

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL010816\
 Data File : VL026666.D
 Acq On : 9 Jan 2016 8:19
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMdadoda
 1/14/2016 10:51:24 AM

Quant Time: Jan 12 05:10:23 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 18
 QLast Update : Mon Jan 11 17:14:02 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.64	49	677589	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.31	114	2138247	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.73	117	2681599m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	16.27	95	2369185	11.08	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.80%

Target Compounds						Ovalue
2) Dichlorodifluoromethane	3.63	85	2094278	11.63	ppbv	100
3) Chlorodifluoromethane	3.56	51	902087	10.00	ppbv	94
4) Chloromethane	3.74	50	401651	9.10	ppbv	99
5) Vinyl Chloride	3.87	62	488613	9.14	ppbv	98
6) Bromomethane	4.13	94	390523	10.26	ppbv	92
7) Chloroethane	4.23	64	216449	10.02	ppbv	99
8) Dichlorotetrafluoroethane	3.79	85	1510881	10.67	ppbv	99
9) Propene	3.58	41	278660	8.59	ppbv	99
10) Heptane	9.34	43	1149815	9.51	ppbv	96
11) Trichlorofluoromethane	4.68	101	2205215	11.81	ppbv	100
12) 1,1,2-Trichlorotrifluoroet	5.29	101	1273375	11.10	ppbv	99
13) Ethanol	4.31	45	53323	8.65	ppbv	98
14) Bromoethene	4.44	108	442325	10.70	ppbv	98
15) Acetone	4.59	43	1049486	9.42	ppbv	97
16) 1,3-Butadiene	3.96	39	429973	9.66	ppbv	97
17) tert-Butyl alcohol	5.11	59	908332	10.81	ppbv	100
18) 1,1-Dichloroethene	5.07	96	518543	10.84	ppbv	100
19) Isopropyl Alcohol	4.73	45	456806	9.94	ppbv	100
20) Methylene Chloride	5.14	84	466934	10.21	ppbv	98
21) Allyl Chloride	5.21	41	678919	9.93	ppbv	86
22) trans-1,2-Dichloroethene	5.75	96	573081	10.49	ppbv	98
23) Vinyl Acetate	5.97	43	1754317	10.25	ppbv	100
24) 1,1-Dichloroethane	5.90	63	1242373	10.07	ppbv	99
25) Ethyl Acetate	6.65	43	1696015	9.86	ppbv	99
26) Hexane	6.64	57	856499	9.63	ppbv	97
27) Carbon Disulfide	5.37	76	1468871	11.11	ppbv	96
28) Methyl tert-Butyl Ether	5.94	73	1894720	10.71	ppbv	97
29) Chloroform	6.73	83	1773296	10.98	ppbv	99
30) Cyclohexane	8.26	84	924450	10.53	ppbv	94
31) cis-1,2-Dichloroethene	6.50	61	947080	10.56	ppbv	98
32) 1,1,1-Trichloroethane	7.58	97	1975827	10.84	ppbv	99
34) 2-Butanone	6.18	43	991817	8.70	ppbv	97
35) Carbon Tetrachloride	8.15	117	2018378	10.73	ppbv	98
36) Benzene	8.01	78	2055355	9.34	ppbv	97
37) 1,2-Dichloroethane	7.36	62	1618256	10.75	ppbv	98
38) Trichloroethene	9.05	130	858438	8.74	ppbv	98
39) 1,2-Dichloropropane	8.81	63	694638	9.13	ppbv	92
40) 1,4-Dioxane	9.09	88	187608	10.73	ppbv	61
41) Tetrahydrofuran	7.10	42	518699	9.19	ppbv	95
42) Bromodichloromethane	9.01	83	2088557	10.75	ppbv	99
43) Methyl Methacrylate	9.24	69	831595	10.35	ppbv	96

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Manual Integrations
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MMdadoda
 1/14/2016 10:51:24 AM

