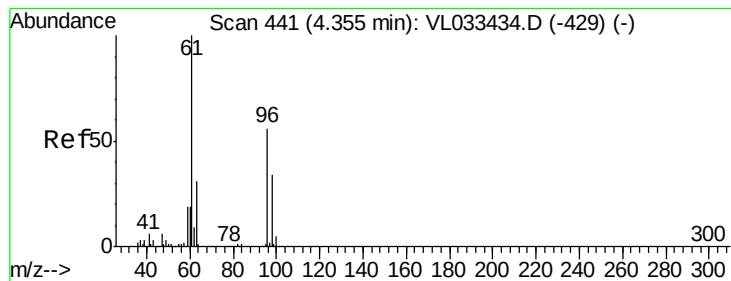
54 95.9 69.4 104.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

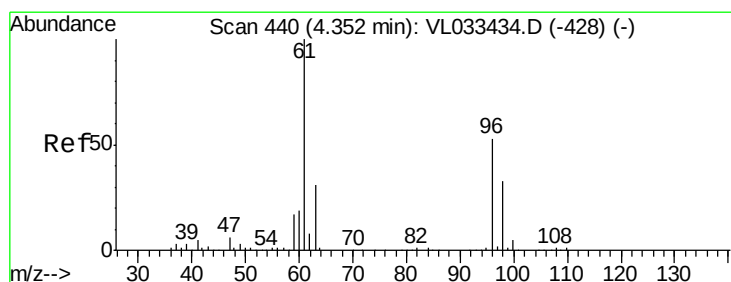
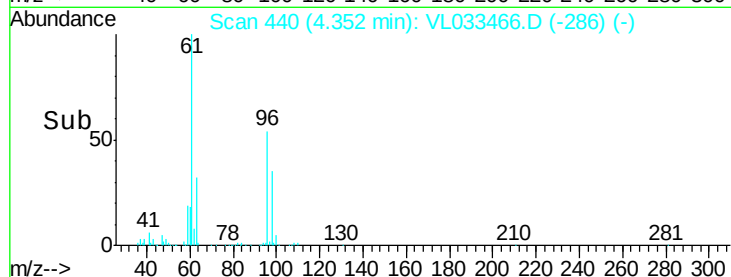
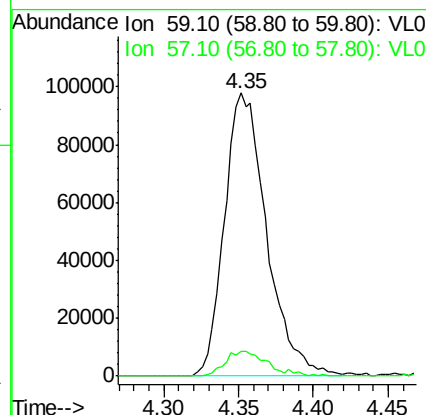
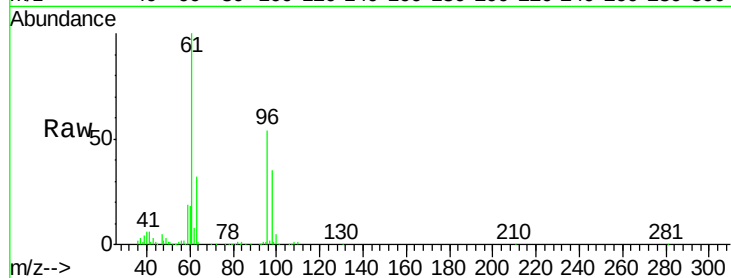
tert-Butyl alcohol
 Concen: 10.746 ppbv
 RT: 4.35 min Scan# 440
 Delta R.T. -0.00 min
 Lab File: VL033466.D
 Acq: 27 Mar 2019 13:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0327ABS01

Tot Ion	59.10	Resp	190774
Ion	Ratio	Lower	Upper
59	100		
57	9.0	7.8	11.8

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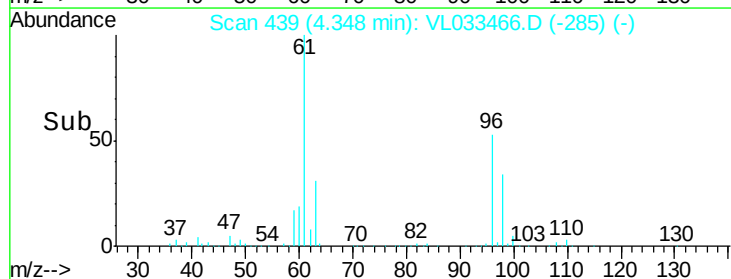
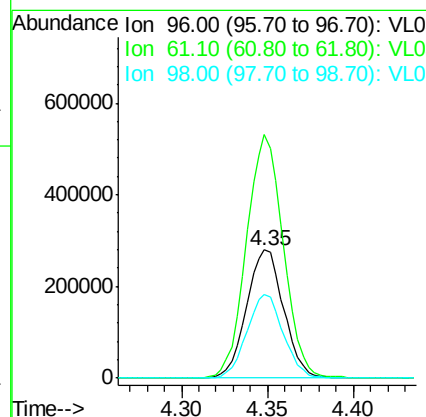
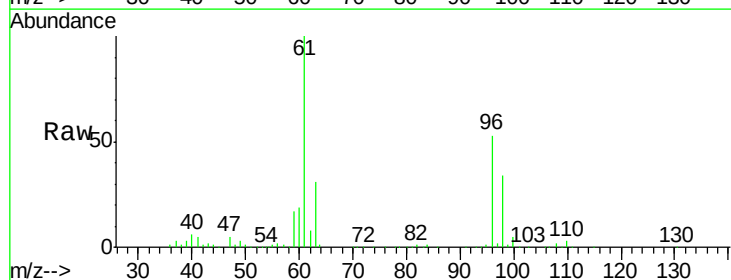
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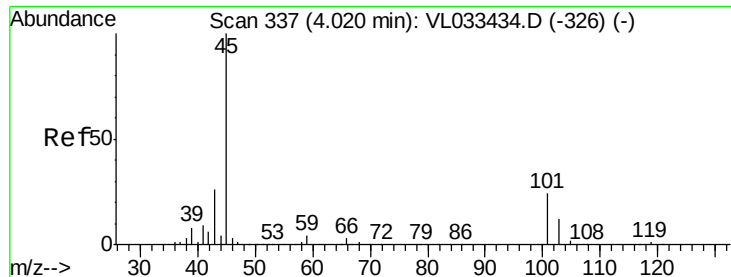


#18

1,1-Dichloroethene
 Concen: 10.040 ppbv
 RT: 4.35 min Scan# 439
 Delta R.T. -0.00 min
 Lab File: VL033466.D
 Acq: 27 Mar 2019 13:29

Tgt Ion	96	Resp	418086
Ion	Ratio	Lower	Upper
96	100		
61	190.5	149.8	224.6
98	65.5	48.7	73.1





#19

Isopropyl Alcohol

Concen: 11.034 ppbv

RT: 4.02 min Scan# 336

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

ClientSampleId :

VL0327ABS01

Tot Ion: 45 Resp: 673851

Ion Ratio Lower Upper

45 100

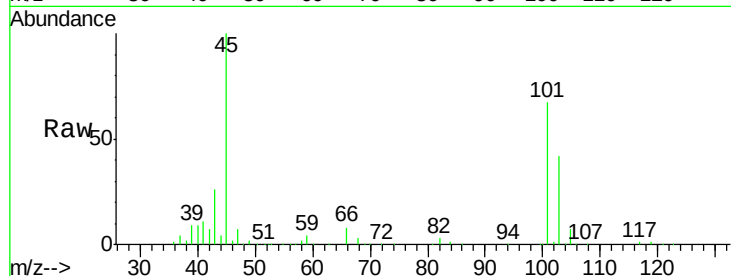
58 2.1 1.4 2.2

Manual Integrations

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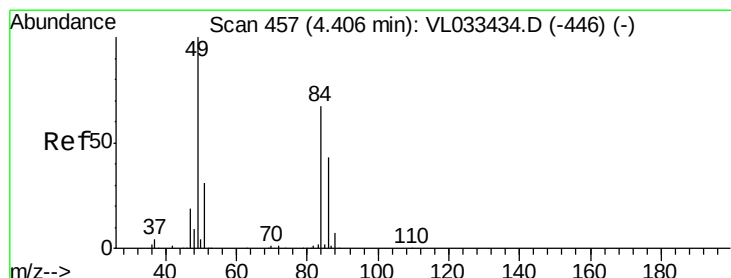
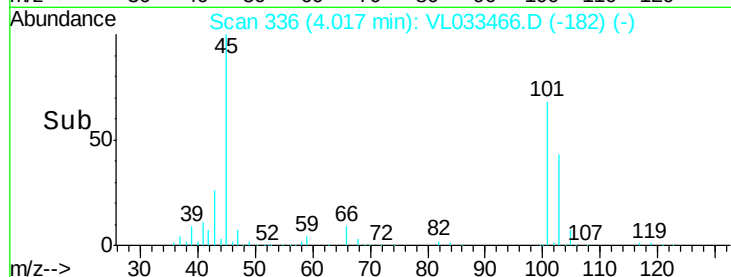
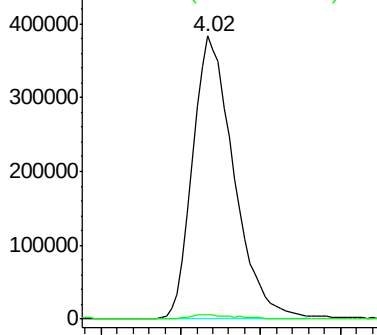
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 8.901 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Tgt Ion: 84 Resp: 364796

Ion Ratio Lower Upper

84 100

49 140.2 120.0 180.0

51 41.5 36.7 55.1

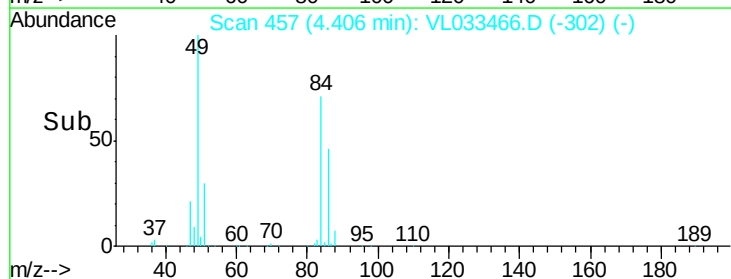
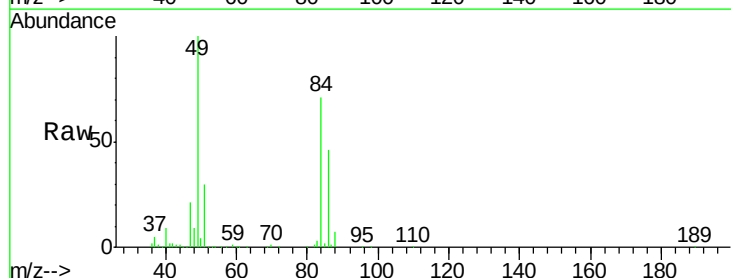
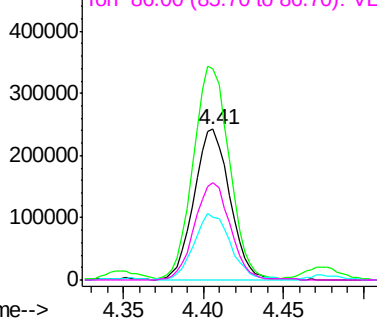
86 65.0 51.9 77.9

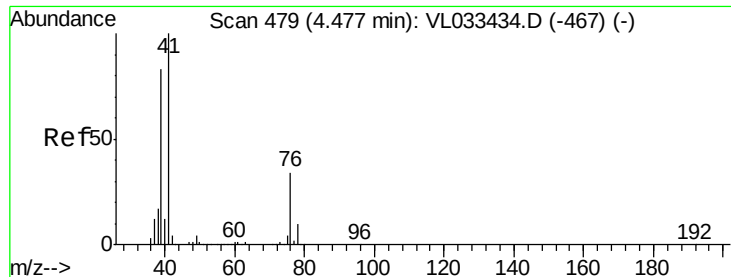
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#21

Allvl Chloride

Concen: 10.169 ppbv

RT: 4.48 min Scan# 479

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

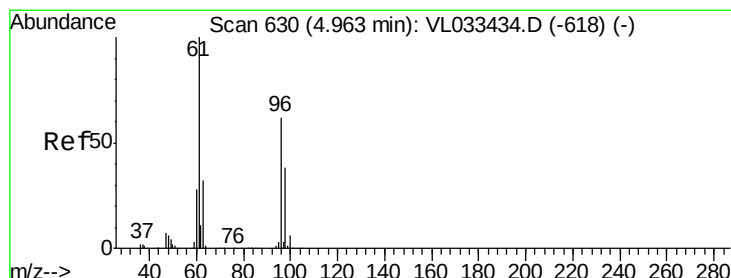
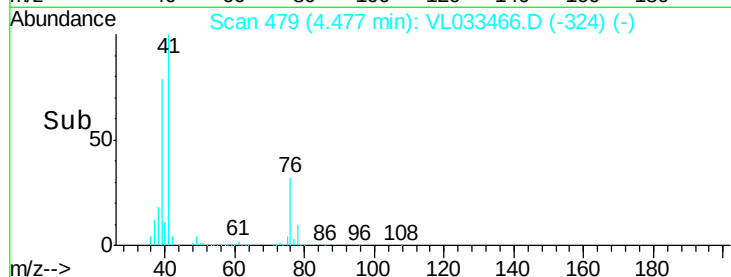
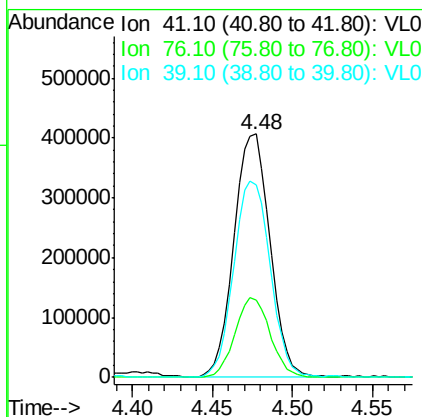
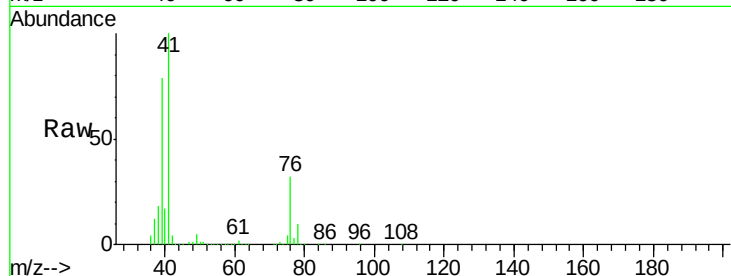
ClientSampleId :

VL0327ABS01

Tot Ion:	41	Resp:	620655
Ion Ratio	Lower	Upper	
41	100		
76	32.0	25.4	38.2
39	82.6	65.3	97.9

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#22

trans-1,2-Dichloroethene

Concen: 9.936 ppbv

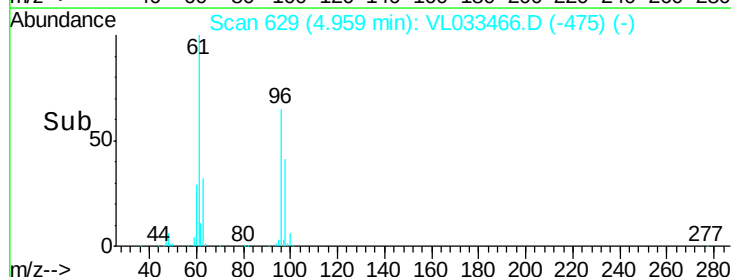
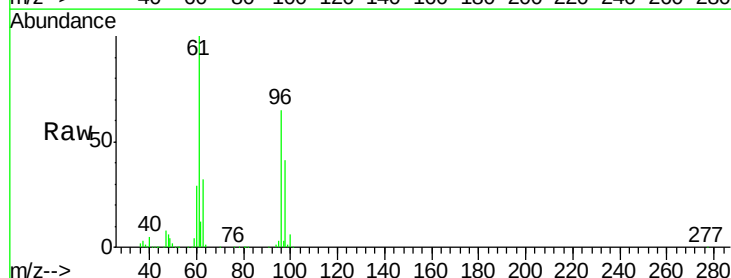
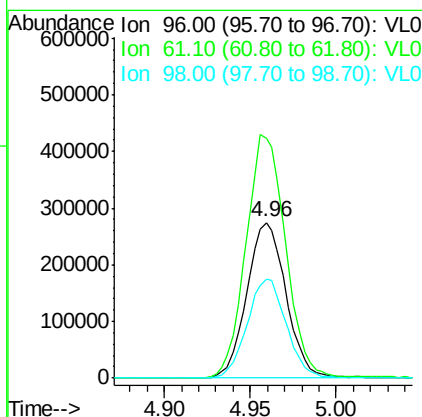
RT: 4.96 min Scan# 629

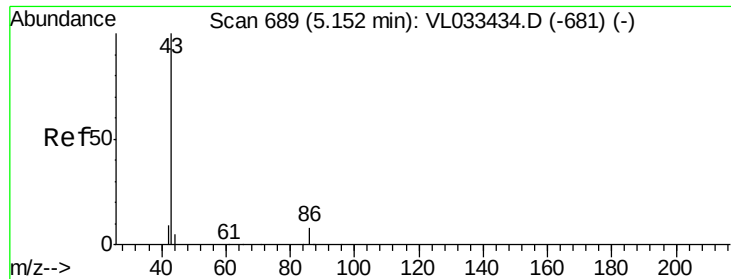
Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Tgt Ion:	96	Resp:	431700
Ion Ratio	Lower	Upper	
96	100		
61	154.2	128.9	193.3
98	63.4	49.5	74.3





#23

Vinyl Acetate

Concen: 10.252 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

ClientSampleId :

VL0327ABS01

Tot Ion: 43 Resp: 1408909

Ion Ratio Lower Upper

43 100

86 7.3 5.6 8.4

42 10.4 8.0 12.0

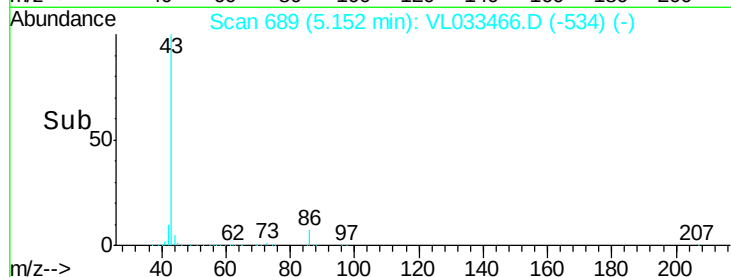
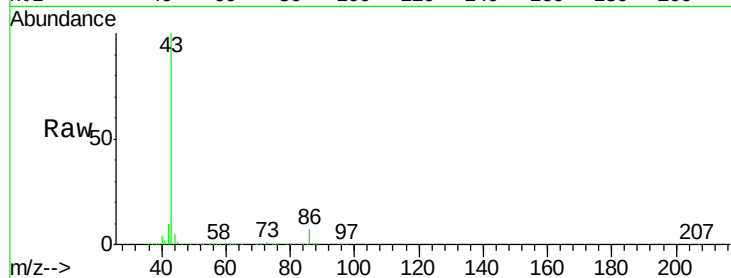
44 5.0 3.9 5.9

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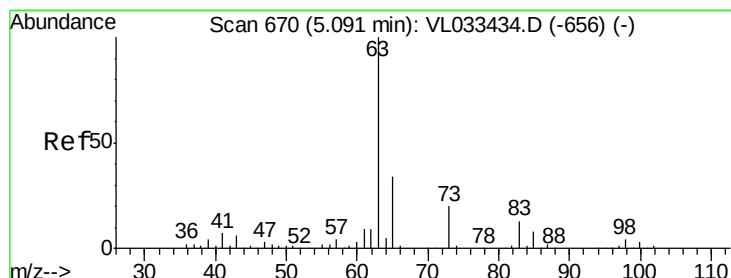
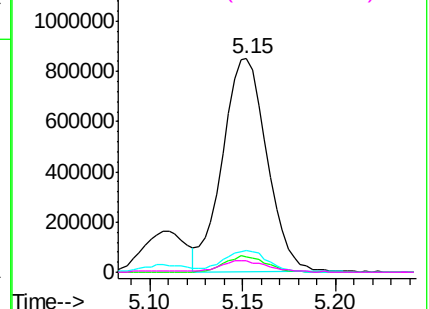


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.563 ppbv

RT: 5.09 min Scan# 669

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

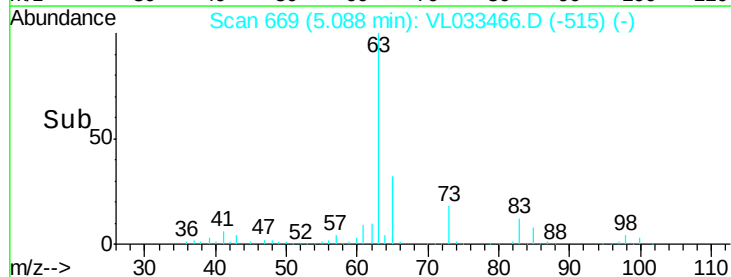
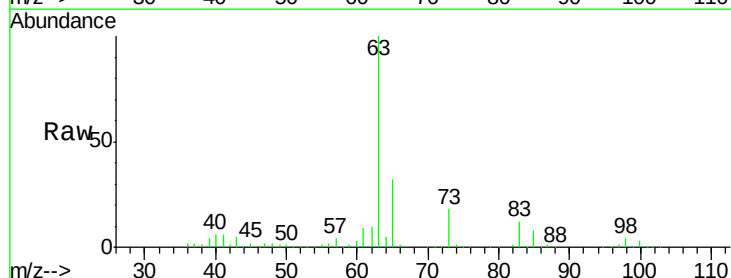
Tgt Ion: 63 Resp: 998256

Ion Ratio Lower Upper

63 100

98 4.1 2.2 6.6

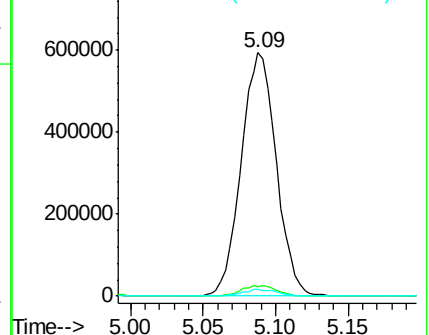
100 2.8 1.5 4.4

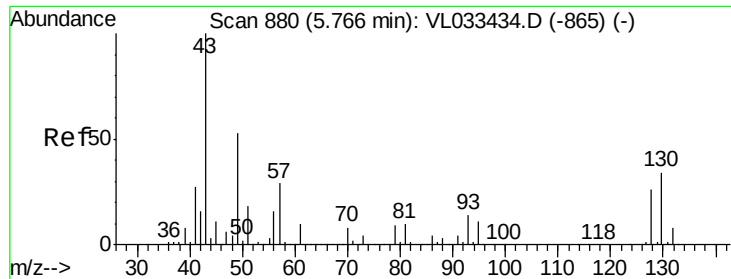


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





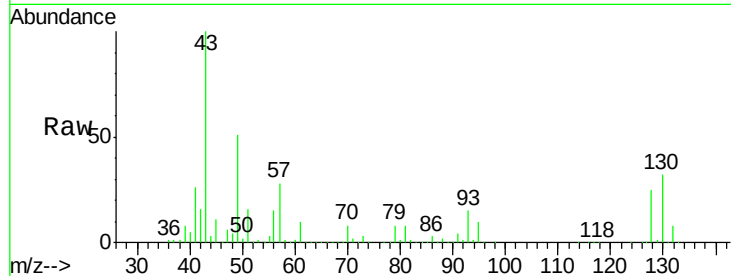
#25
Ethyl Acetate
Concen: 9.746 ppbv
RT: 5.76 min Scan# 879
Delta R.T. -0.00 min
Lab File: VL033466.D
Acq: 27 Mar 2019 13:29

Instrument :
MSVOA_L
ClientSampleId :
VL0327ABS01

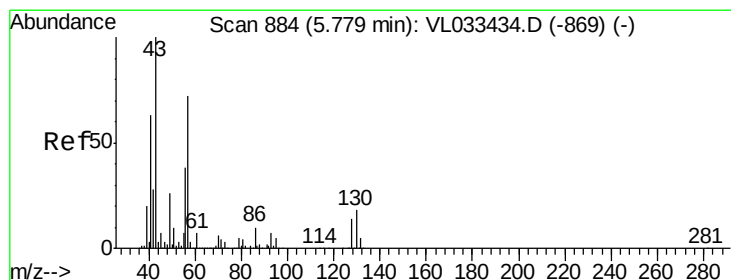
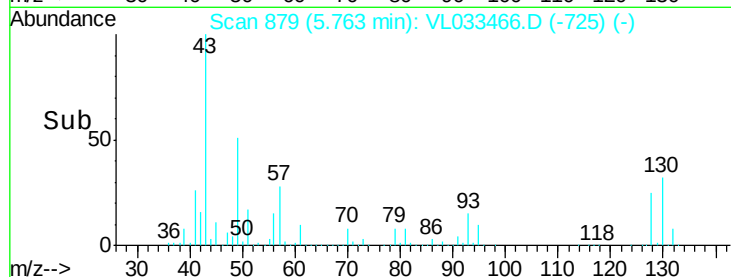
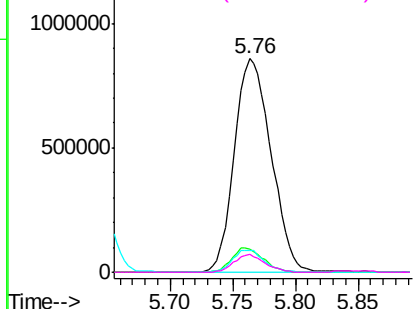
Tot Ion:	43	Resp:	1745883
Ion	Ratio	Lower	Upper
43	100		
45	9.9	7.8	11.6
61	8.9	7.3	10.9
70	7.0	5.6	8.4

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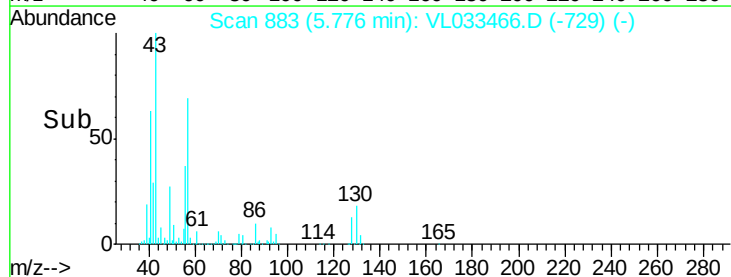
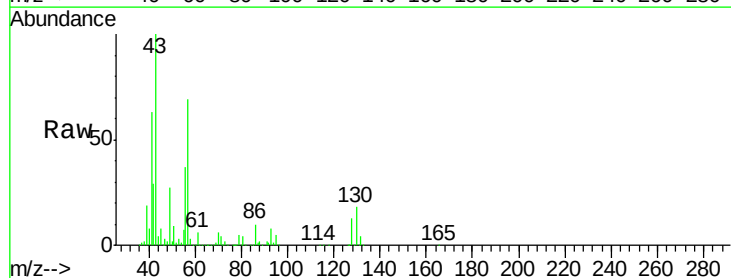
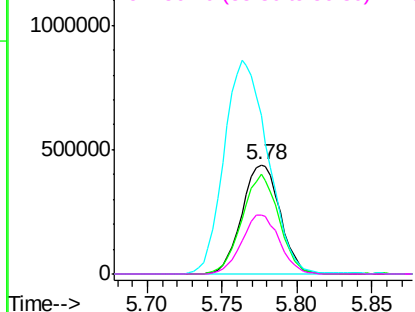
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

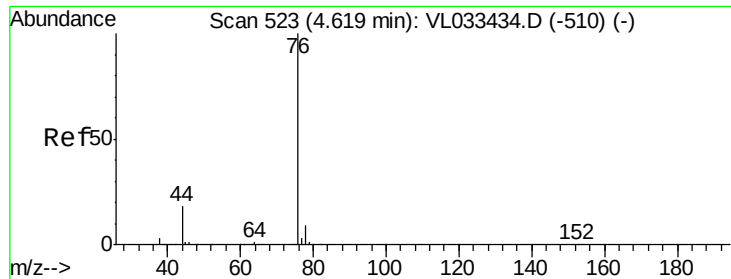


#26
Hexane
Concen: 9.752 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033466.D
Acq: 27 Mar 2019 13:29

Tgt Ion:	57	Resp:	776762
Ion	Ratio	Lower	Upper
57	100		
41	88.8	70.7	106.1
43	225.7	182.6	274.0
56	53.5	42.0	63.0

Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 11.028 ppbv

RT: 4.62 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

ClientSampleId :

VL0327ABS01

Tot Ion: 76 Resp: 1044552

Ion Ratio Lower Upper

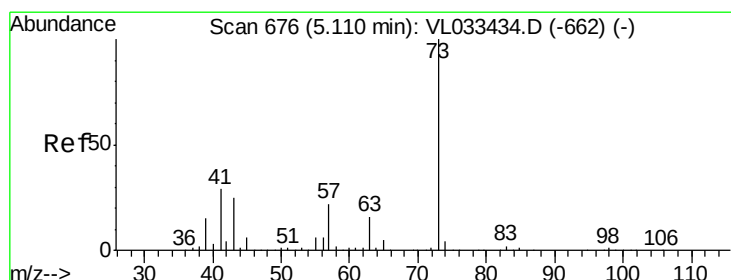
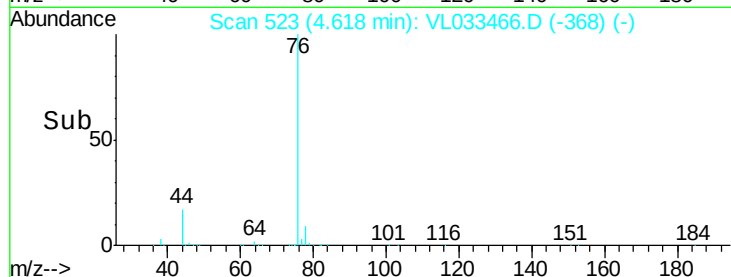
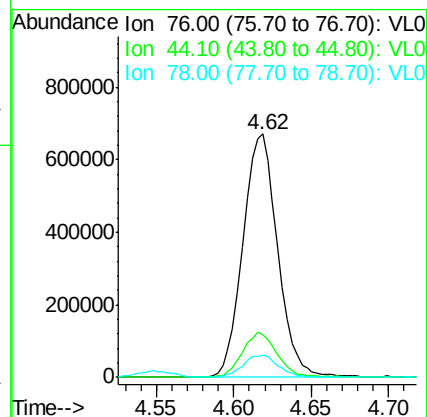
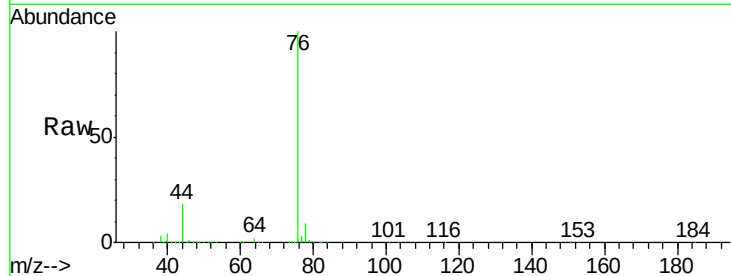
76 100

44 18.5 14.8 22.2

78 9.3 7.6 11.4

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#28

Methyl tert-Butyl Ether

Concen: 10.049 ppbv

RT: 5.11 min Scan# 676

Delta R.T. -0.00 min

Lab File: VL033466.D

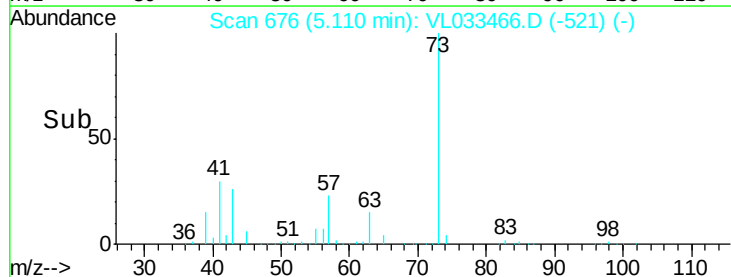
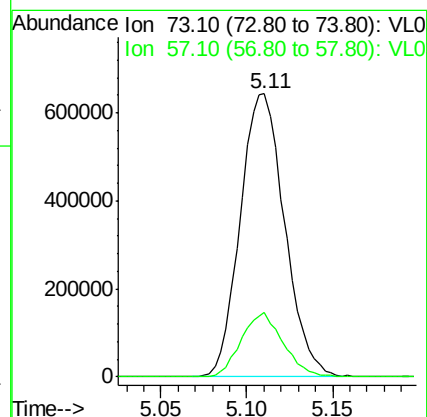
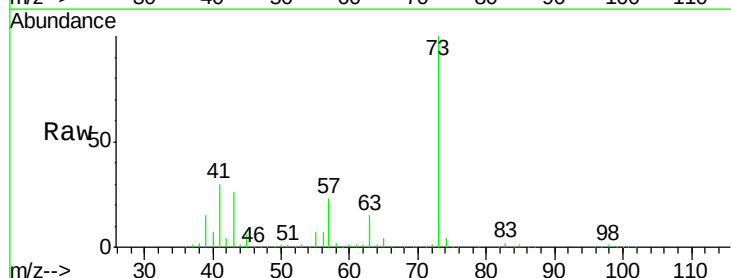
Acq: 27 Mar 2019 13:29

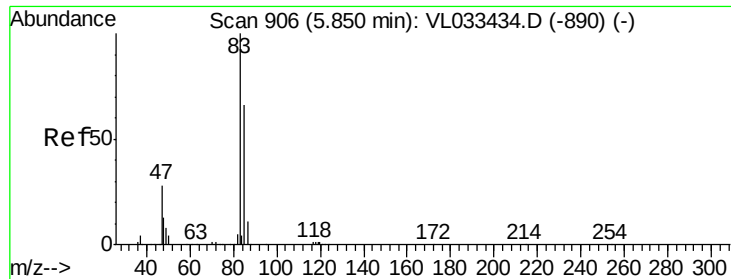
Tgt Ion: 73 Resp: 1152887

Ion Ratio Lower Upper

73 100

57 21.6 17.4 26.2





#29

Chloroform

Concen: 9.604 ppbv

RT: 5.85 min Scan# 905

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

ClientSampleId :

VL0327ABS01

Tot Ion: 83 Resp: 1311276

Ion Ratio Lower Upper

83 100

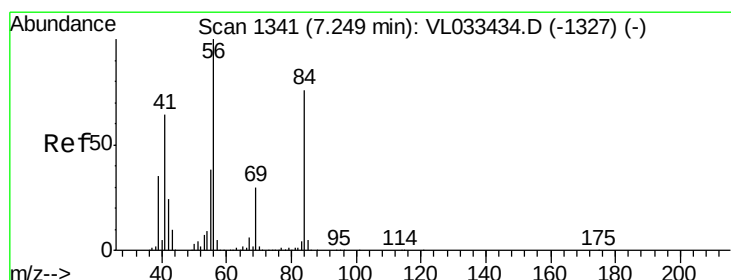
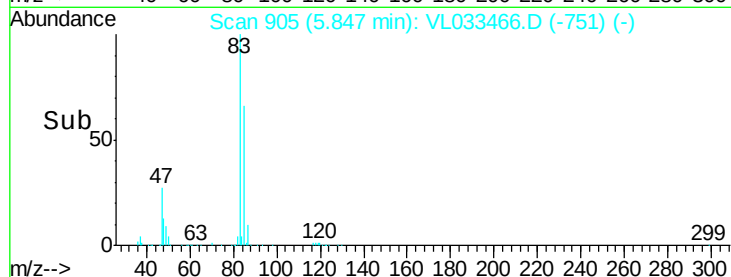
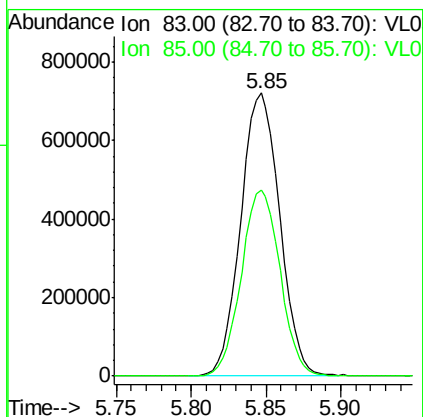
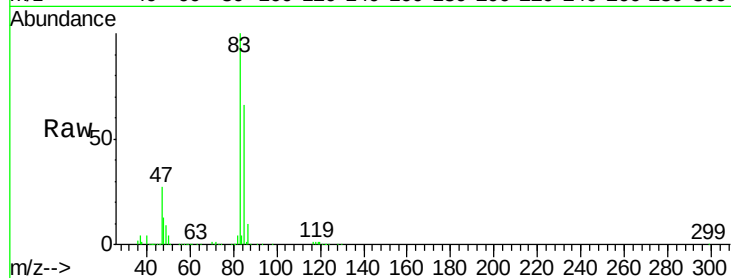
85 65.6 52.6 79.0

Manual Integrations

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#30

Cyclohexane

Concen: 10.531 ppbv

RT: 7.24 min Scan# 1339

Delta R.T. -0.01 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

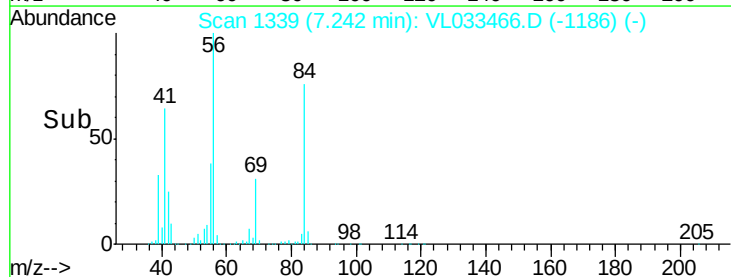
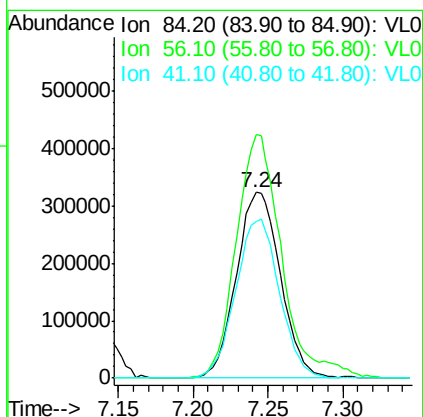
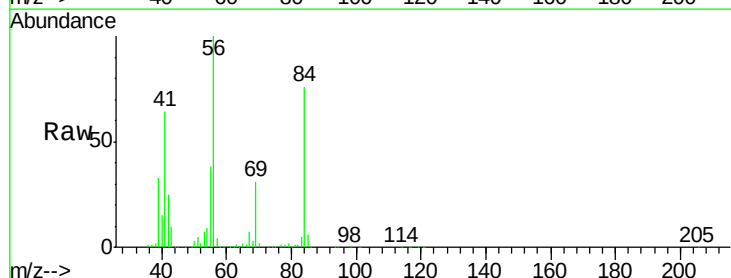
Tgt Ion: 84 Resp: 663560

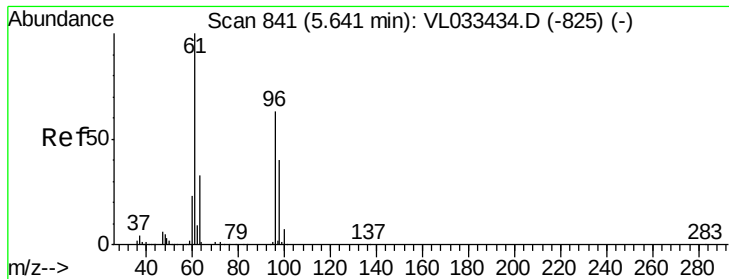
Ion Ratio Lower Upper

84 100

56 135.5 109.7 164.5

41 85.2 68.2 102.2





#31

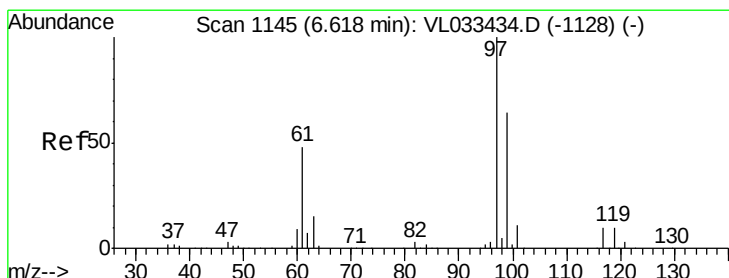
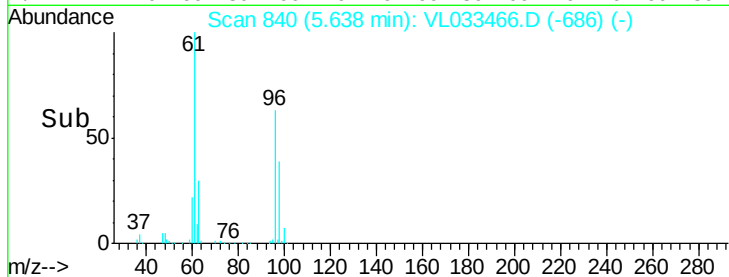
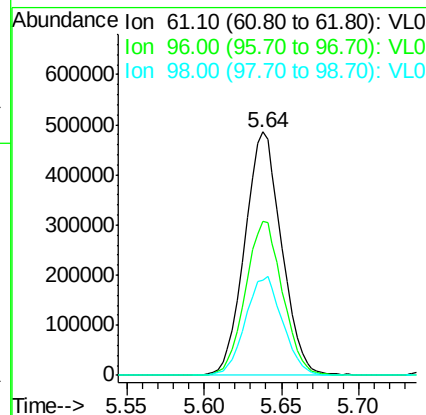
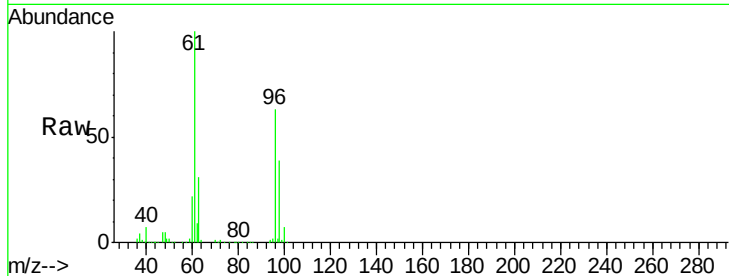
cis-1,2-Dichloroethene
 Concen: 10.139 ppbv
 RT: 5.64 min Scan# 840
 Delta R.T. -0.00 min
 Lab File: VL033466.D
 Acq: 27 Mar 2019 13:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0327ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	63.4	50.6	76.0
98	39.2	32.2	48.2

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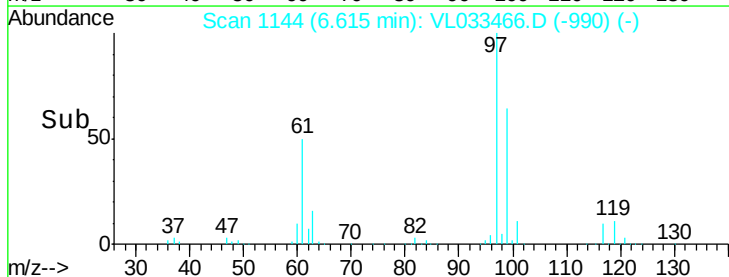
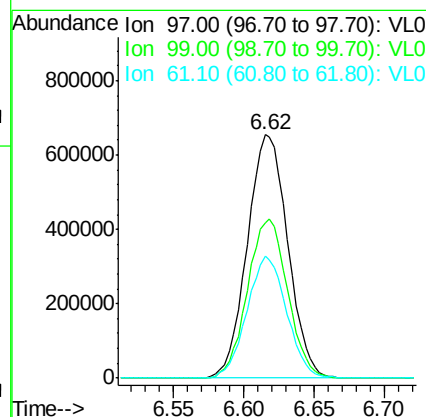
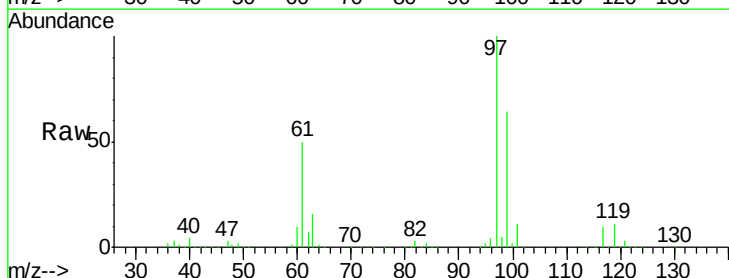
MMDadoda
 4/1/2019 1:25:44 AM

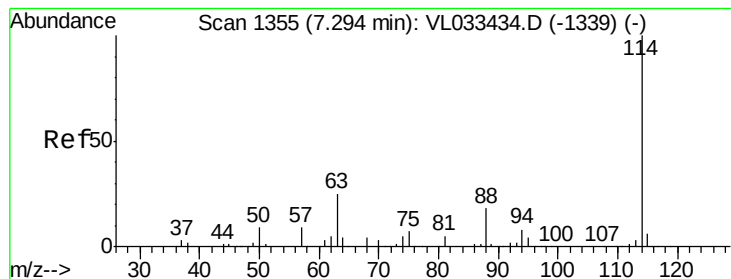


#32

1,1,1-Trichloroethane
 Concen: 10.140 ppbv
 RT: 6.62 min Scan# 1144
 Delta R.T. -0.00 min
 Lab File: VL033466.D
 Acq: 27 Mar 2019 13:29