Quant Time: Jan 12 05:10:23 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL010816AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 11 17:14:02 2016
 QLast Update : Mon Jan 11 17:14:02 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.07	57	3175566	8.94	ppbv	97
45) t-1,3-Dichloropropene	10.63	75	1518808	11.67	ppbv	97
46) cis-1,3-Dichloropropene	10.00	75	1607290	10.86	ppbv	99
47) 1,1,2-Trichloroethane	10.86	97	1078069	9.94	ppbv	97
48) Dibromochloromethane	11.78	129	1844528	11.34	ppbv	100
49) Bromoform	14.79	173	1557010	11.73	ppbv	100
50) 4-Methyl-2-Pentanone	10.07	43	1536686	9.59	ppbv	99
51) 2-Hexanone	11.60	43	1550636	10.50	ppbv #	100
52) Tetrachloroethene	12.77	164	1020357	9.28	ppbv	98
53) Toluene	11.22	91	3195219	10.30	ppbv	99
54) 1,2-Dibromoethane	12.12	107	1777580	10.36	ppbv	99
56) 1,1,1,2-Tetrachloroethane	13.77	131	1361990	11.03	ppbv	96
57) Chlorobenzene	13.79	112	2767381	10.02	ppbv	98
58) Ethyl Benzene	14.39	91	5248709	10.96	ppbv	99
59) m/p-Xylene	14.69	91	8277355	20.97	ppbv	99
60) o-Xylene	15.47	91	4314419	10.11	ppbv	100
61) Styrene	15.29	104	2020404	12.12	ppbv	100
62) Isopropylbenzene	16.52	105	6025714	10.67	ppbv	100
63) 1,1,2,2-Tetrachloroethane	15.46	83	2700935	8.49	ppbv	100
64) n-propylbenzene	17.50	120	1616794	10.67	ppbv	100
65) tert-Butylbenzene	18.78	119	5130890	9.91	ppbv	100
66) Benzyl Chloride	19.08	91	2327903	12.59	ppbv	100
67) sec-Butylbenzene	19.39	105	8107201	10.56	ppbv	100
69) p-Isopropyltoluene	19.77	119	6360868	10.83	ppbv	99
70) n-Butylbenzene	20.74	91	6739964	11.03	ppbv	99
71) 2-Chlorotoluene	17.41	91	4896635	11.13	ppbv	99
72) 4-Ethyltoluene	17.80	105	5351282	11.22	ppbv	99
73) 1,3,5-Trimethylbenzene	17.97	105	4948078	10.94	ppbv	99
74) 1,2,4-Trimethylbenzene	18.82	105	4791857	9.98	ppbv	99
75) 1,3-Dichlorobenzene	19.10	146	3074076	10.37	ppbv	100
76) 1,4-Dichlorobenzene	19.25	146	3189357	10.48	ppbv	100
77) 1,2-Dichlorobenzene	20.00	146	3214836	10.68	ppbv	99
78) Hexachloro-1,3-Butadiene	24.65	225	1159479	9.44	ppbv	99
79) Naphthalene	23.91	128	3618818	11.17	ppbv	99
80) Naphthalene, 2-methyl-	26.02	142	816268	16.23	ppbv	99
81) 1,2,4-Trichlorobenzene	23.71	180	1583328	10.74	ppbv	99