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.7	51.5	77.3
61	49.2	38.8	58.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1354

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

ClientSampleID :

VL0327ABS01

Tot Ion:114 Resp: 1890747

Ion Ratio Lower Upper

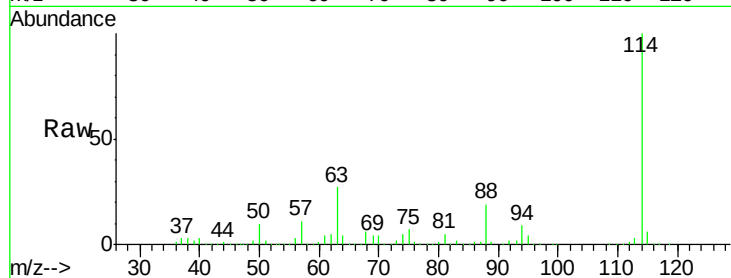
114 100

63 27.2 21.5 32.3

88 18.1 14.5 21.7

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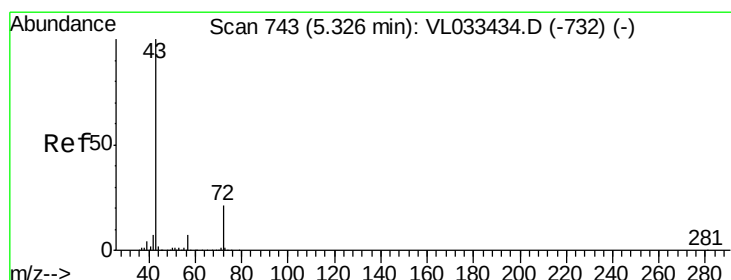
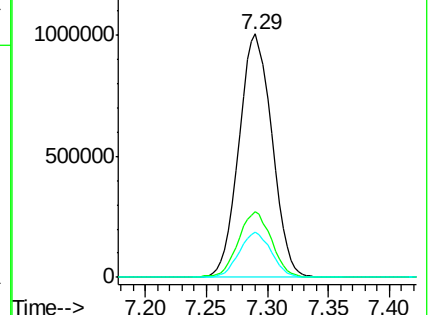
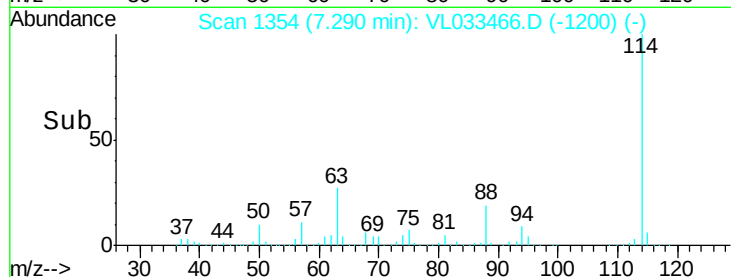
MMDadoda
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Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 9.900 ppbv

RT: 5.33 min Scan# 743

Delta R.T. -0.00 min

Lab File: VL033466.D

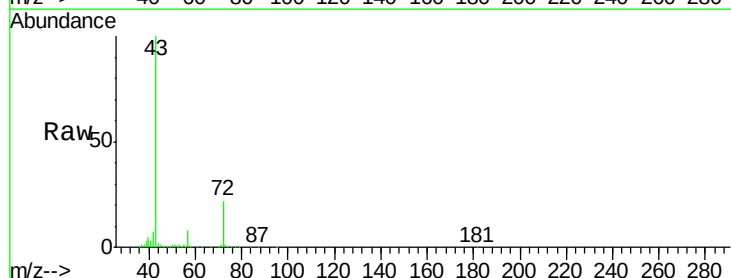
Acq: 27 Mar 2019 13:29

Tgt Ion: 43 Resp: 1124606

Ion Ratio Lower Upper

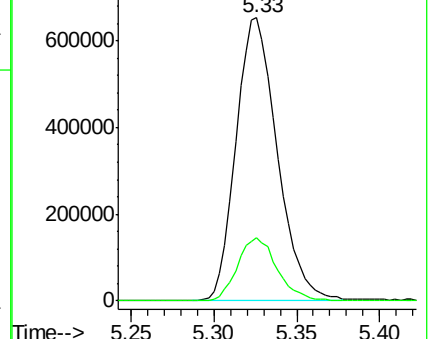
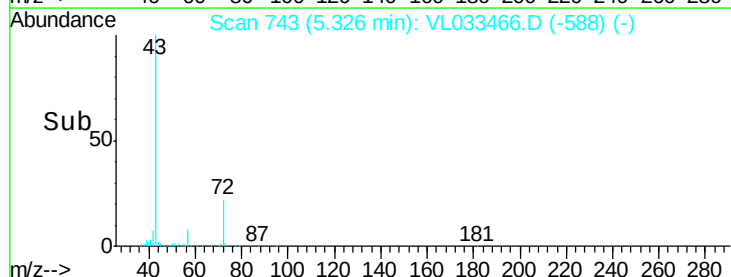
43 100

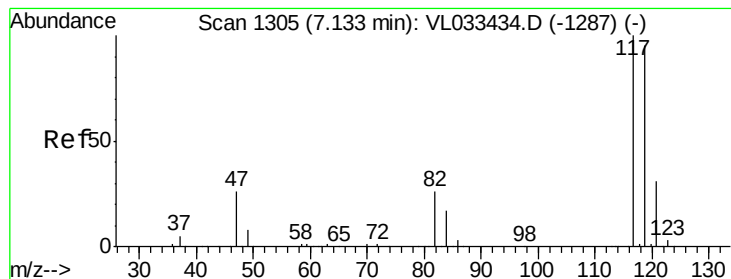
72 21.7 17.4 26.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 10.614 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

ClientSampleId :

VL0327ABS01

Tot Ion:117 Resp: 1421449

Ion Ratio Lower Upper

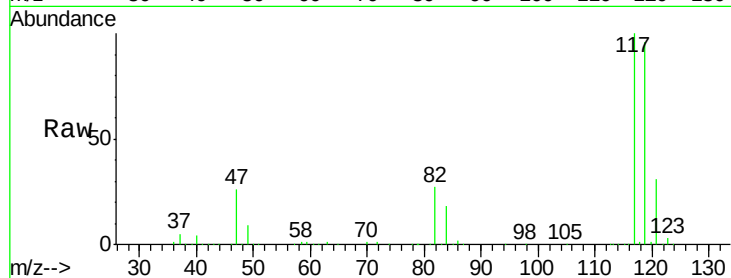
117 100

119 96.0 75.8 113.8

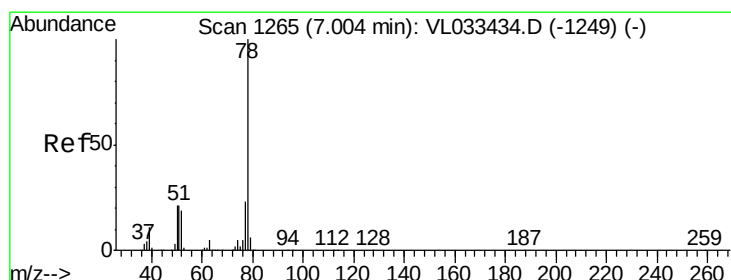
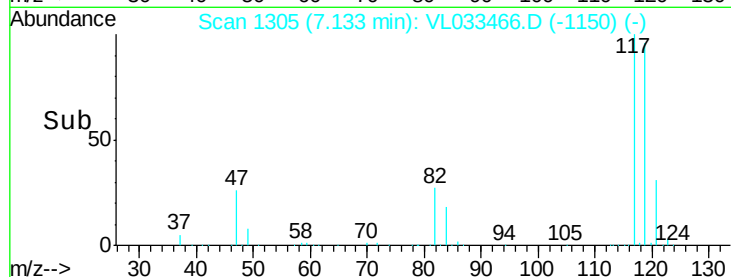
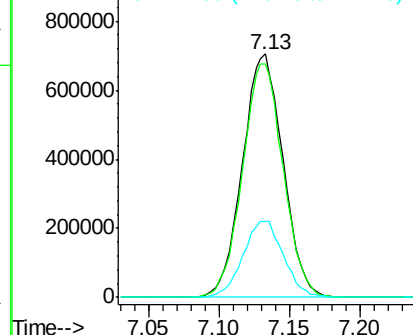
121 31.0 24.7 37.1

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



#36

Benzene

Concen: 10.248 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

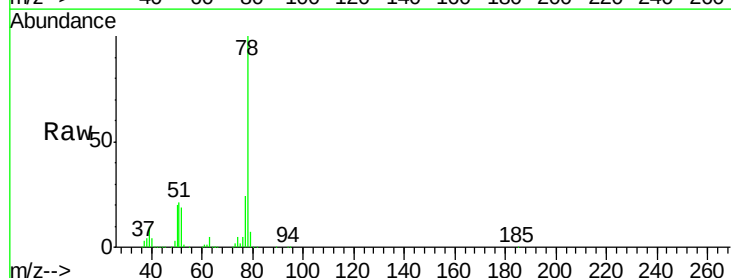
Tgt Ion: 78 Resp: 1625803

Ion Ratio Lower Upper

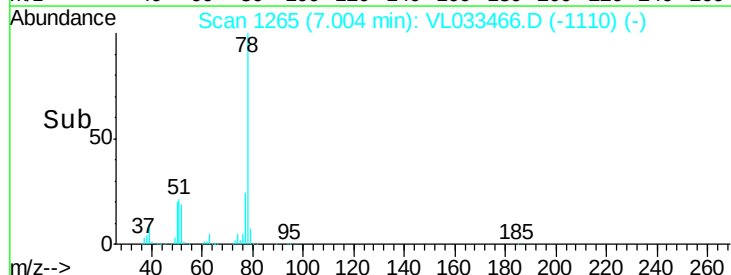
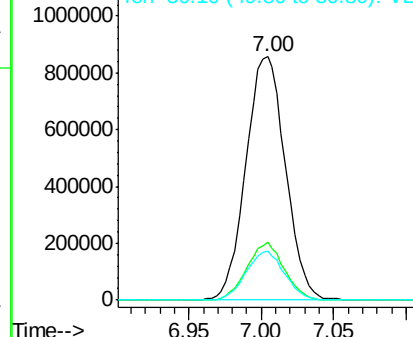
78 100

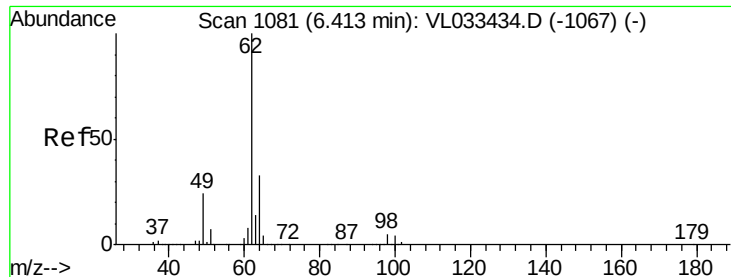
77 23.7 18.1 27.1

50 20.4 16.7 25.1



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





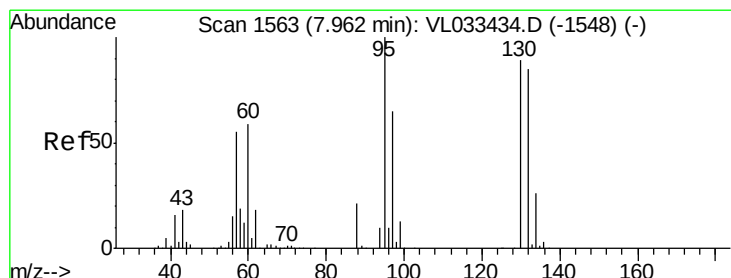
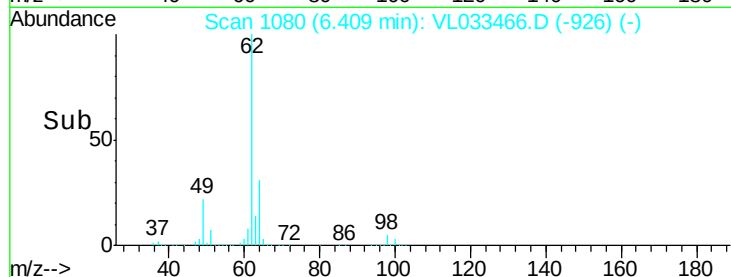
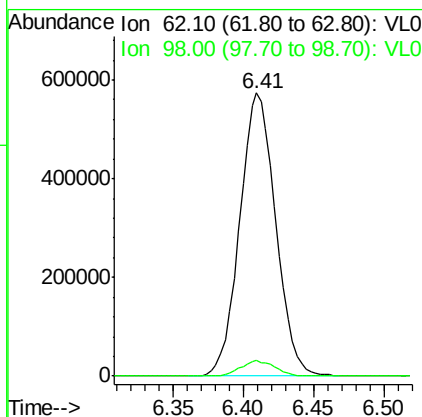
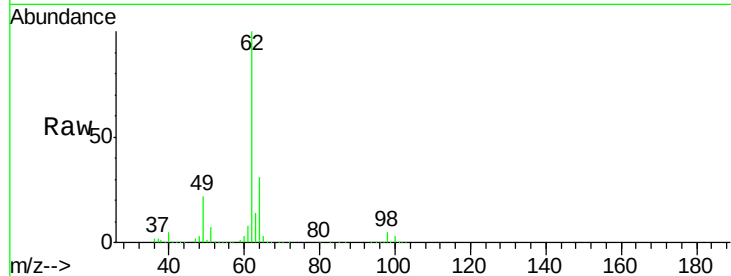
#37
 1,2-Dichloroethane
 Concen: 9.623 ppbv
 RT: 6.41 min Scan# 1080
 Delta R.T. -0.00 min
 Lab File: VL033466.D
 Acq: 27 Mar 2019 13:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0327ABS01

Tot Ion: 62 Resp: 1023262
 Ion Ratio Lower Upper
 62 100
 98 5.3 4.4 6.6

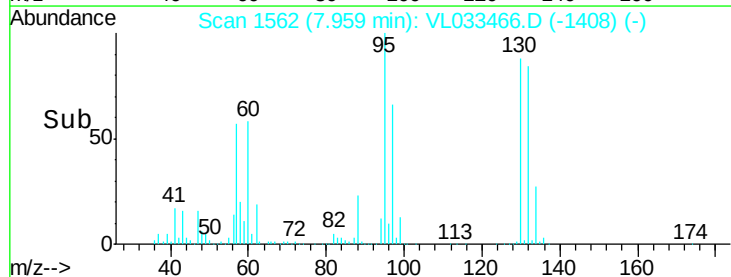
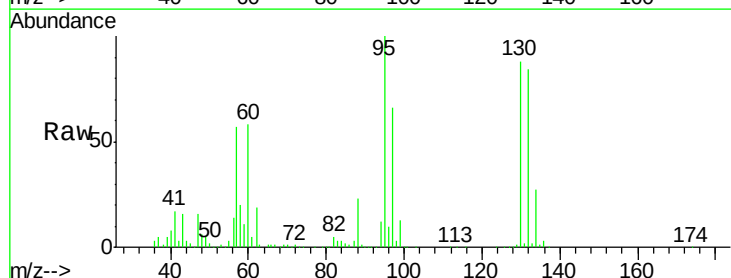
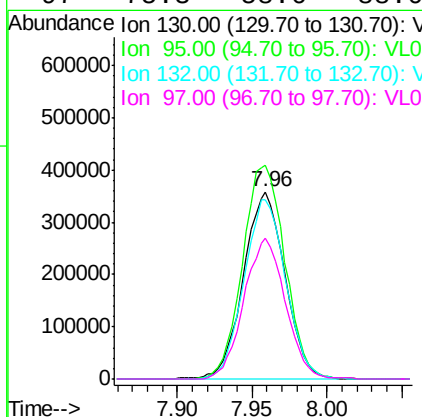
Manual Integrations
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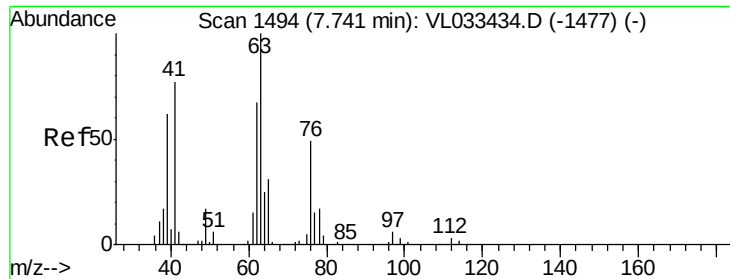
MMDadoda
 4/1/2019 1:25:44 AM



#38
 Trichloroethene
 Concen: 11.540 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. -0.00 min
 Lab File: VL033466.D
 Acq: 27 Mar 2019 13:29

Tgt Ion: 130 Resp: 689000
 Ion Ratio Lower Upper
 130 100
 95 113.9 89.8 134.8
 132 95.9 76.6 115.0
 97 75.3 58.6 88.0





#39

1,2-Dichloropropane

Concen: 10.393 ppbv

RT: 7.73 min Scan# 1492

Delta R.T. -0.01 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

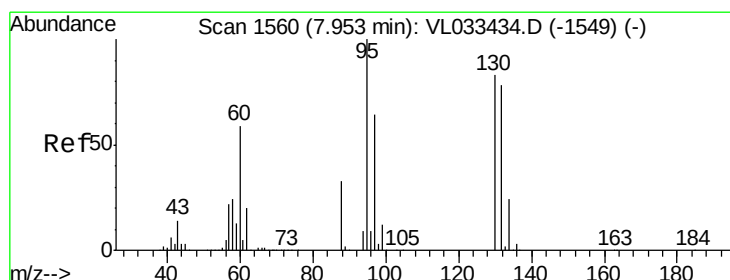
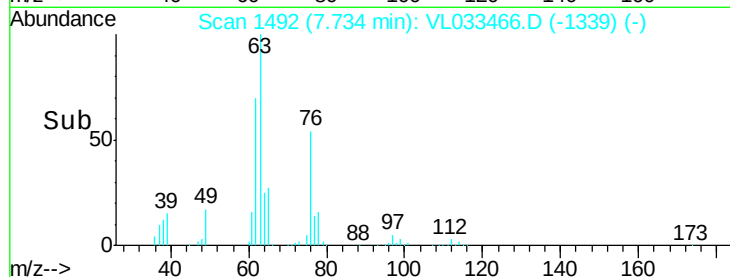
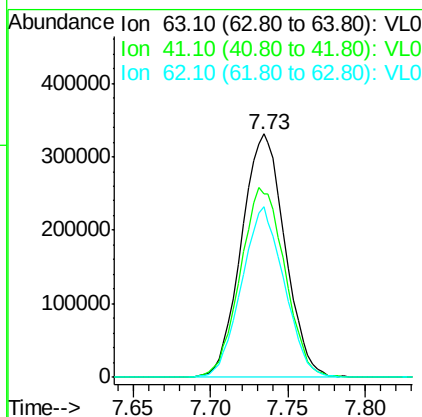
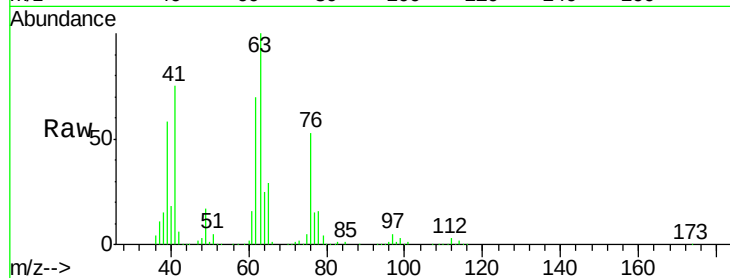
ClientSampleId :

VL0327ABS01

Tot Ion:	63	Resp:	645916
Ion	Ratio	Lower	Upper
63	100		
41	75.4	61.2	91.8
62	69.7	54.0	81.0

Manual Integrations
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#40

1,4-Dioxane

Concen: 11.916 ppbv

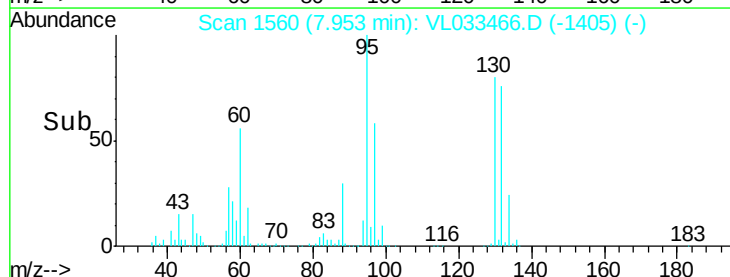
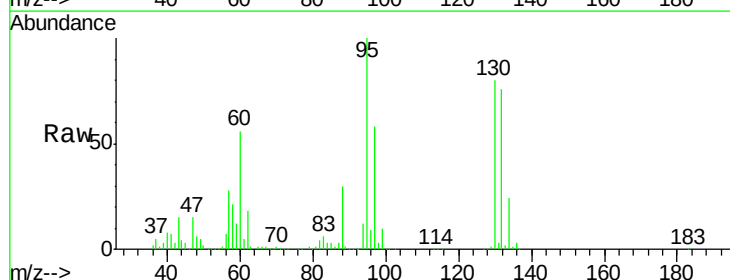
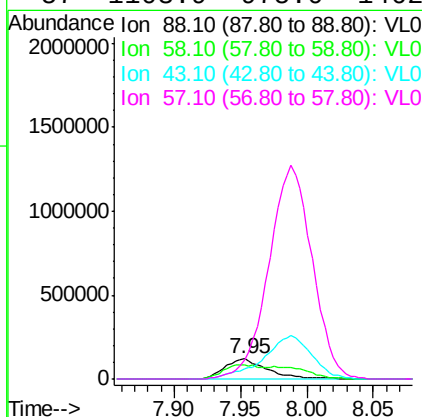
RT: 7.95 min Scan# 1560

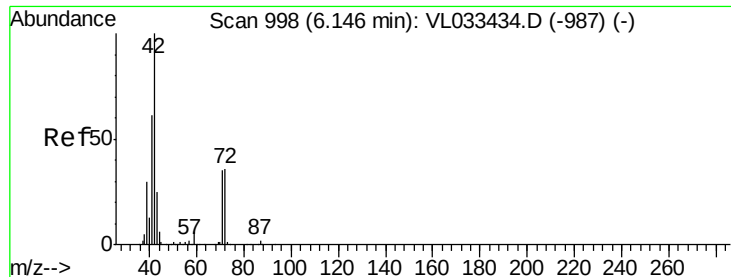
Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Tgt Ion:	88	Resp:	264134
Ion	Ratio	Lower	Upper
88	100		
58	123.1	105.6	158.4
43	250.6	216.7	325.1
57	1103.9	975.0	1462.4





#41

Tetrahydrofuran

Concen: 10.104 ppbv

RT: 6.14 min Scan# 997

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

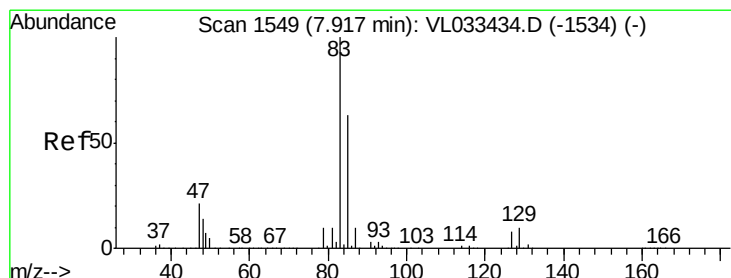
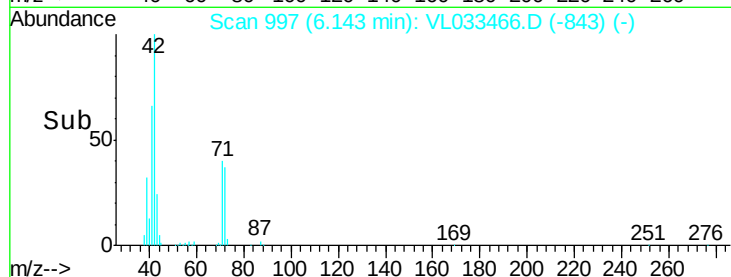
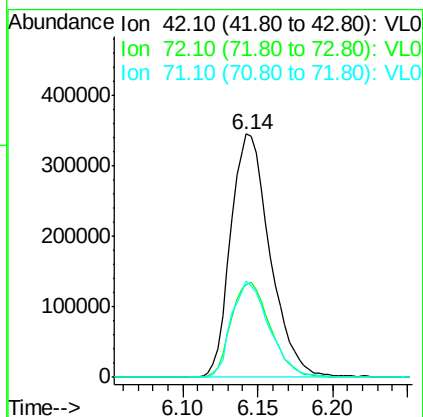
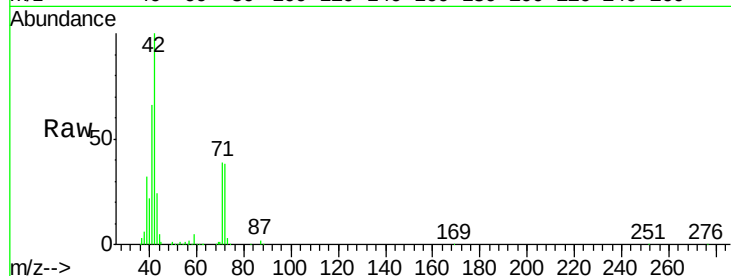
ClientSampleId :

VL0327ABS01

Tot Ion:	42	Resp:	631341
Ion Ratio		Lower	Upper
42	100		
72	39.0	30.2	45.2
71	38.1	29.4	44.2

Manual Integrations
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#42

Bromodichloromethane

Concen: 10.713 ppbv

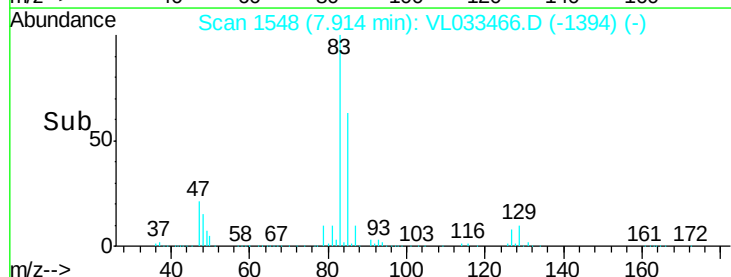
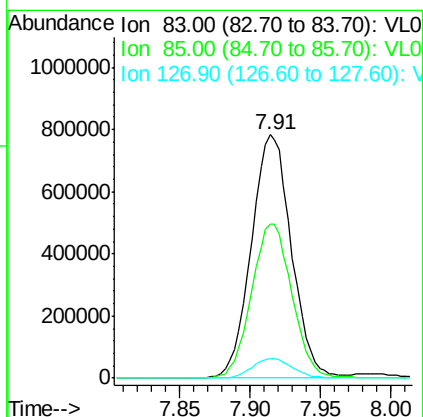
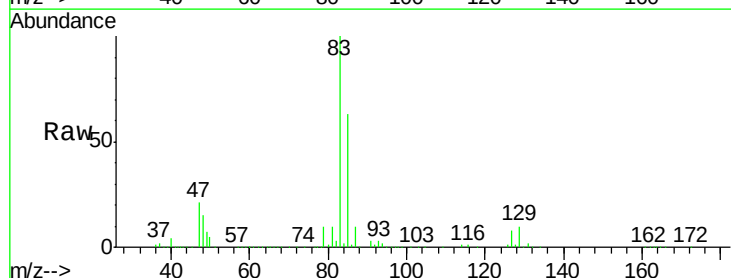
RT: 7.91 min Scan# 1548

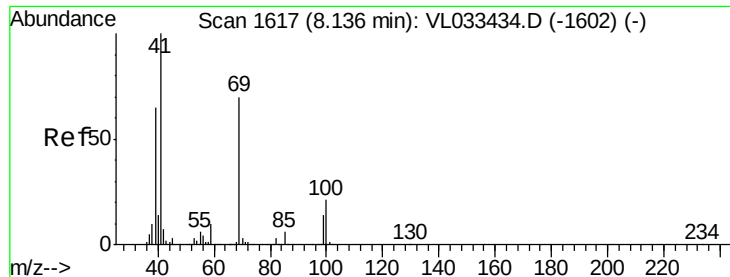
Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Tgt Ion:	83	Resp:	1551575
Ion Ratio		Lower	Upper
83	100		
85	63.3	50.7	76.1
127	8.0	6.6	9.8





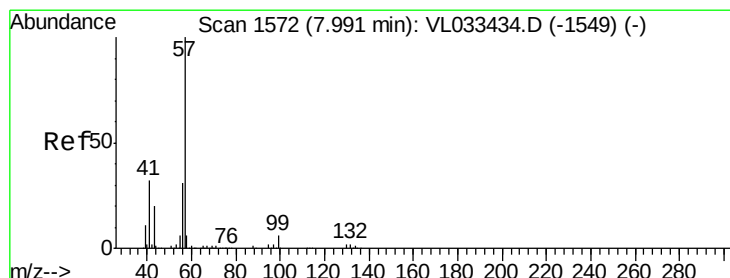
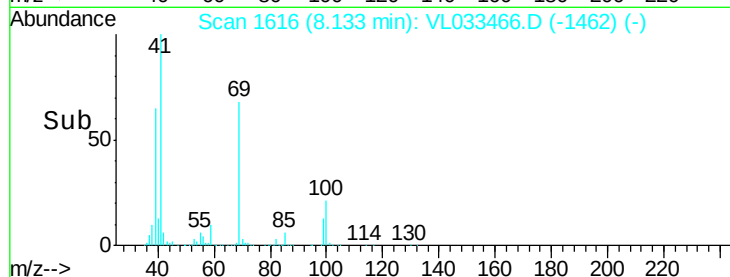
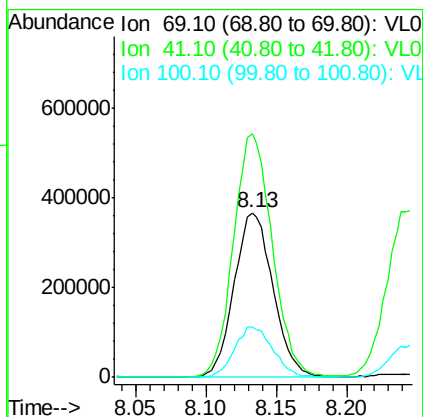
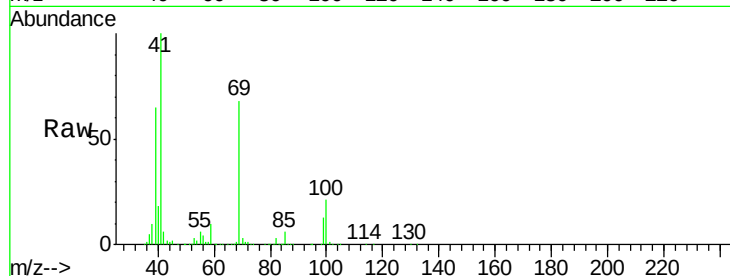
#43
Methyl Methacrylate
Concen: 10.996 ppbv
RT: 8.13 min Scan# 1616
Delta R.T. -0.00 min
Lab File: VL033466.D
Acq: 27 Mar 2019 13:29

Instrument :
MSVOA_L
ClientSampleId :
VL0327ABS01

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	147.7	116.6	174.8	
100	30.5	24.4	36.6	

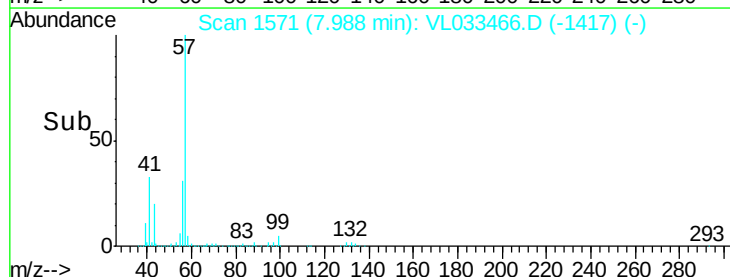
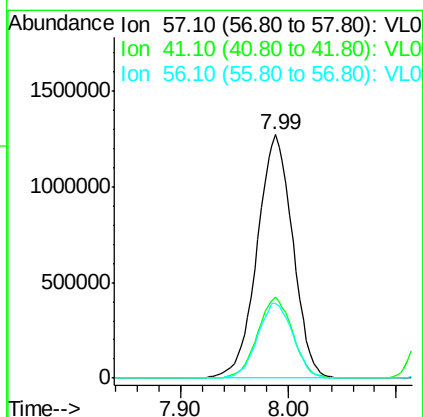
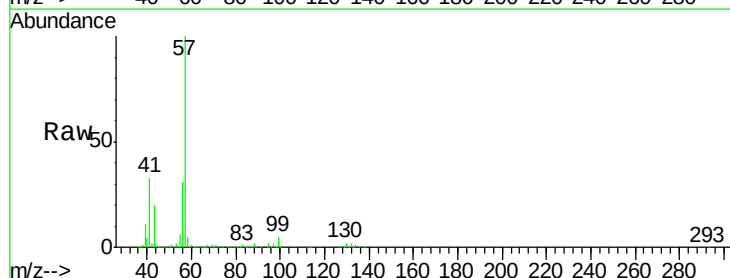
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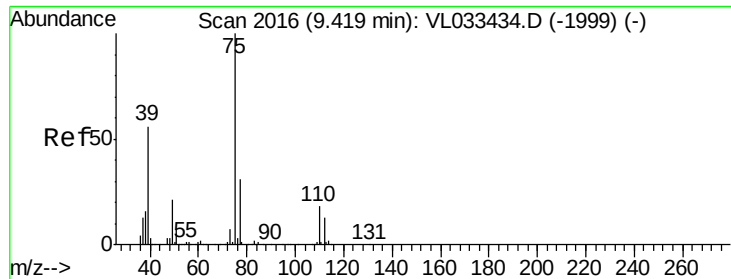
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#44
2,2,4-Trimethylpentane
Concen: 10.500 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. -0.00 min
Lab File: VL033466.D
Acq: 27 Mar 2019 13:29

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	32.7	26.0	39.0	
56	30.8	24.6	37.0	





#45

t-1,3-Dichloropropene

Concen: 12.122 ppbv

RT: 9.41 min Scan# 2014

Delta R.T. -0.01 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

ClientSampleId :

VL0327ABS01

Tot Ion: 75 Resp: 958735

Ion Ratio Lower Upper

75 100

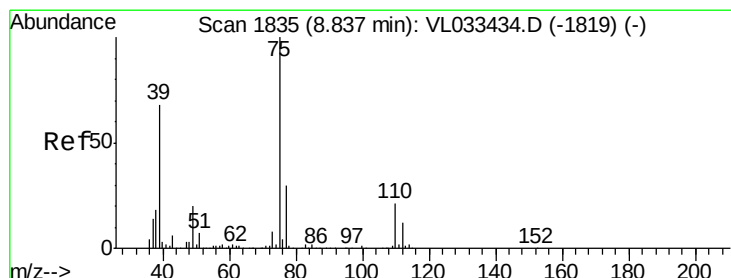
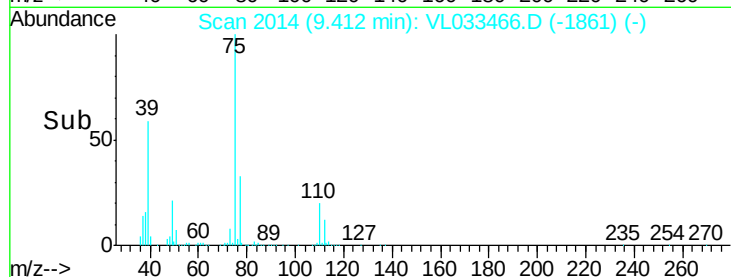
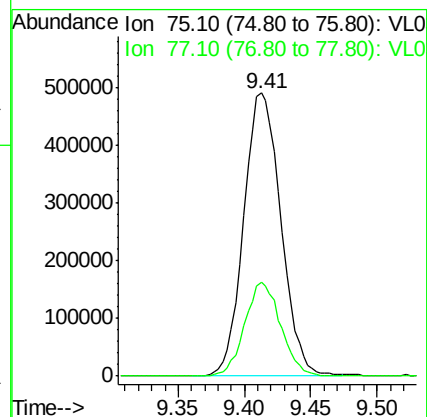
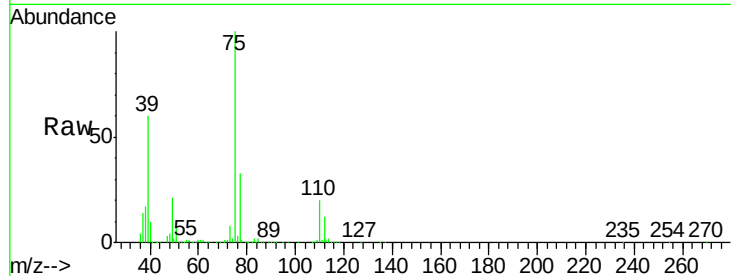
77 33.0 24.5 36.7

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#46

cis-1,3-Dichloropropene

Concen: 11.726 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

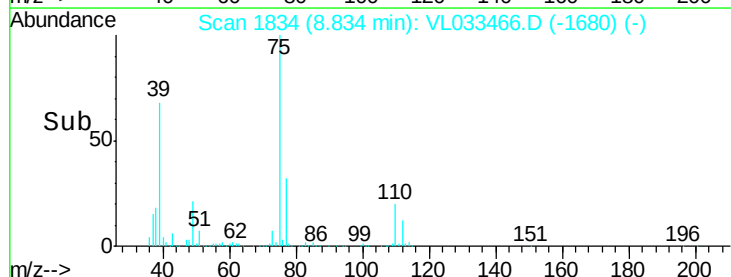
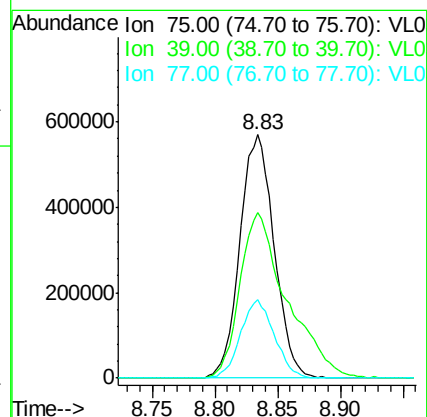
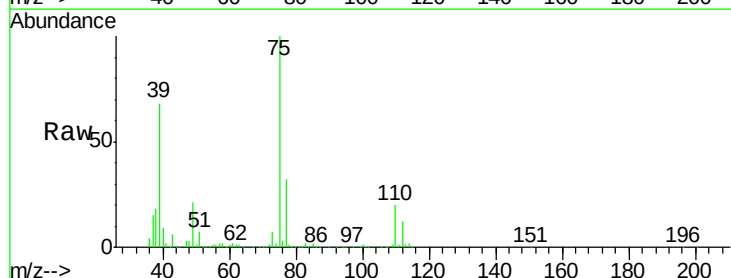
Tgt Ion: 75 Resp: 1083034

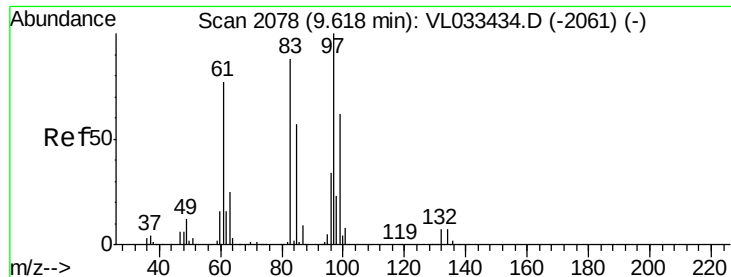
Ion Ratio Lower Upper

75 100

39 67.9 54.1 81.1

77 32.5 23.9 35.9





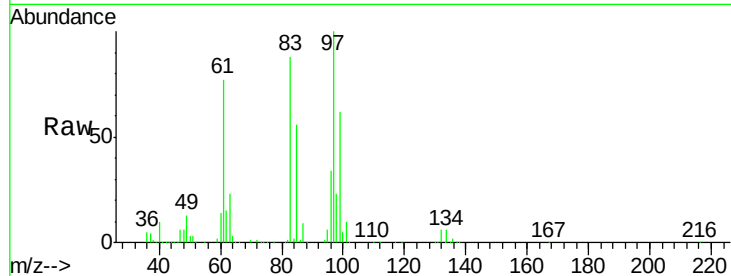
#47
 1,1,2-Trichloroethane
 Concen: 10.185 ppbv
 RT: 9.61 min Scan# 2076
 Delta R.T. -0.01 min
 Lab File: VL033466.D
 Acq: 27 Mar 2019 13:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0327ABS01

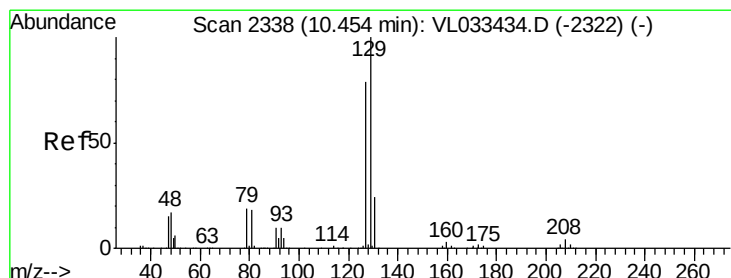
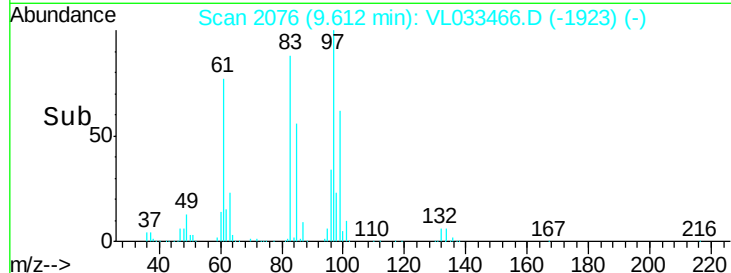
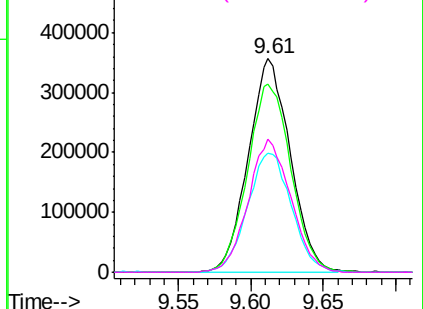
Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	87.9	70.5	105.7	
85	55.5	45.6	68.4	
99	62.2	49.4	74.0	

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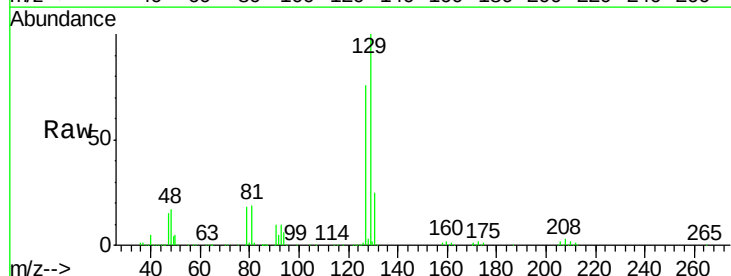


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

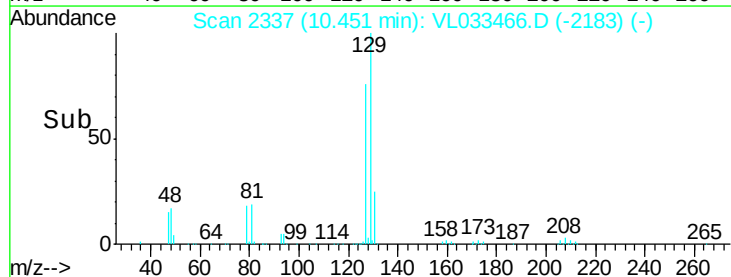
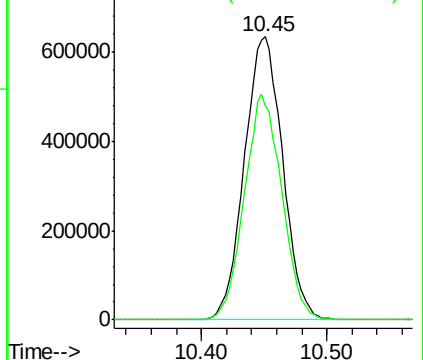


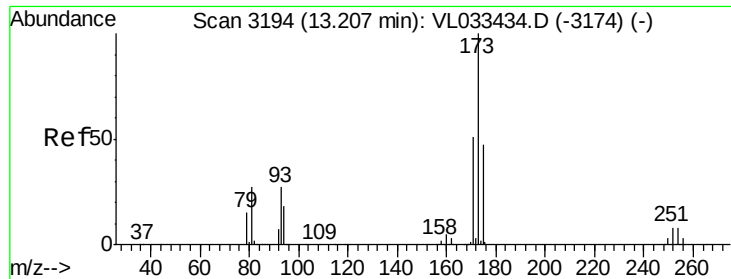
#48
 Dibromochloromethane
 Concen: 11.320 ppbv
 RT: 10.45 min Scan# 2337
 Delta R.T. -0.00 min
 Lab File: VL033466.D
 Acq: 27 Mar 2019 13:29

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.0	39.1	117.2	



Abundance Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 10.783 ppbv

RT: 13.20 min Scan# 3193

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

ClientSampleId :