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

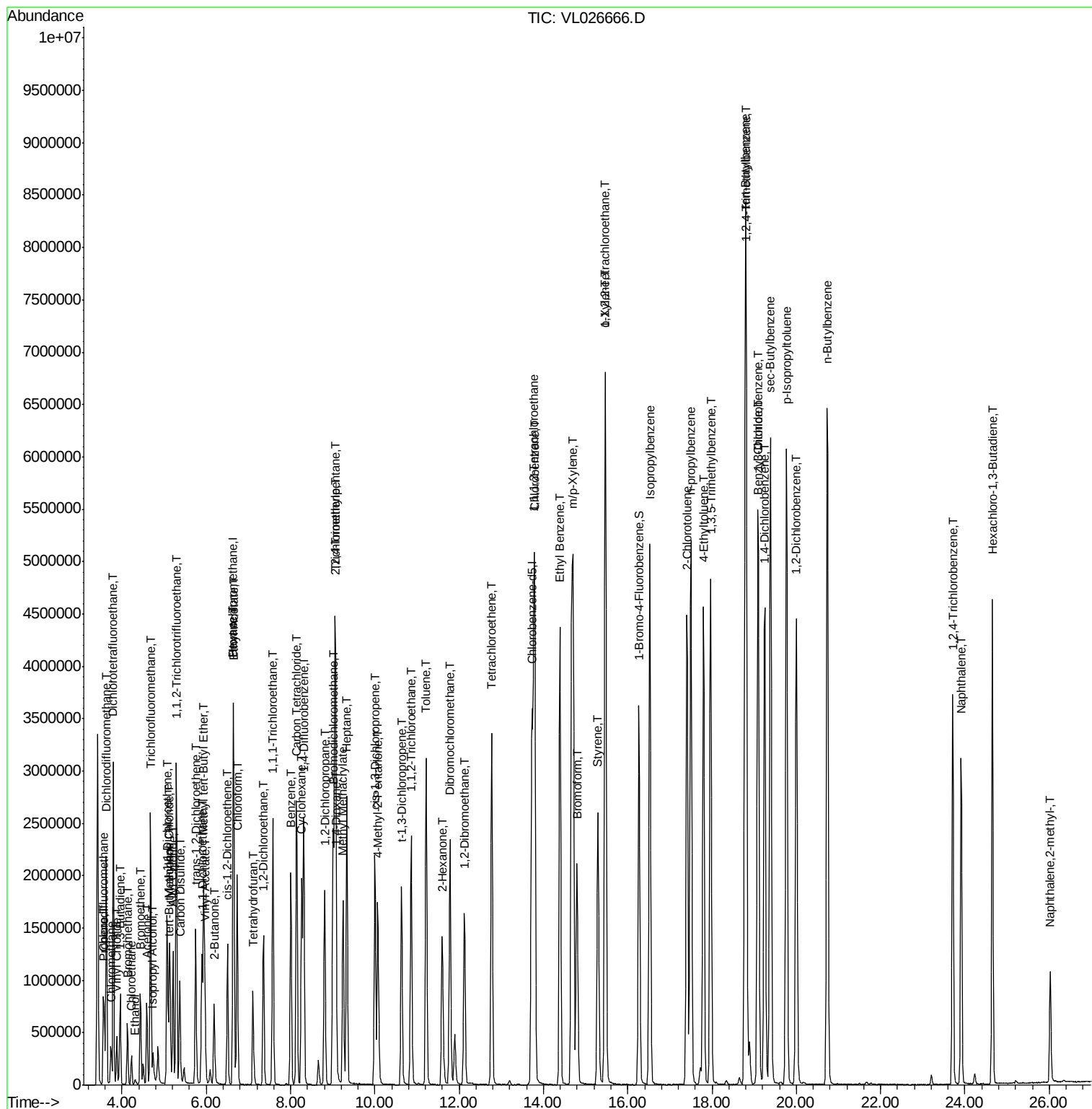
Data Path : W:\HPCHEM1\MSVOA L\DATA\VL010816\
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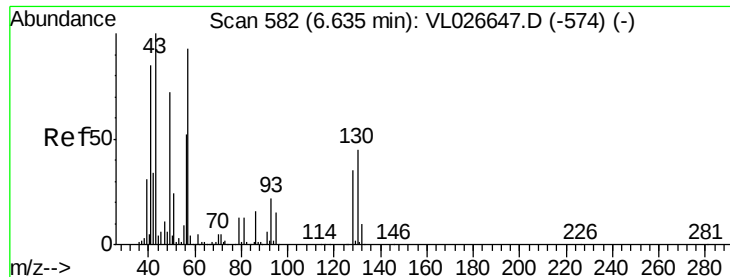
Instrument :
 MSVOA_L
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Quant Time: Jan 12 05:10:23 2016
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan
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 Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 6.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VL026666.D