VL0327ABS01

Tot Ion:173 Resp: 1226179

Ion Ratio Lower Upper

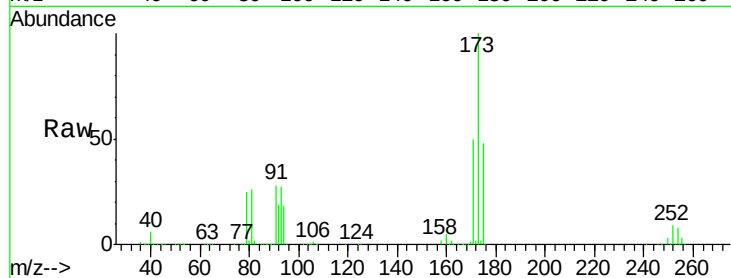
173 100

175 48.6 39.3 58.9

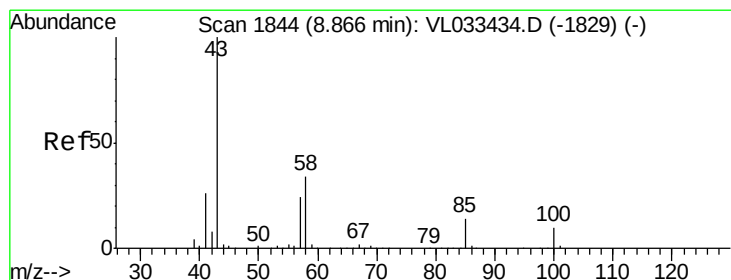
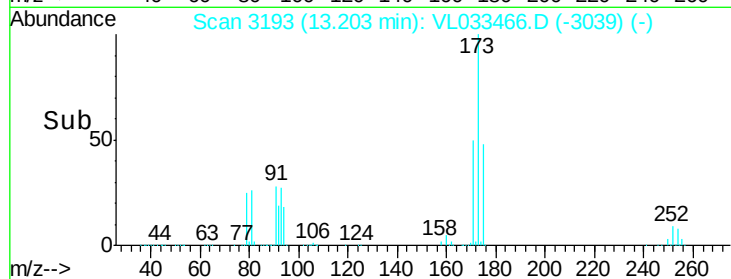
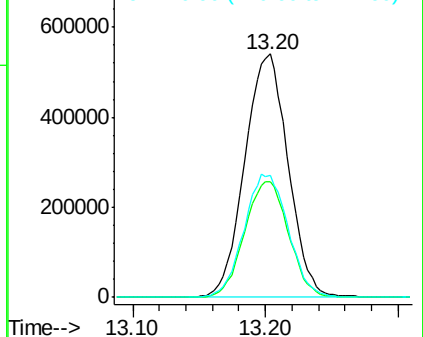
171 51.6 41.2 61.8

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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: 10.758 ppbv

RT: 8.87 min Scan# 1844

Delta R.T. -0.00 min

Lab File: VL033466.D

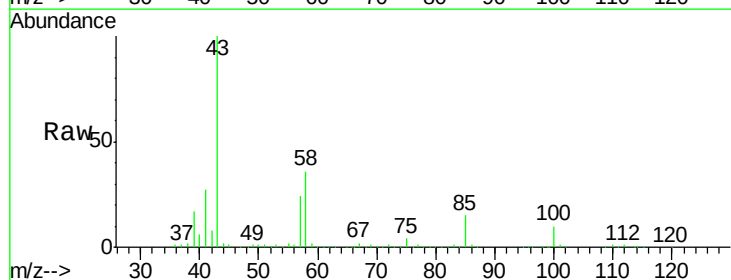
Acq: 27 Mar 2019 13:29

Tgt Ion: 43 Resp: 1789458

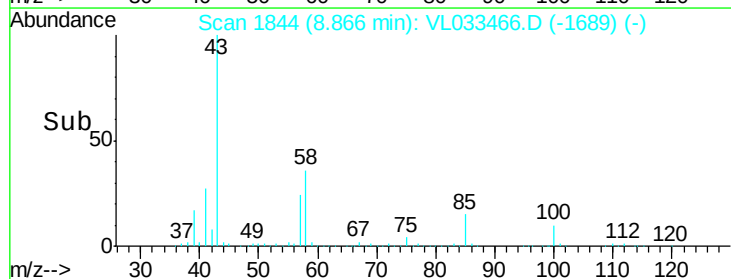
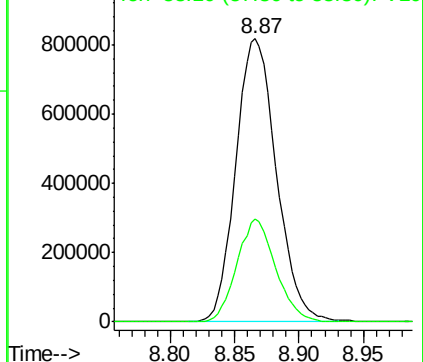
Ion Ratio Lower Upper

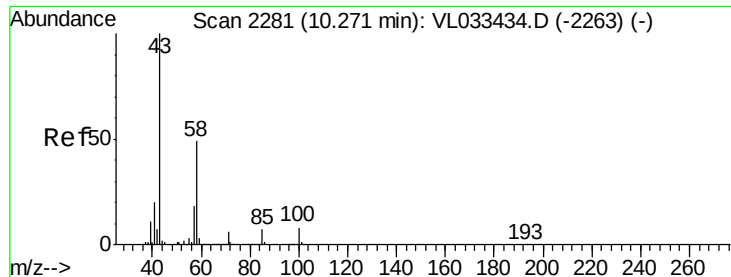
43 100

58 35.0 28.0 42.0



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





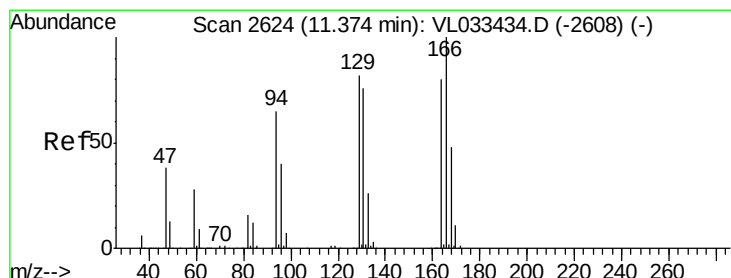
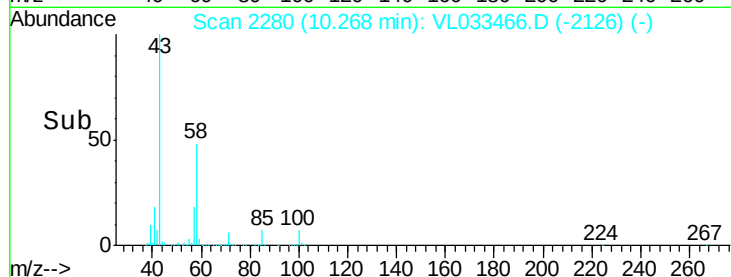
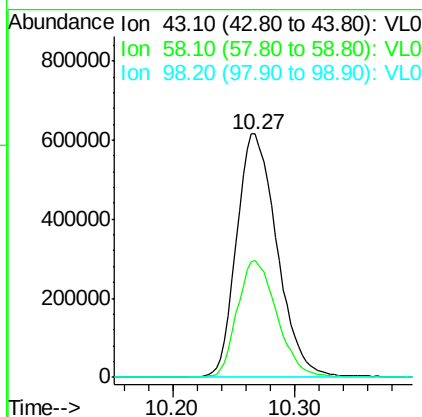
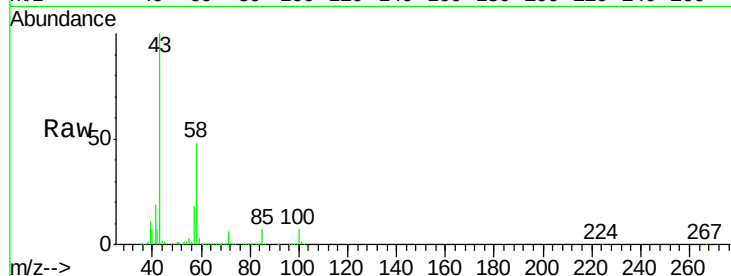
#51
2-Hexanone
Concen: 11.386 ppbv
RT: 10.27 min Scan# 2280
Delta R.T. -0.00 min
Lab File: VL033466.D
Acq: 27 Mar 2019 13:29

Instrument :
MSVOA_L
ClientSampleId :
VL0327ABS01

Tot Ion	Ratio	Lower	Upper
43	100		
58	47.2	38.2	57.2
98	0.2	0.2	0.2

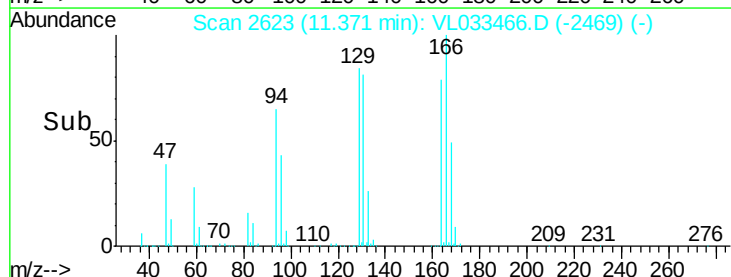
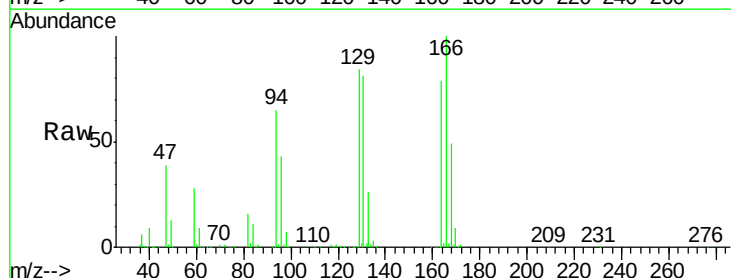
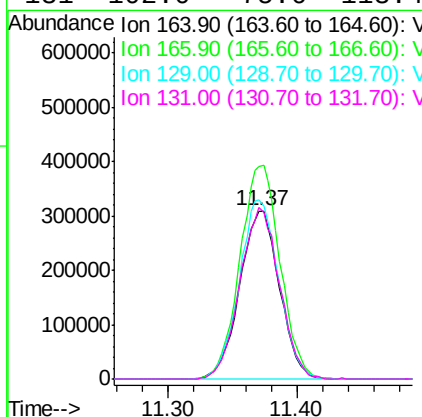
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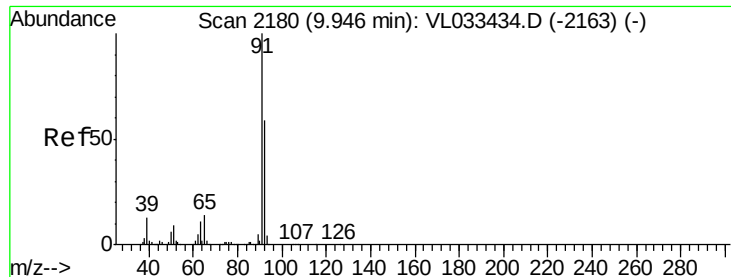
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#52
Tetrachloroethene
Concen: 11.078 ppbv
RT: 11.37 min Scan# 2623
Delta R.T. -0.00 min
Lab File: VL033466.D
Acq: 27 Mar 2019 13:29

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.5	99.5	149.3
129	106.1	81.4	122.2
131	102.0	75.6	113.4





#53

Toluene

Concen: 11.238 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

ClientSampleId :

VL0327ABS01

Tot Ion: 91 Resp: 2071723

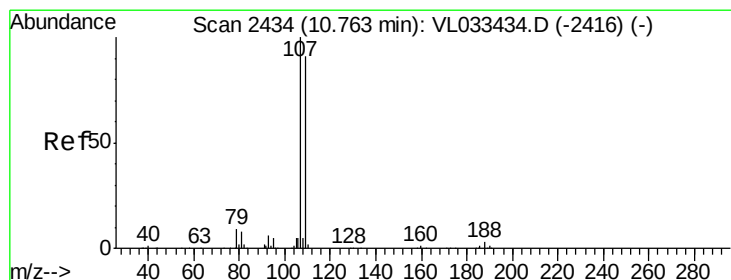
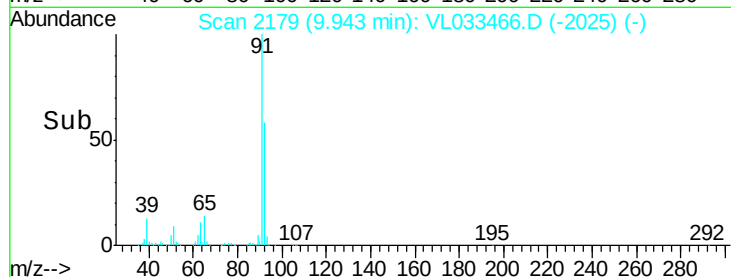
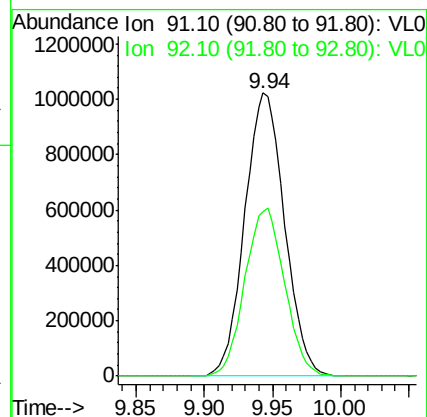
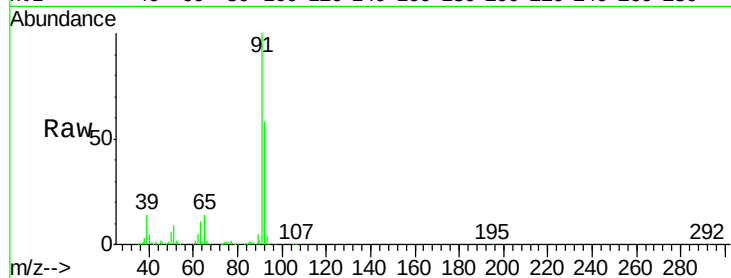
Ion Ratio Lower Upper

91 100

92 59.3 47.4 71.0

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#54

1,2-Dibromoethane

Concen: 10.694 ppbv

RT: 10.76 min Scan# 2432

Delta R.T. -0.01 min

Lab File: VL033466.D

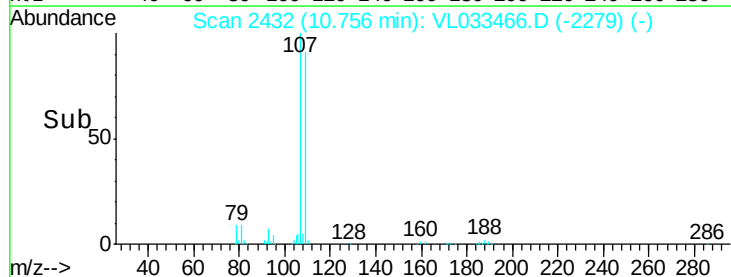
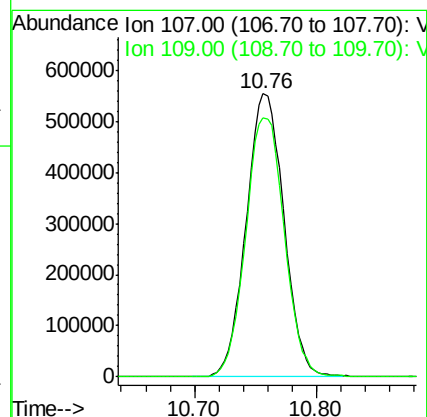
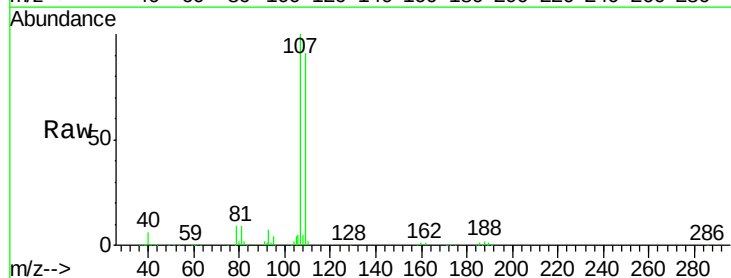
Acq: 27 Mar 2019 13:29

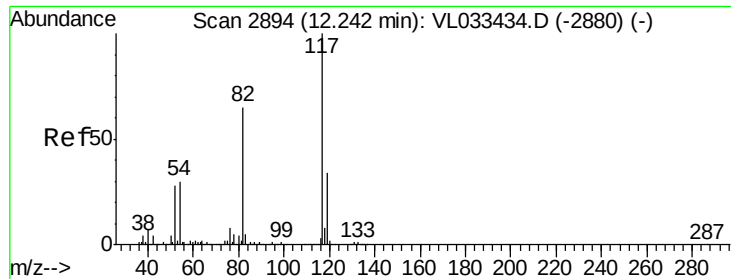
Tgt Ion: 107 Resp: 1180373

Ion Ratio Lower Upper

107 100

109 91.4 72.7 109.1





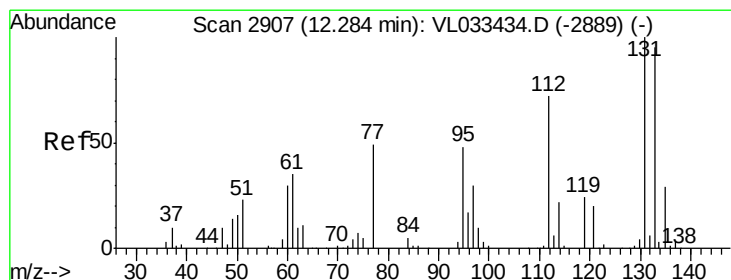
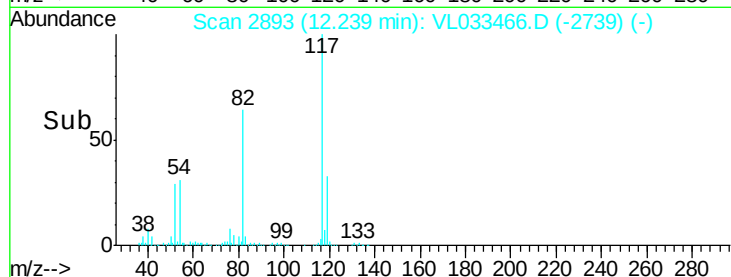
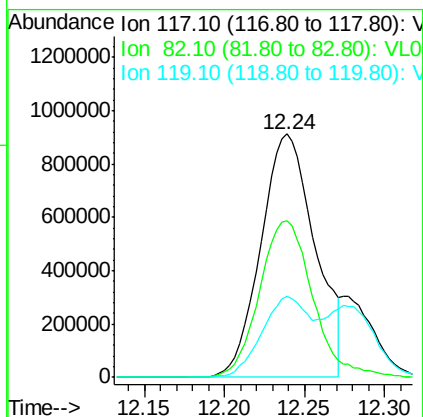
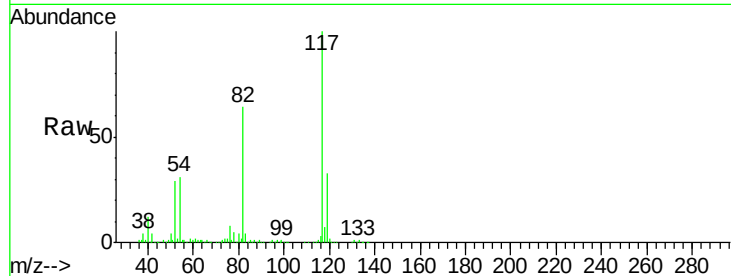
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2893
Delta R.T. -0.00 min
Lab File: VL033466.D
Acq: 27 Mar 2019 13:29

Instrument :
MSVOA_L
ClientSampleId :
VL0327ABS01

Tot Ion:117 Resp: 2144259
Ion Ratio Lower Upper
117 100
82 63.6 51.5 77.3
119 30.0 25.5 38.3

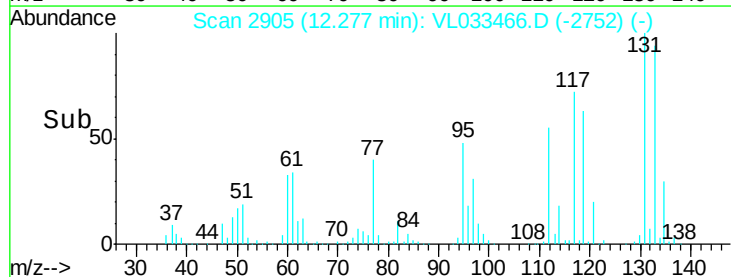
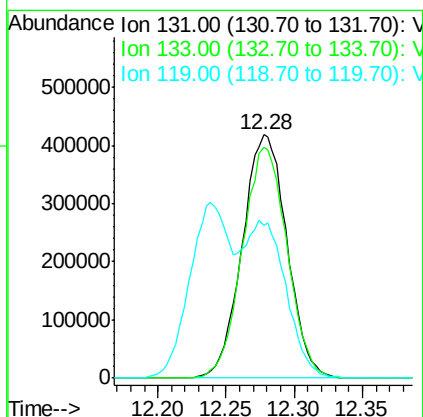
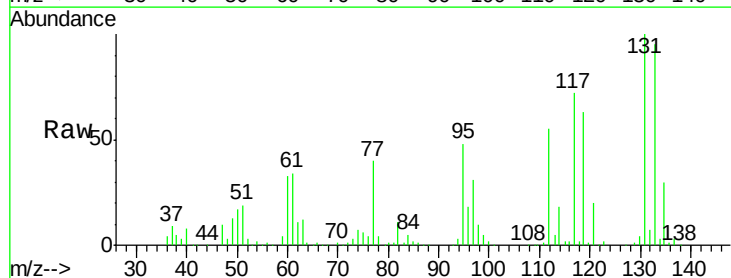
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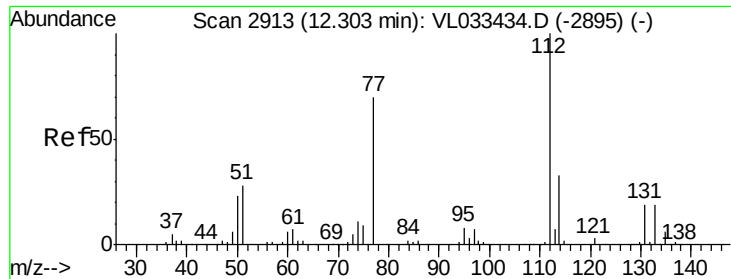
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.675 ppbv
RT: 12.28 min Scan# 2905
Delta R.T. -0.01 min
Lab File: VL033466.D
Acq: 27 Mar 2019 13:29

Tgt Ion:131 Resp: 950813
Ion Ratio Lower Upper
131 100
133 95.2 76.2 114.4
119 65.3 45.0 67.6