Acq: 9 Jan 2016 8:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 677589

Ion Ratio Lower Upper

49 100

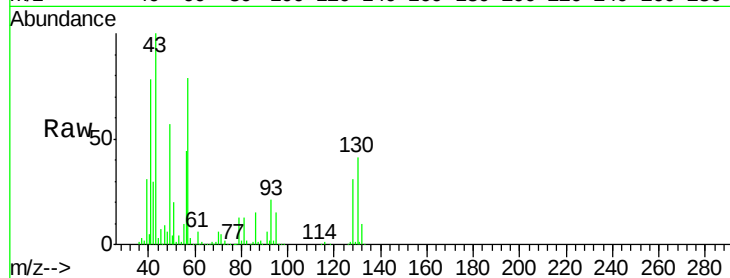
128 55.6 25.9 77.7

130 71.1 33.6 100.8

Manual Integrations
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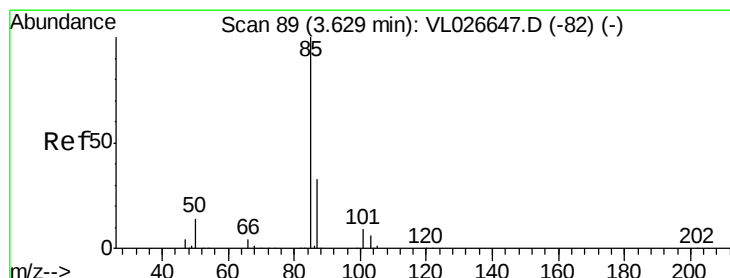
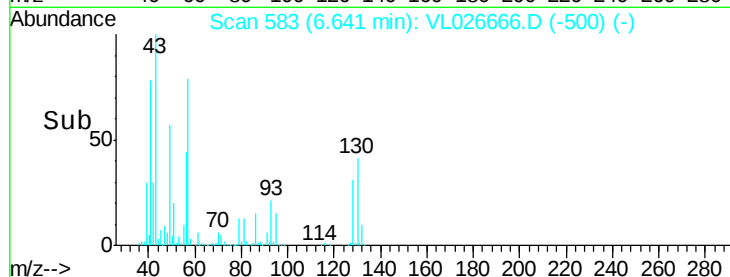
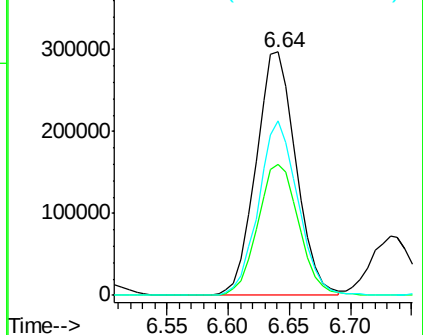
1/14/2016 10:51:24 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 11.63 ppbv