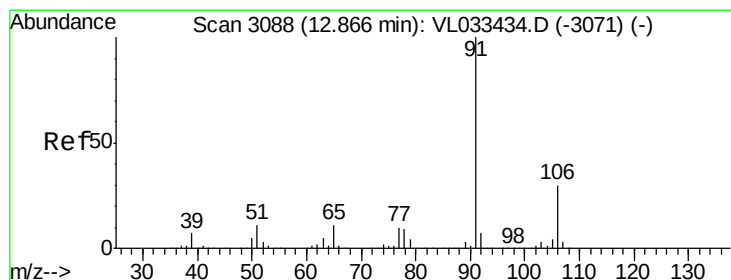
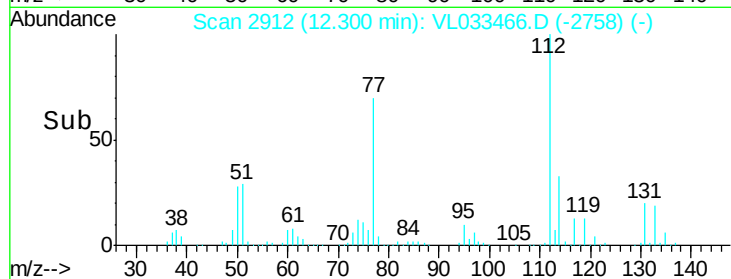
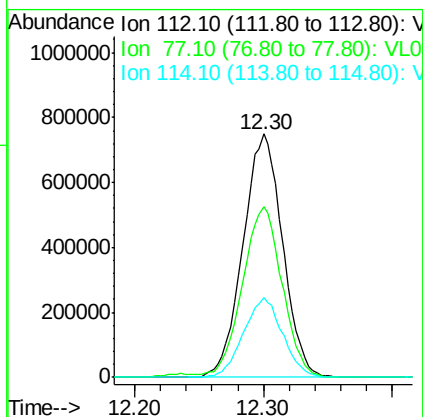
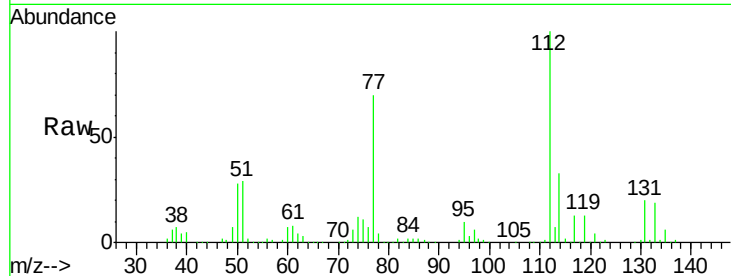
#57
Chlorobenzene
Concen: 9.610 ppbv
RT: 12.30 min Scan# 2912
Delta R.T. -0.00 min
Lab File: VL033466.D
Acq: 27 Mar 2019 13:29

Instrument :
MSVOA_L
ClientSampleId :
VL0327ABS01

Tot Ion:112 Resp: 1600048
Ion Ratio Lower Upper
112 100
77 70.1 57.3 85.9
114 32.7 29.8 36.4

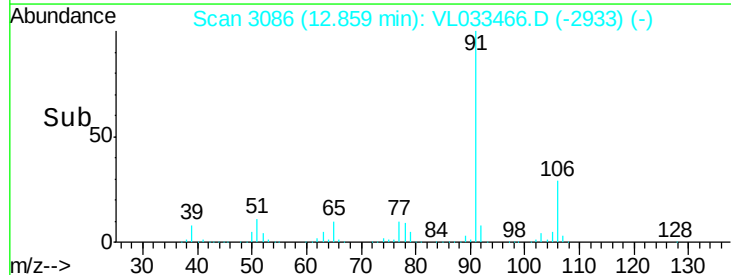
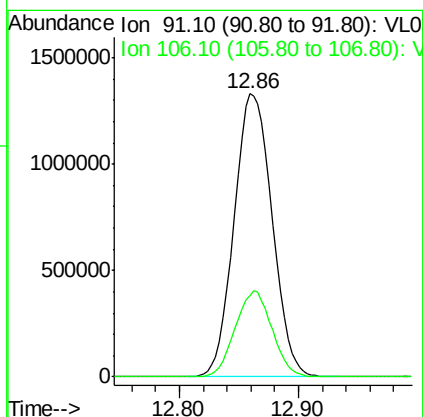
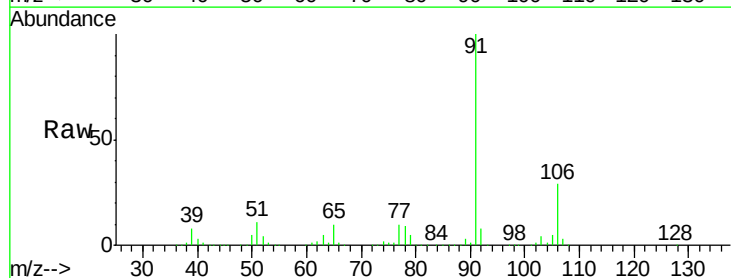
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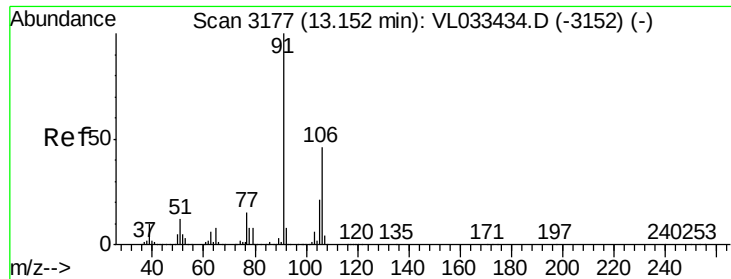
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#58
Ethyl Benzene
Concen: 10.282 ppbv
RT: 12.86 min Scan# 3086
Delta R.T. -0.01 min
Lab File: VL033466.D
Acq: 27 Mar 2019 13:29

Tgt Ion: 91 Resp: 2944287
Ion Ratio Lower Upper
91 100
106 28.7 23.8 35.6





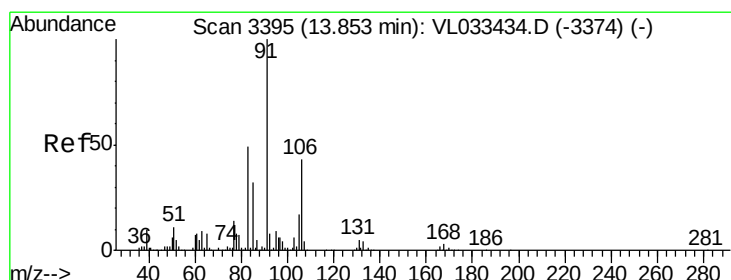
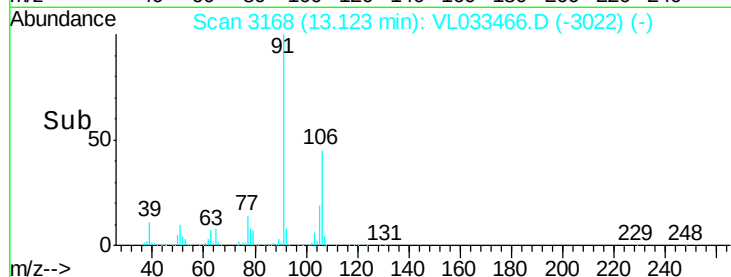
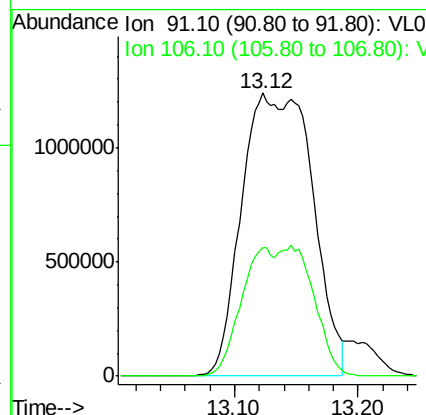
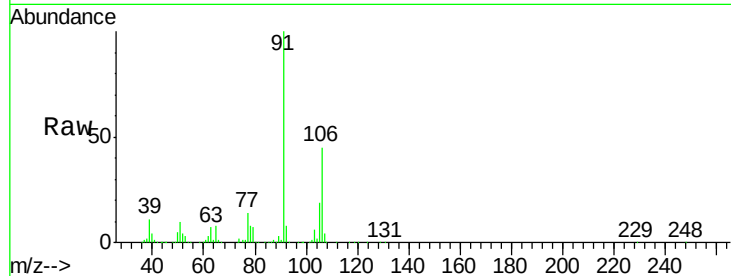
#59
m/p-Xylene
Concen: 19.289 ppbv m
RT: 13.12 min Scan# 3168
Delta R.T. -0.03 min
Lab File: VL033466.D
Acq: 27 Mar 2019 13:29

Instrument :
MSVOA_L
ClientSampleId :
VL0327ABS01

Tot Ion: 91 Resp: 4933452
Ion Ratio Lower Upper
91 100
106 45.1 0.0 0.0#

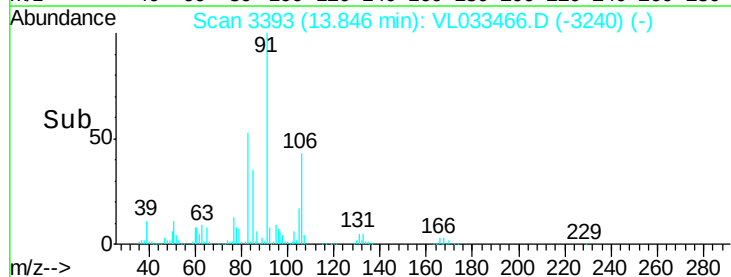
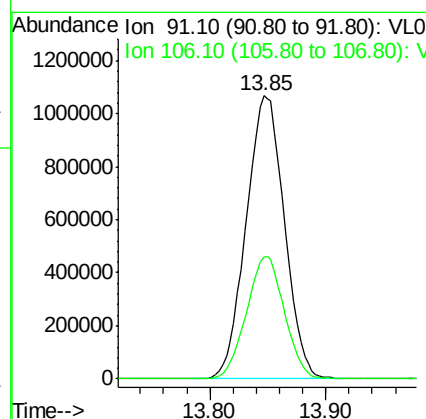
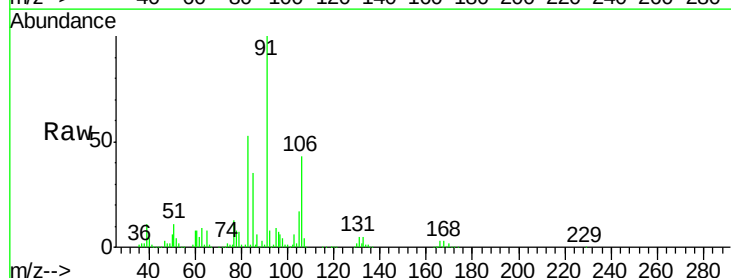
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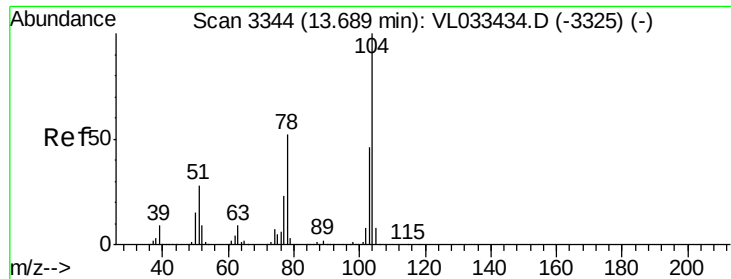
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#60
o-Xylene
Concen: 9.908 ppbv
RT: 13.85 min Scan# 3393
Delta R.T. -0.01 min
Lab File: VL033466.D
Acq: 27 Mar 2019 13:29

Tgt Ion: 91 Resp: 2450412
Ion Ratio Lower Upper
91 100
106 42.9 21.4 64.3





#61

Stvrene

Concen: 10.648 ppbv

RT: 13.68 min Scan# 3342

Delta R.T. -0.01 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

ClientSampleId :

VL0327ABS01

Tot Ion:104 Resp: 1807543

Ion Ratio Lower Upper

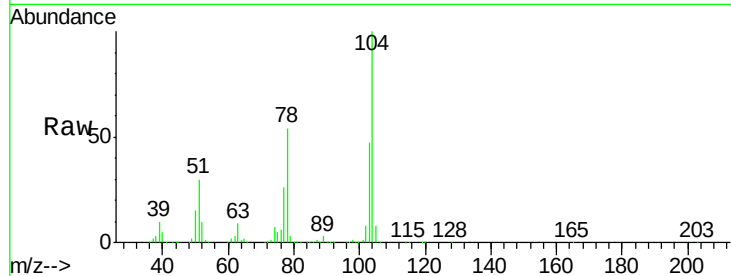
104 100

78 54.1 43.2 64.8

103 47.0 37.8 56.8

Manual Integrations
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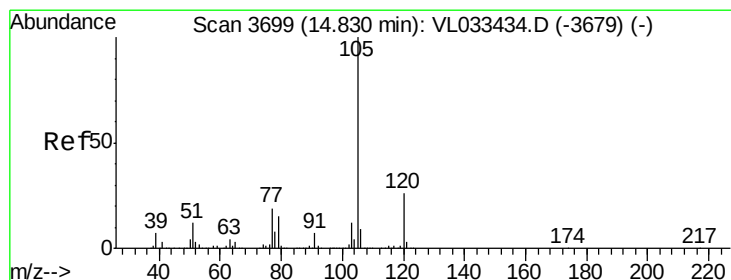
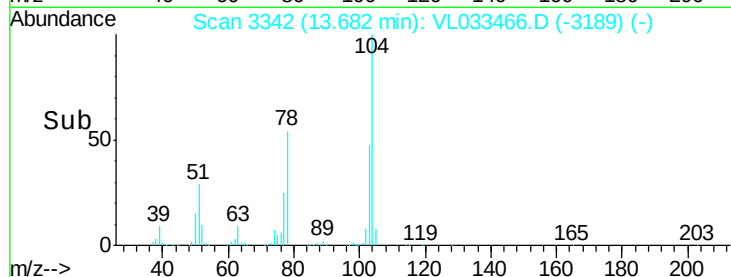
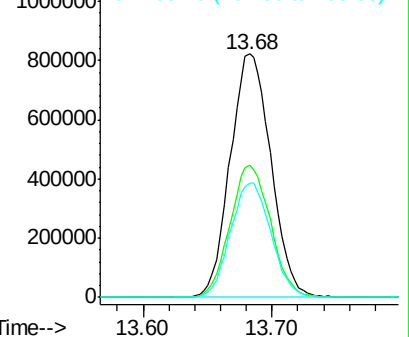
MMDadoda
4/1/2019 1:25:44 AM



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: 9.770 ppbv

RT: 14.82 min Scan# 3697

Delta R.T. -0.01 min

Lab File: VL033466.D

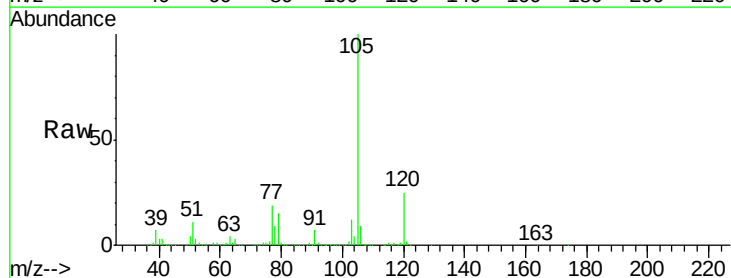
Acq: 27 Mar 2019 13:29

Tgt Ion:105 Resp: 3421775

Ion Ratio Lower Upper

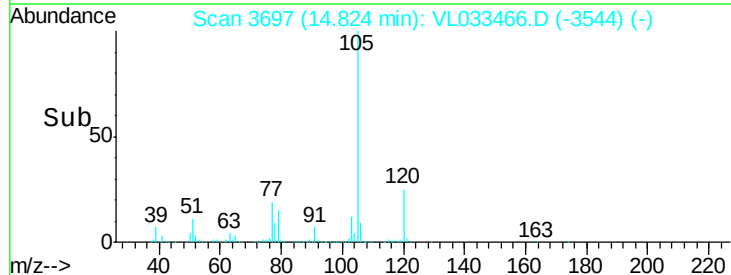
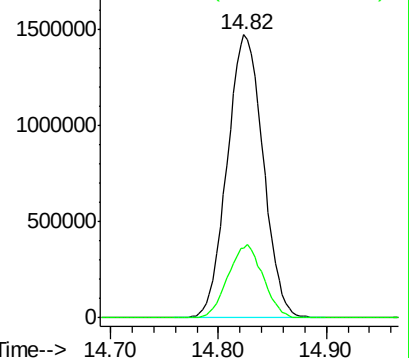
105 100

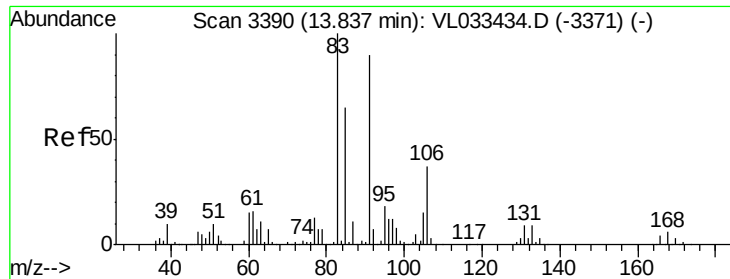
120 25.4 20.2 30.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





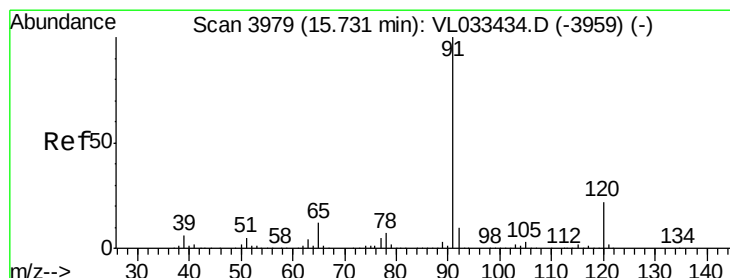
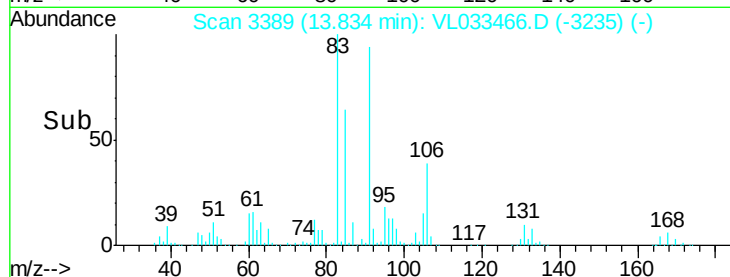
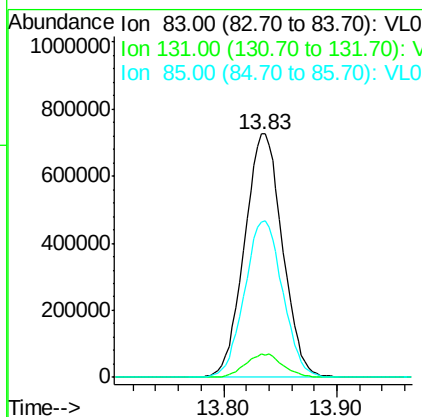
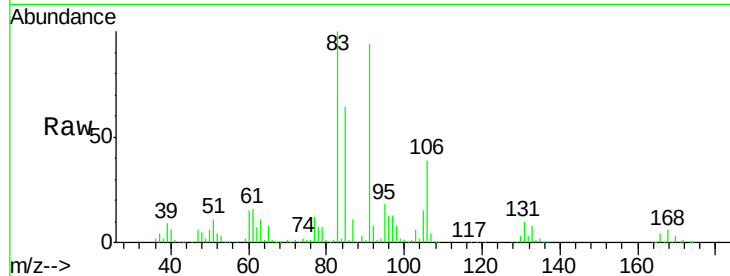
#63
 1,1,2,2-Tetrachloroethane
 Concen: 9.318 ppbv
 RT: 13.83 min Scan# 3389
 Delta R.T. -0.00 min
 Lab File: VL033466.D
 Acq: 27 Mar 2019 13:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0327ABS01

Tot Ion	83	Resp	1696854
Ion Ratio	100	Lower	Upper
83	100		
131	9.5	4.7	14.0
85	64.7	32.7	98.1

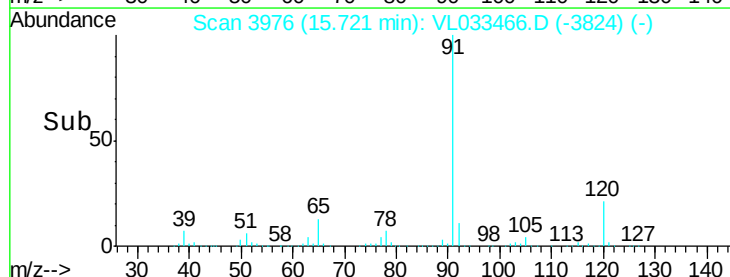
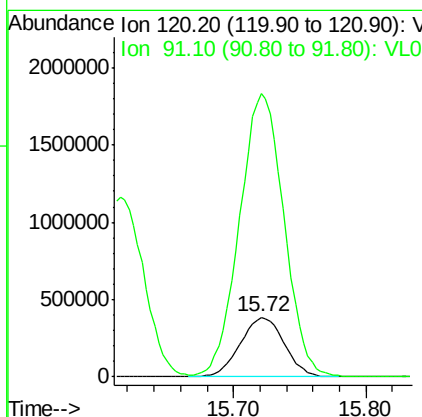
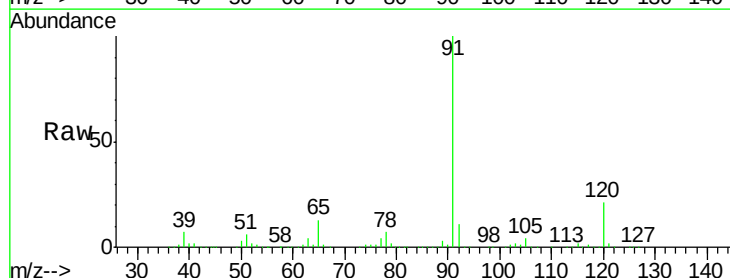
Manual Integrations
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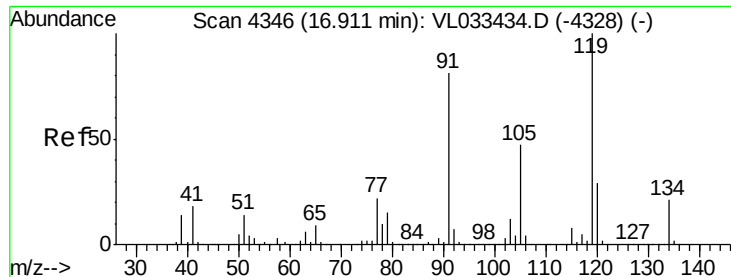
MMDadoda
 4/1/2019 1:25:44 AM



#64
 n-propylbenzene
 Concen: 10.041 ppbv
 RT: 15.72 min Scan# 3976
 Delta R.T. -0.01 min
 Lab File: VL033466.D
 Acq: 27 Mar 2019 13:29