RT: 3.63 min Scan# 89

Delta R.T. 0.00 min

Lab File: VL026666.D

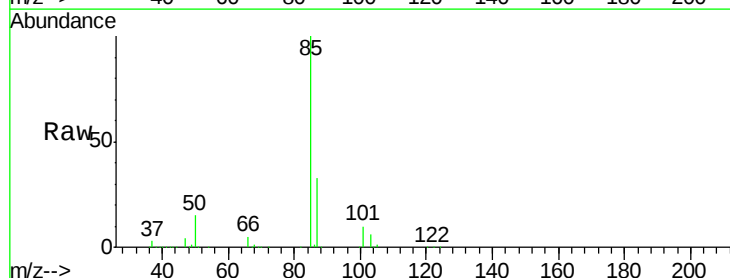
Acq: 9 Jan 2016 8:19

Tgt Ion: 85 Resp: 2094278

Ion Ratio Lower Upper

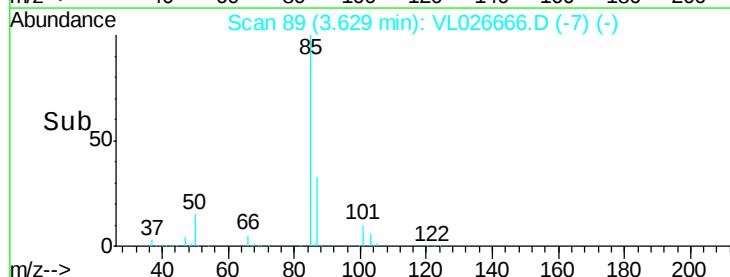
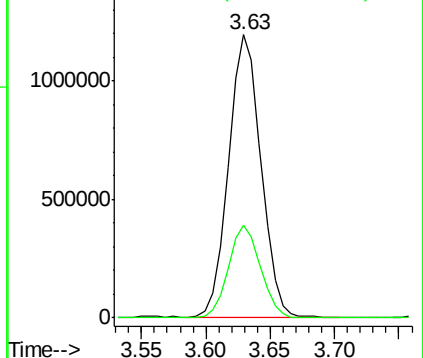
85 100

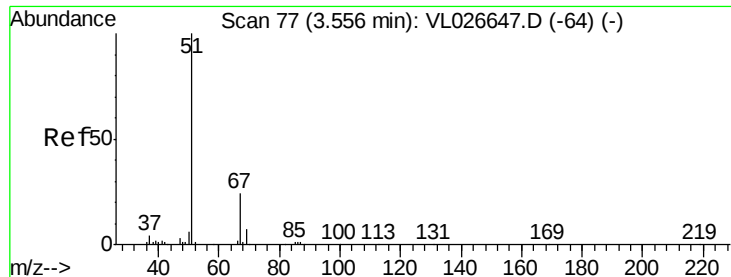
87 32.9 26.4 39.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 10.00 ppbv

RT: 3.56 min Scan# 77

Delta R.T. 0.00 min

Lab File: VL026666.D

Acq: 9 Jan 2016 8:19

Tot Ion: 51 Resp: 902087

Ion Ratio Lower Upper

51 100

67 26.1 18.6 28.0

Instrument :

MSVOA_L

ClientSampleId :

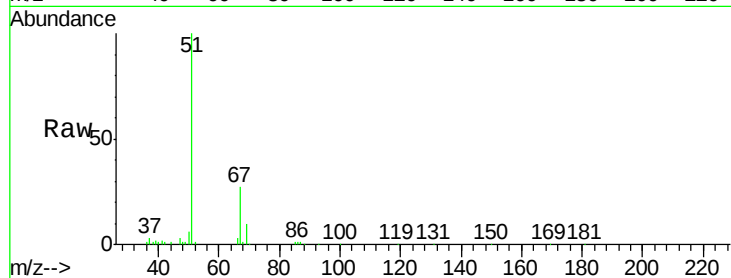
VSTDCCC010EC

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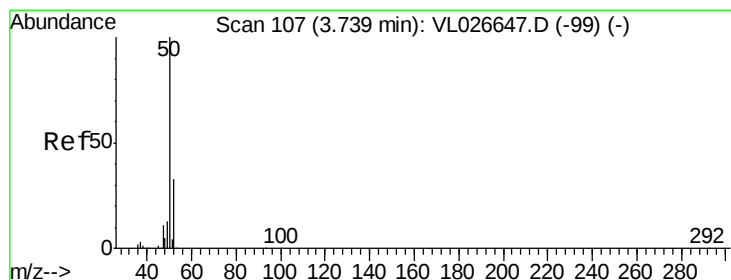
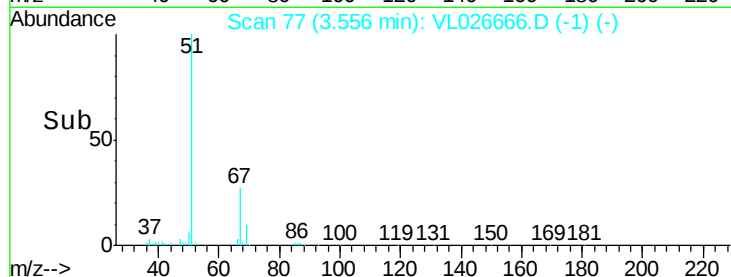
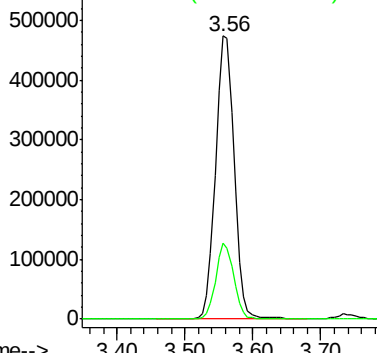
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 9.10 ppbv

RT: 3.74 min Scan# 107

Delta R.T. 0.00 min

Lab File: VL026666.D

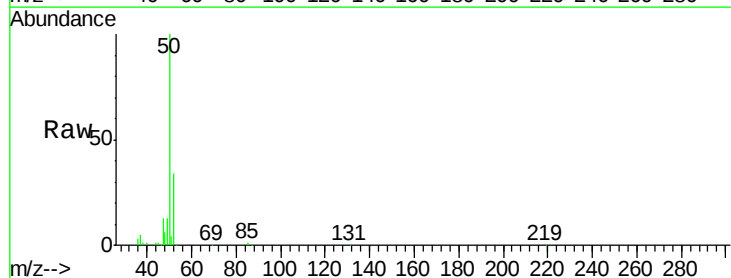
Acq: 9 Jan 2016 8:19

Tgt Ion: 50 Resp: 401651

Ion Ratio Lower Upper

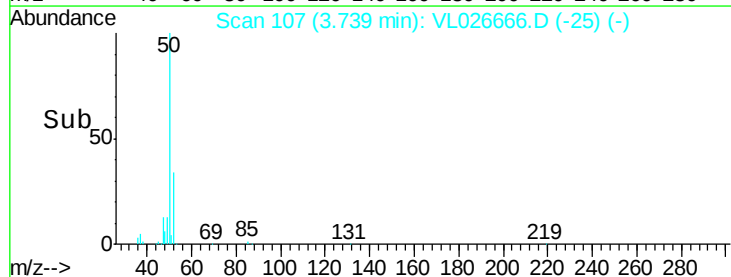
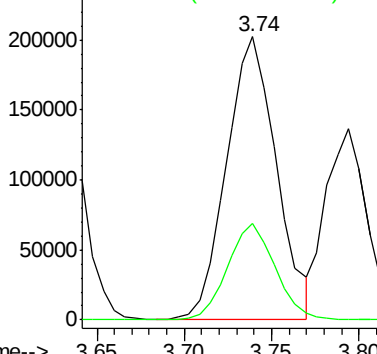
50 100

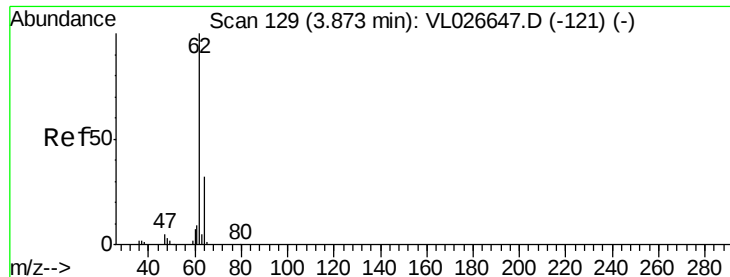
52 34.1 26.7 40.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 9.14 ppbv