Tgt Ion	120	Resp	892391
Ion Ratio	100	Lower	Upper
120	100		
91	479.0	387.4	581.2





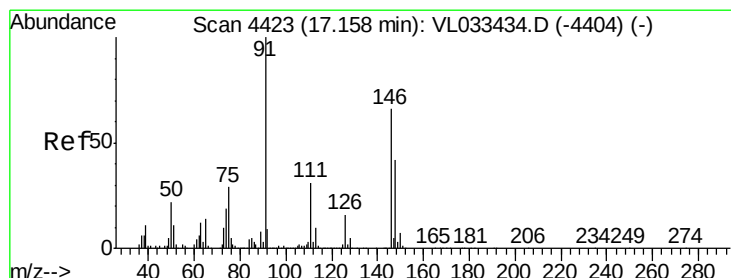
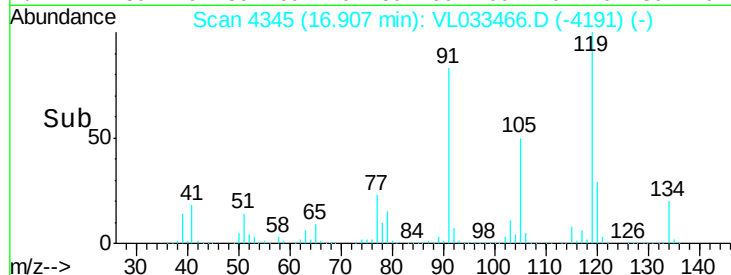
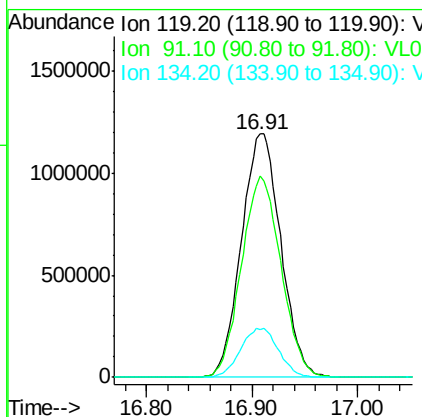
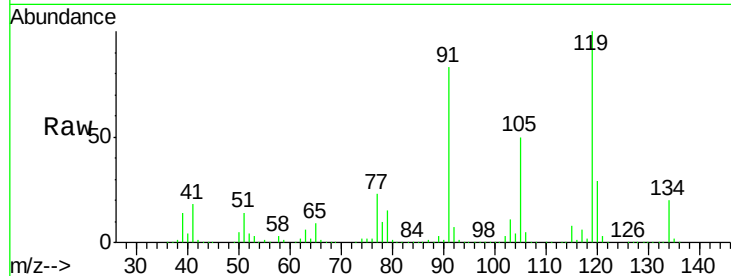
#65
tert-Butylbenzene
Concen: 10.046 ppbv
RT: 16.91 min Scan# 4345
Delta R.T. -0.00 min
Lab File: VL033466.D
Acq: 27 Mar 2019 13:29

Instrument :
MSVOA_L
ClientSampleId :
VL0327ABS01

Tot Ion:119 Resp: 3100456
Ion Ratio Lower Upper
119 100
91 83.0 66.4 99.6
134 19.4 15.5 23.3

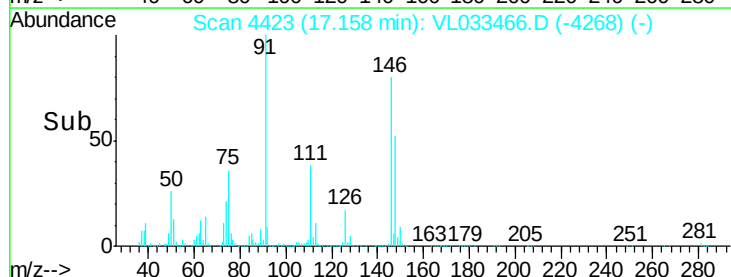
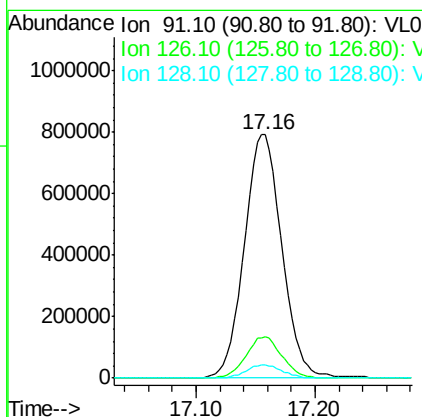
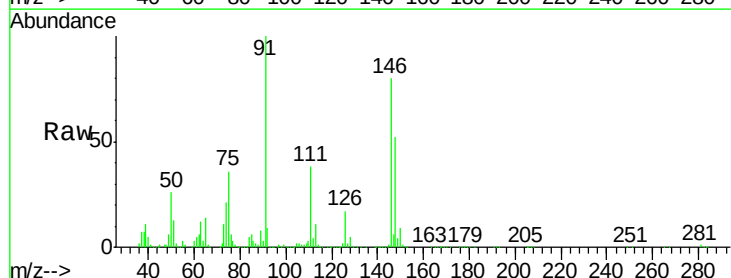
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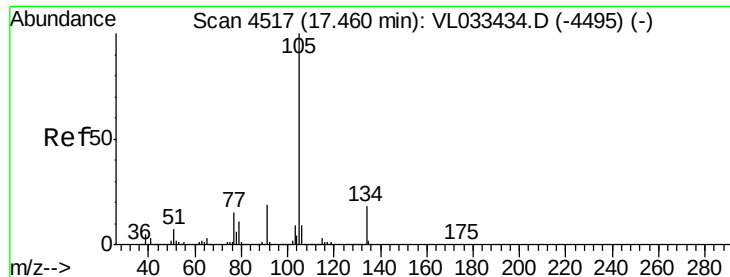
MMDadoda
4/1/2019 1:25:44 AM



#66
Benzyl Chloride
Concen: 12.030 ppbv
RT: 17.16 min Scan# 4423
Delta R.T. -0.00 min
Lab File: VL033466.D
Acq: 27 Mar 2019 13:29

Tgt Ion: 91 Resp: 1726541
Ion Ratio Lower Upper
91 100
126 16.4 13.0 19.6
128 5.3 4.2 6.2





#67

sec-Butylbenzene

Concen: 10.062 ppbv

RT: 17.46 min Scan# 4516

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

ClientSampleId :

VL0327ABS01

Tot Ion:105 Resp: 4416207

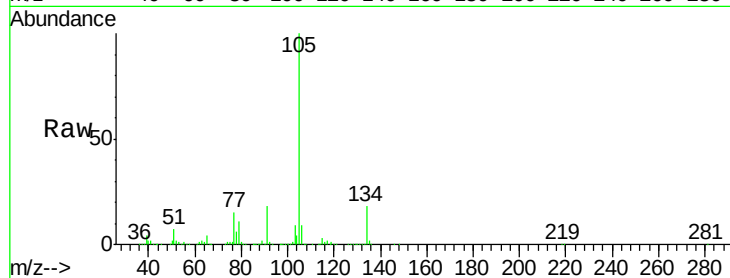
Ion Ratio Lower Upper

105 100

134 18.0 14.6 21.8

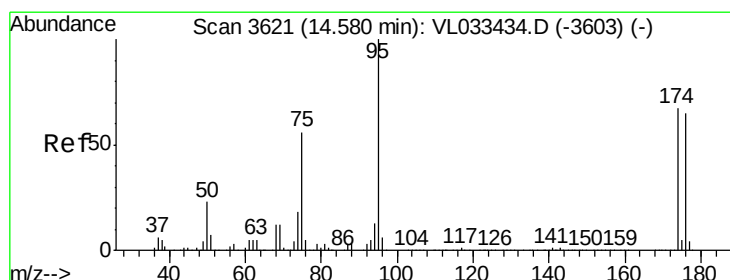
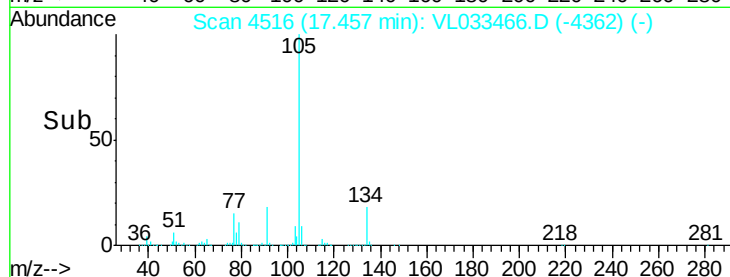
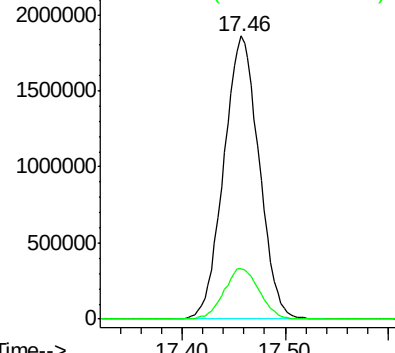
Manual Integrations
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MMDadoda
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.502 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

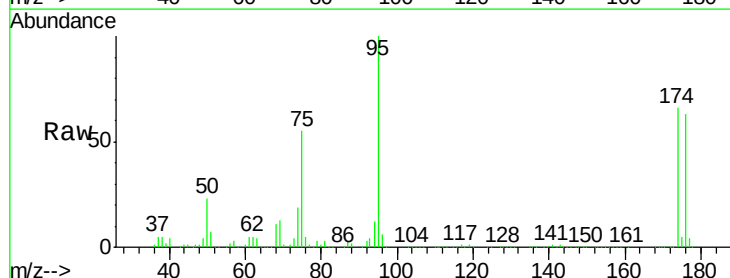
Tgt Ion: 95 Resp: 1597286

Ion Ratio Lower Upper

95 100

174 67.0 52.9 79.3

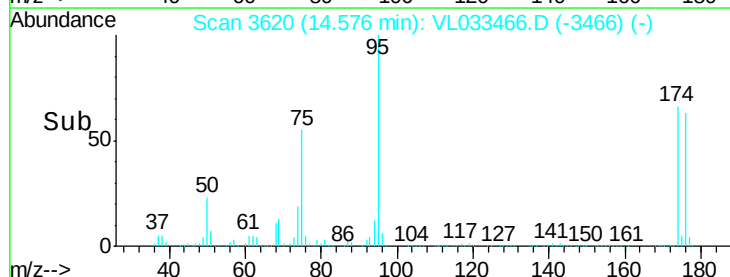
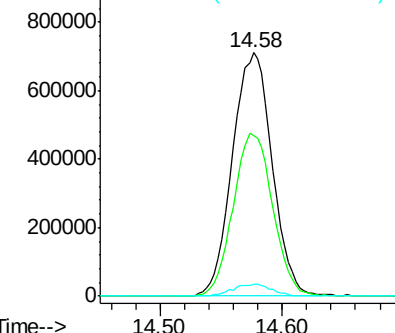
175 4.8 3.8 5.6

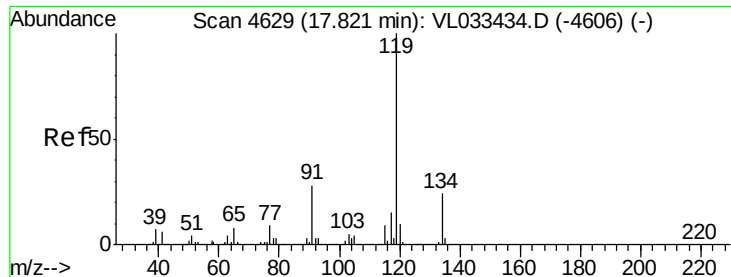


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





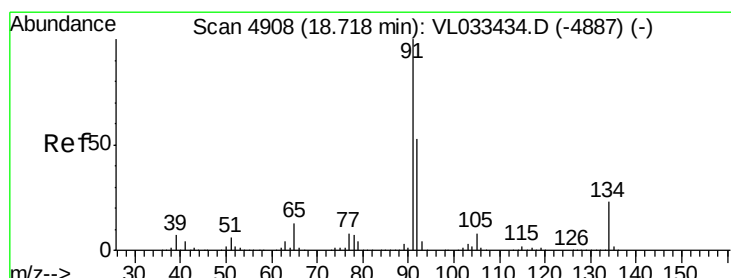
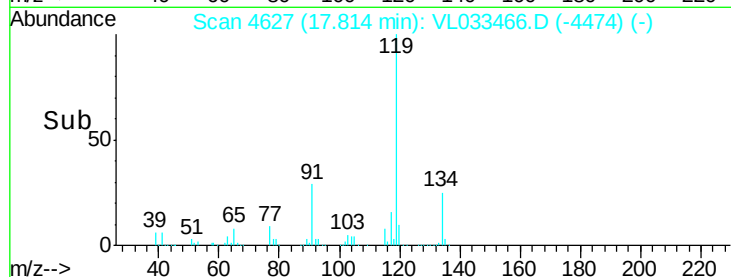
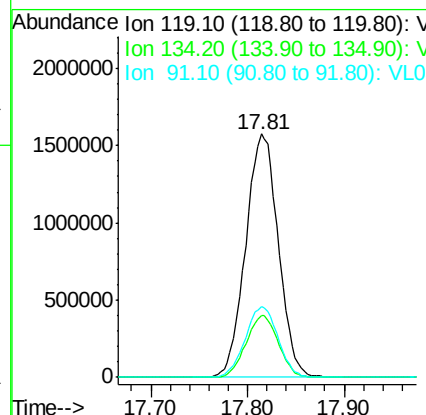
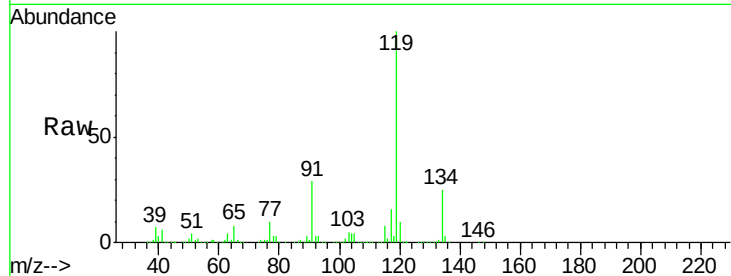
#69
 p-Isopropyltoluene
 Concen: 10.333 ppbv
 RT: 17.81 min Scan# 4627
 Delta R.T. -0.01 min
 Lab File: VL033466.D
 Acq: 27 Mar 2019 13:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0327ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.1	19.9	29.9
91	29.2	23.4	35.0

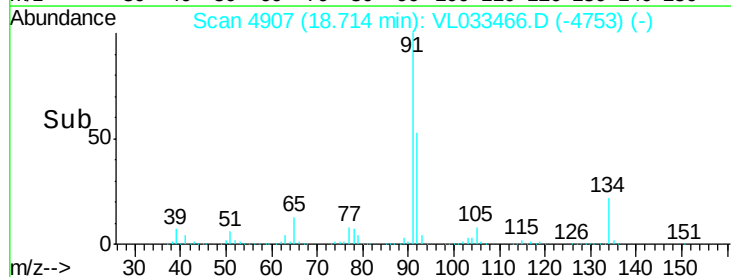
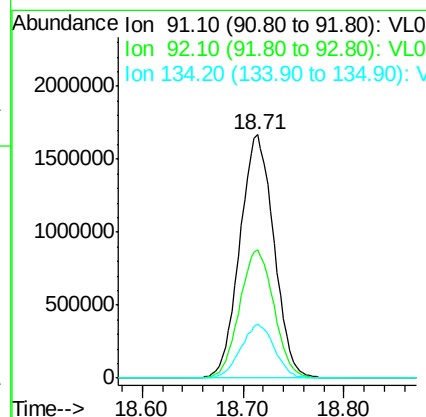
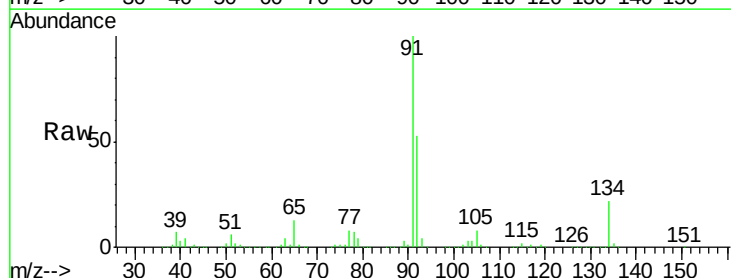
Manual Integrations
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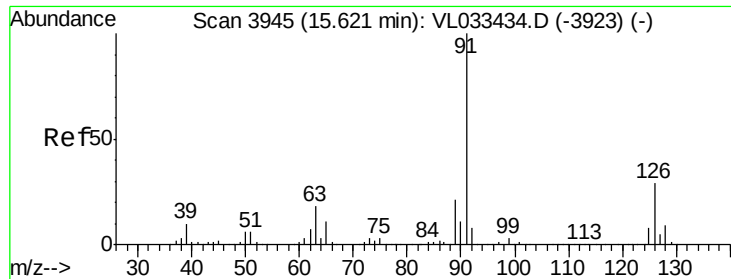
MMDadoda
 4/1/2019 1:25:44 AM



#70
 n-Butylbenzene
 Concen: 10.306 ppbv
 RT: 18.71 min Scan# 4907
 Delta R.T. -0.00 min
 Lab File: VL033466.D
 Acq: 27 Mar 2019 13:29

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.1	42.6	64.0
134	21.9	17.5	26.3





#71

2-Chlorotoluene

Concen: 10.102 ppbv

RT: 15.61 min Scan# 3943

Delta R.T. -0.01 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

ClientSampleId :

VL0327ABS01

Tot Ion: 91 Resp: 2690377

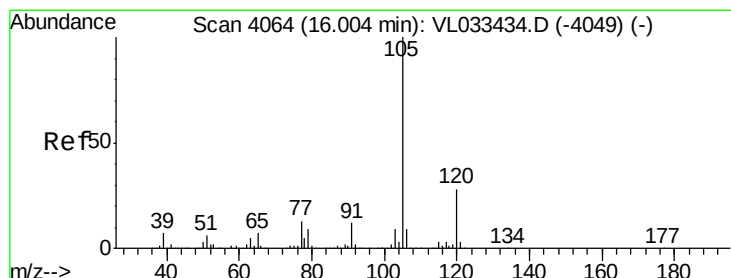
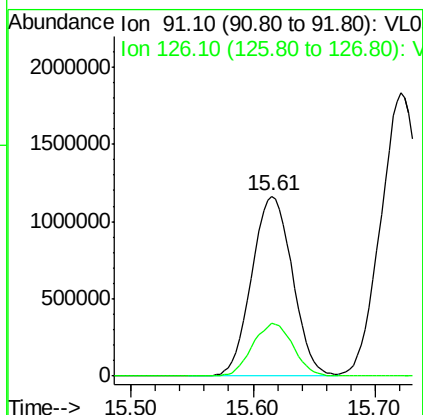
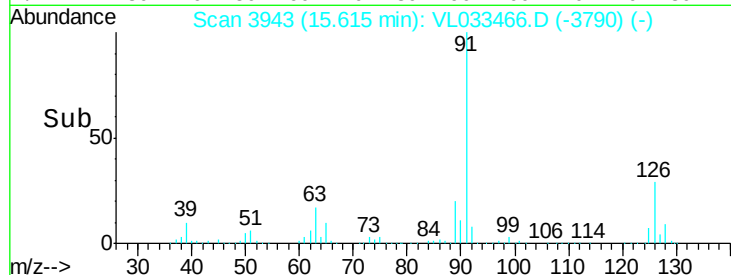
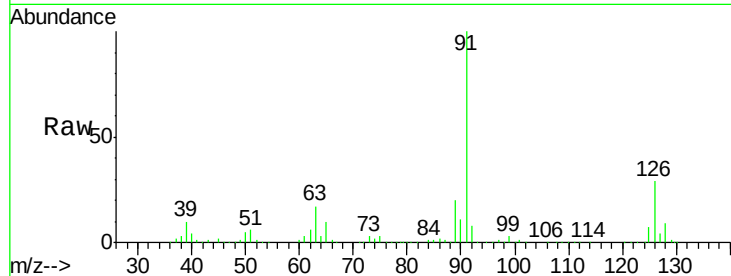
Ion Ratio Lower Upper

91 100

126 29.4 11.7 46.9

Manual Integrations
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#72

4-Ethyltoluene

Concen: 10.328 ppbv

RT: 16.00 min Scan# 4062

Delta R.T. -0.01 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Tgt Ion: 105 Resp: 2871209

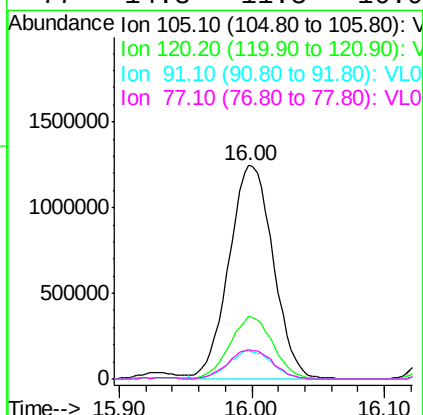
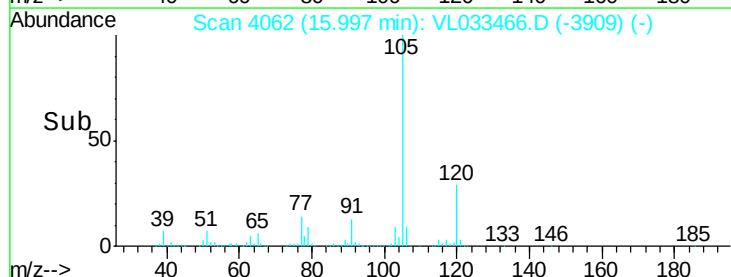
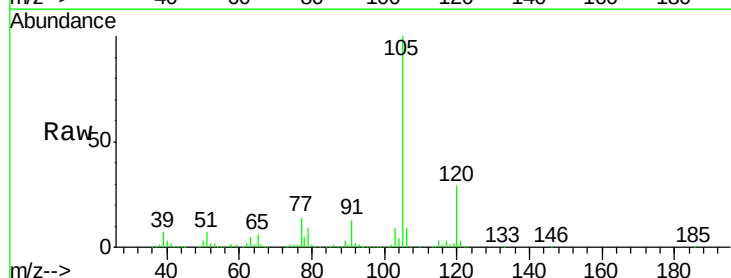
Ion Ratio Lower Upper

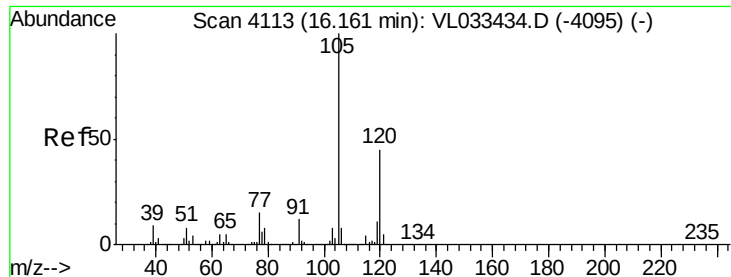
105 100

120 28.7 23.2 34.8

91 13.0 10.4 15.6

77 14.3 11.3 16.9





#73

1,3,5-Trimethylbenzene

Concen: 10.405 ppbv

RT: 16.16 min Scan# 4112

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

ClientSampled :

VL0327ABS01

Tot Ion:105 Resp: 2768274

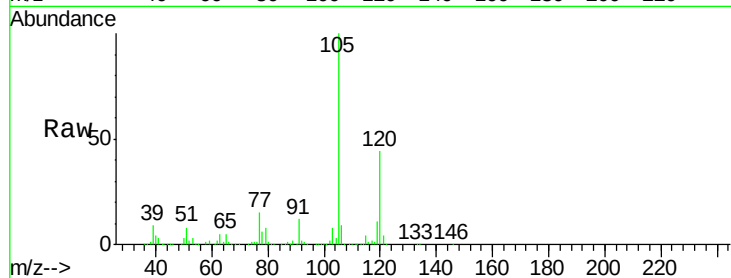
Ion Ratio Lower Upper

105 100

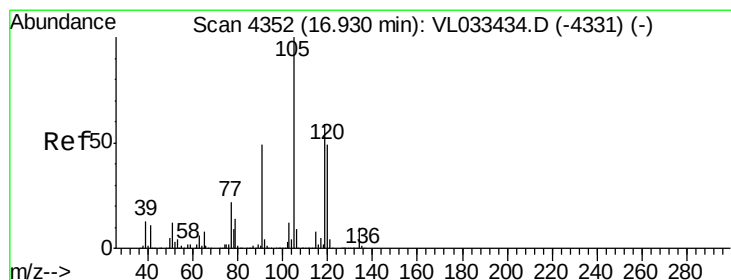
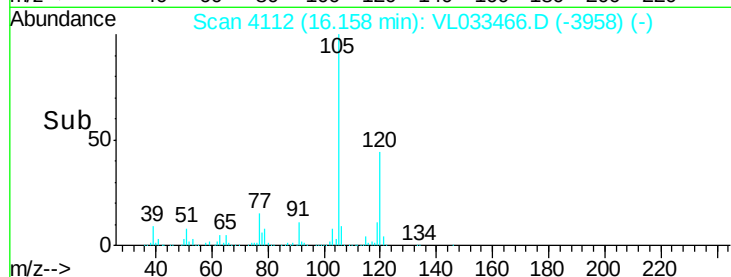
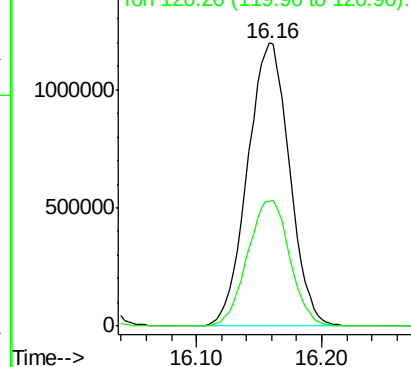
120 44.2 35.7 53.5

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Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 10.064 ppbv

RT: 16.93 min Scan# 4351

Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Tgt Ion:105 Resp: 2869772

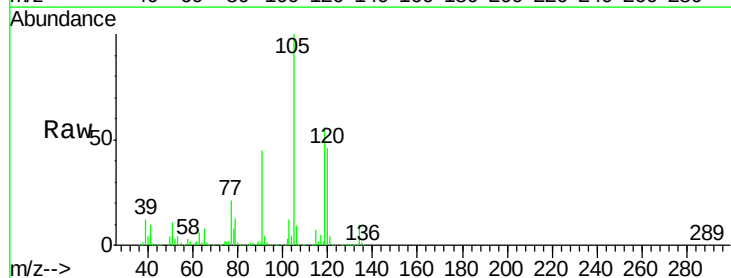
Ion Ratio Lower Upper

105 100

120 46.2 39.0 58.6

91 45.4 40.0 60.0

77 20.8 17.5 26.3

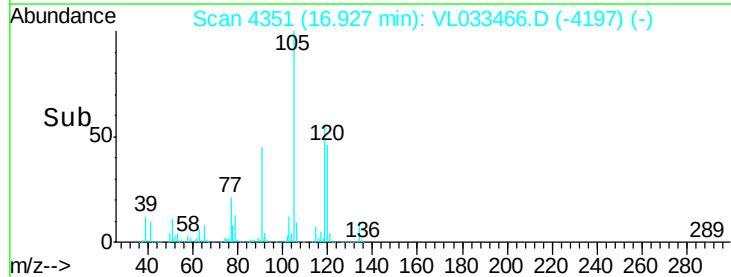
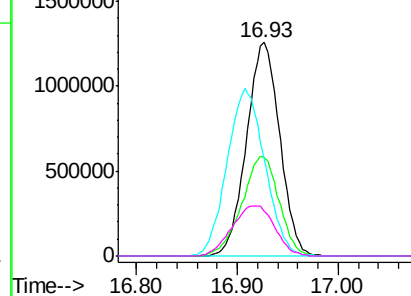


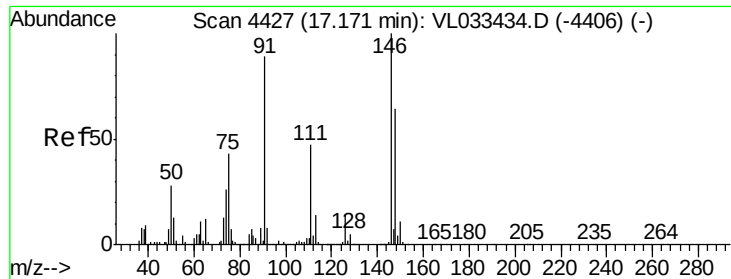
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





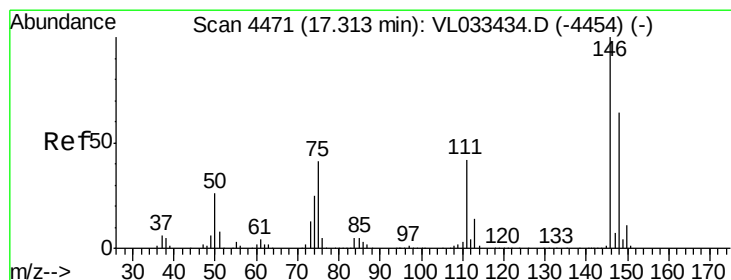
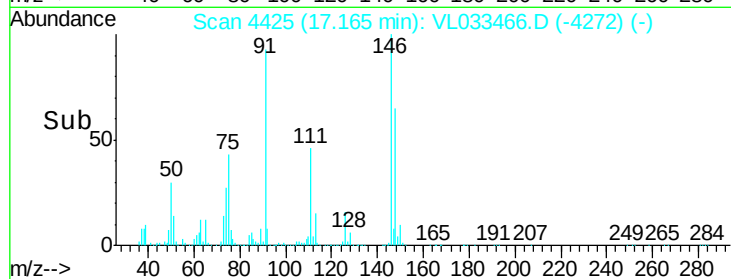
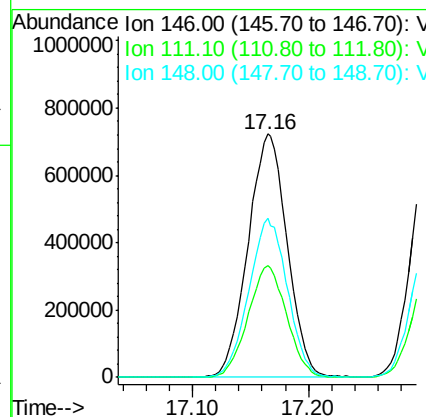
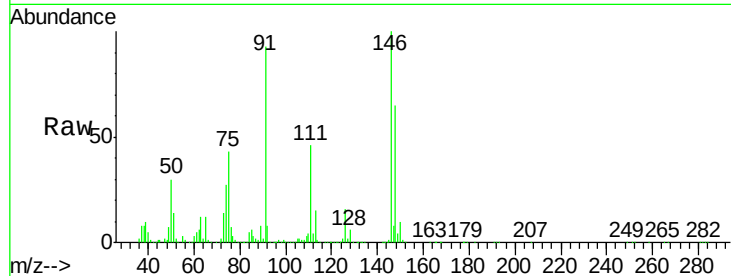
#75
 1,3-Dichlorobenzene
 Concen: 9.608 ppbv
 RT: 17.16 min Scan# 4425
 Delta R.T. -0.01 min
 Lab File: VL033466.D
 Acq: 27 Mar 2019 13:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0327ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.4	22.9	68.8
148	64.6	32.0	96.2

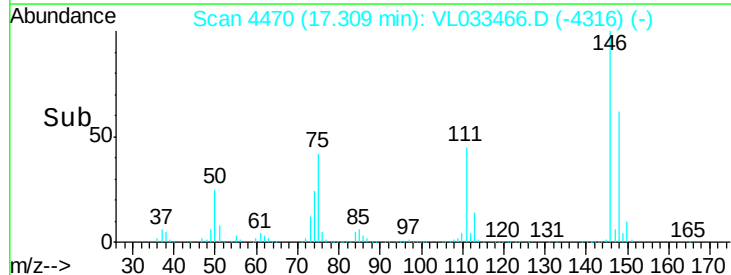
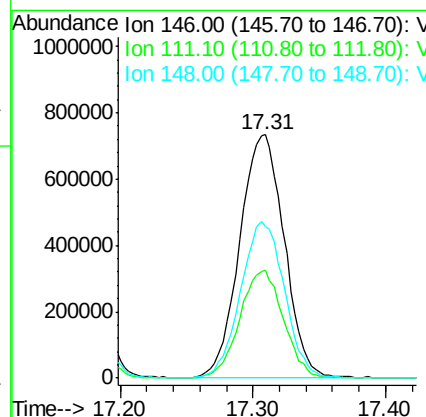
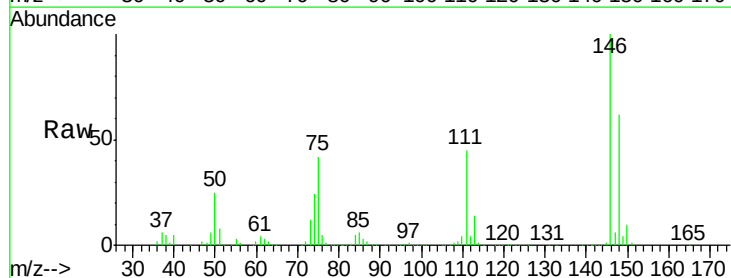
Manual Integrations
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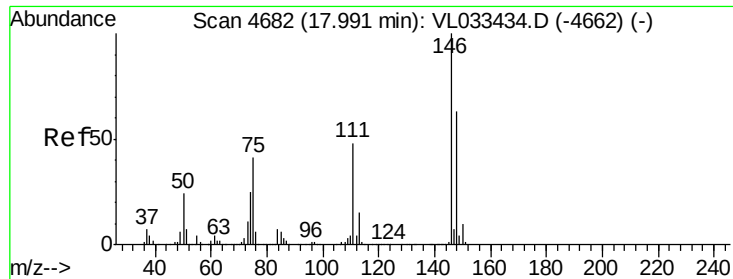
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 4/1/2019 1:25:44 AM



#76
 1,4-Dichlorobenzene
 Concen: 9.913 ppbv
 RT: 17.31 min Scan# 4470
 Delta R.T. -0.00 min
 Lab File: VL033466.D
 Acq: 27 Mar 2019 13:29

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.0	21.7	65.1
148	64.2	32.0	96.2





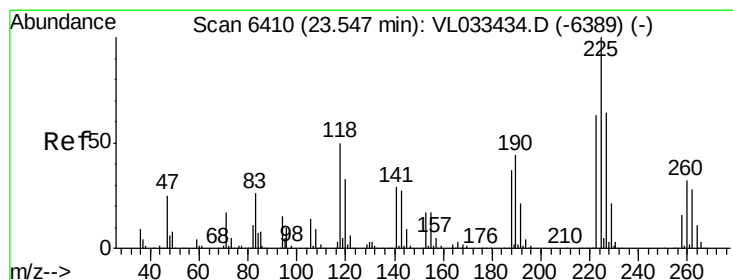
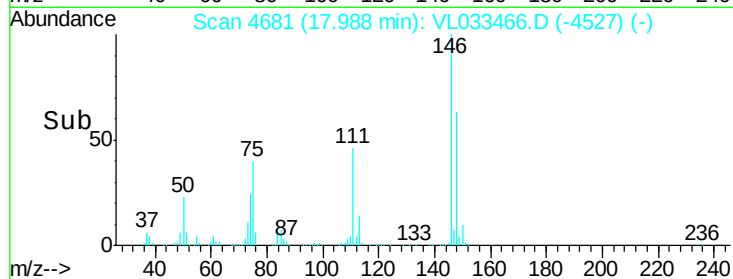
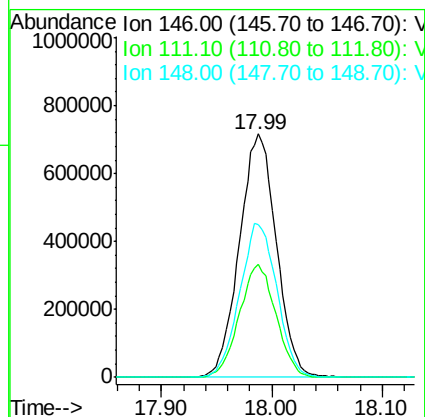
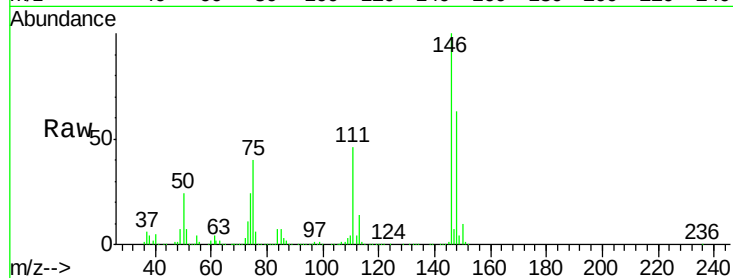
#77
 1,2-Dichlorobenzene
 Concen: 9.918 ppbv
 RT: 17.99 min Scan# 4681
 Delta R.T. -0.00 min
 Lab File: VL033466.D
 Acq: 27 Mar 2019 13:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0327ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.1	23.5	70.5
148	63.9	32.0	96.0

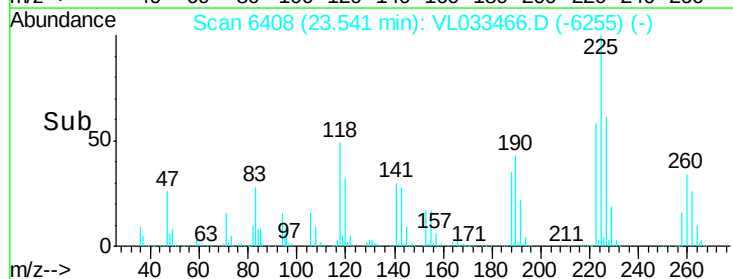
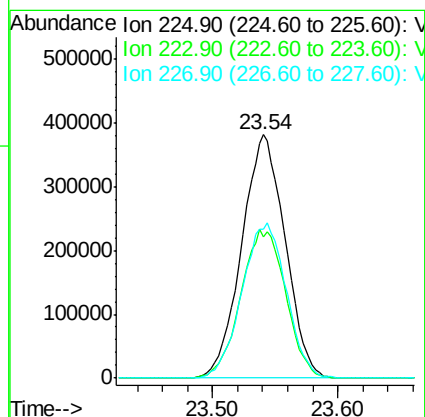
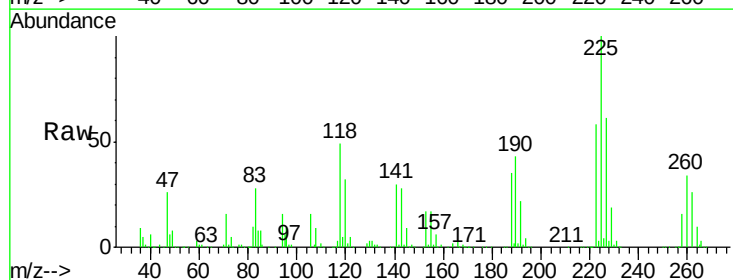
Manual Integrations
 APPROVED

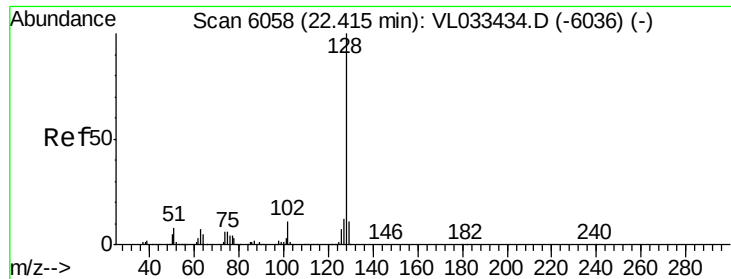
MMDadoda
 4/1/2019 1:25:44 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.301 ppbv
 RT: 23.54 min Scan# 6408
 Delta R.T. -0.01 min
 Lab File: VL033466.D
 Acq: 27 Mar 2019 13:29

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.9	50.0	75.0
227	64.9	51.1	76.7





#79

Naphthalene

Concen: 11.603 ppbv

RT: 22.41 min Scan# 6056

Delta R.T. -0.01 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Instrument :

MSVOA_L

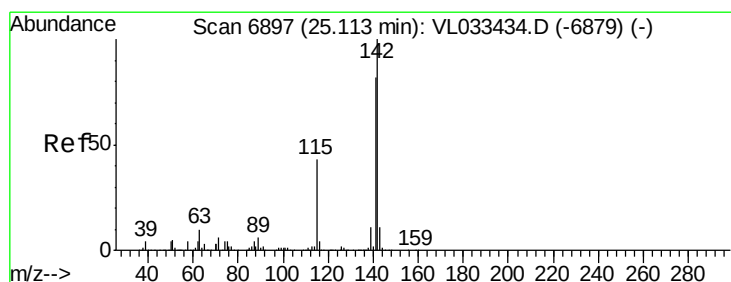
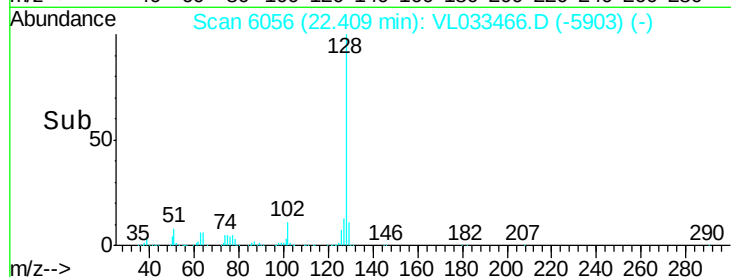
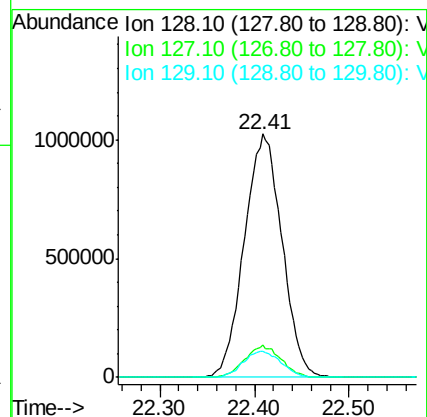
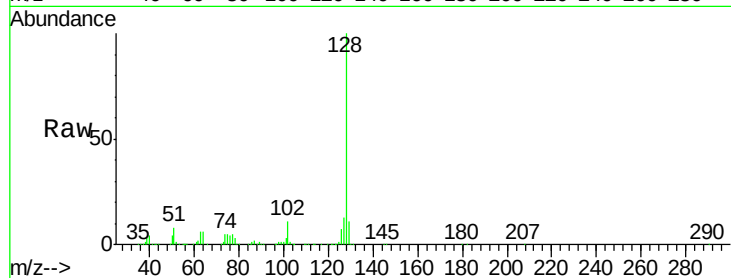
ClientSampleId :

VL0327ABS01

Tot Ion:	128	Resp:	2832391
Ion	Ratio	Lower	Upper
128	100		
127	13.0	9.8	14.8
129	10.8	8.6	12.8

Manual Integrations
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4/1/2019 1:25:44 AM



#80

Naphthalene, 2-methyl-

Concen: 9.640 ppbv

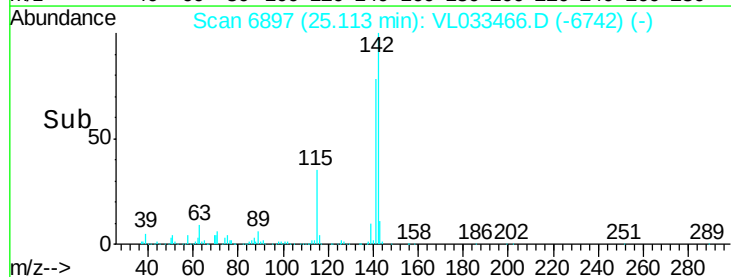
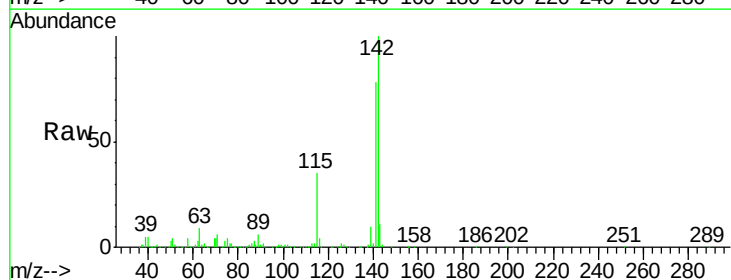
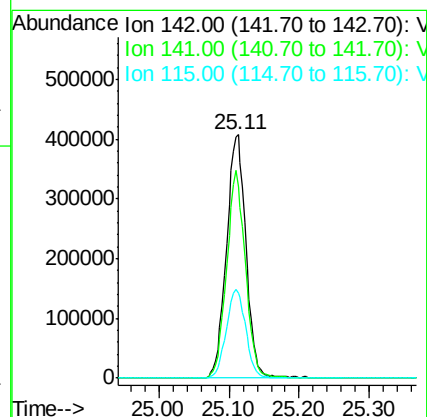
RT: 25.11 min Scan# 6897

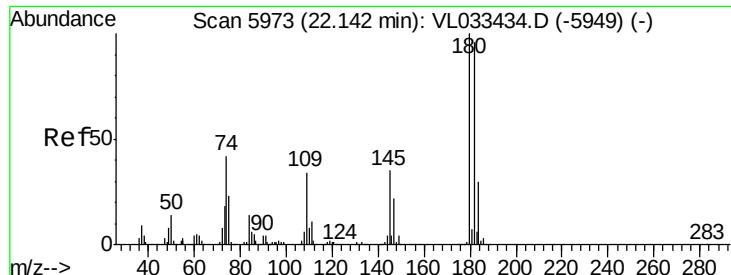
Delta R.T. -0.00 min

Lab File: VL033466.D

Acq: 27 Mar 2019 13:29

Tgt Ion:	142	Resp:	789720
Ion	Ratio	Lower	Upper
142	100		
141	82.2	66.6	99.8
115	36.4	34.4	51.6





#81
 1,2,4-Trichlorobenzene
 Concen: 10.760 ppbv
 RT: 22.13 min Scan# 5970
 Delta R.T. -0.01 min
 Lab File: VL033466.D
 Acq: 27 Mar 2019 13:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0327ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	77.0	115.4
184	30.4	24.6	36.8

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:25:44 AM