RT: 3.87 min Scan# 129

Delta R.T. 0.00 min

Lab File: VL026666.D

Acq: 9 Jan 2016 8:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 488613

Ion Ratio Lower Upper

62 100

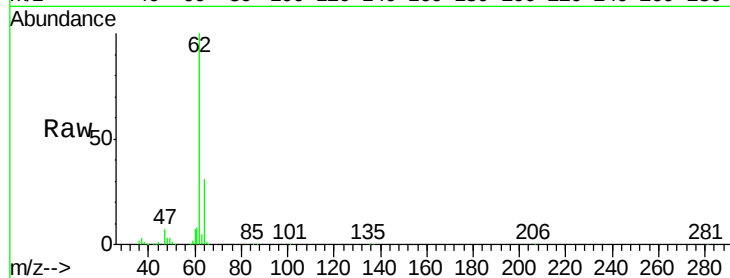
64 31.0 25.6 38.4

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.87

250000

200000

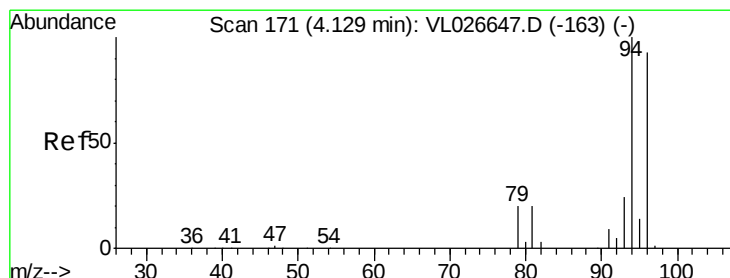
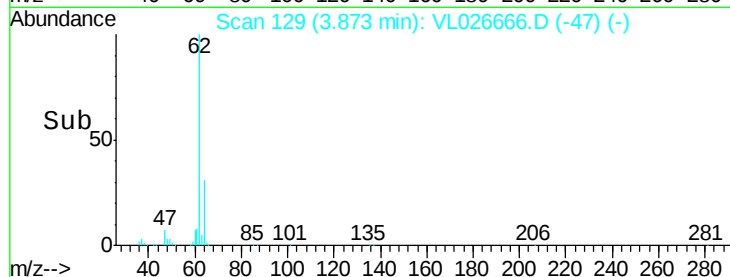
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 10.26 ppbv

RT: 4.13 min Scan# 171

Delta R.T. 0.00 min

Lab File: VL026666.D

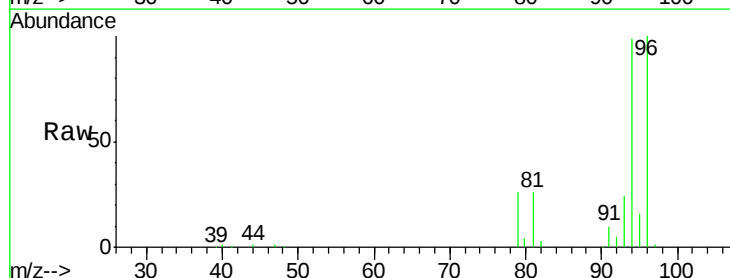
Acq: 9 Jan 2016 8:19

Tgt Ion: 94 Resp: 390523

Ion Ratio Lower Upper

94 100

96 100.7 74.6 112.0



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

4.13

200000

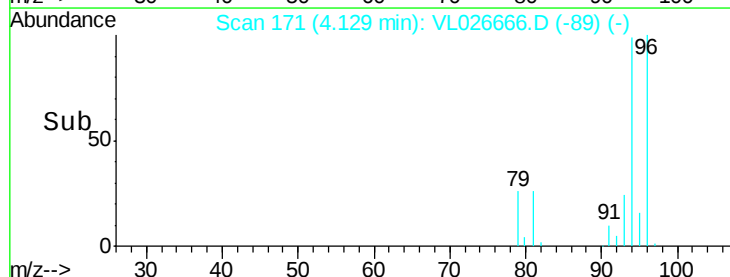
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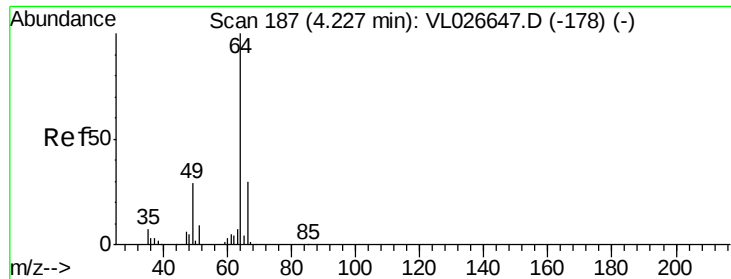
100000

50000

0

Time-->





#7

Chloroethane

Concen: 10.02 ppbv

RT: 4.23 min Scan# 187

Delta R.T. 0.00 min

Lab File: VL026666.D

Acq: 9 Jan 2016 8:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 216449

Ion Ratio Lower Upper

64 100

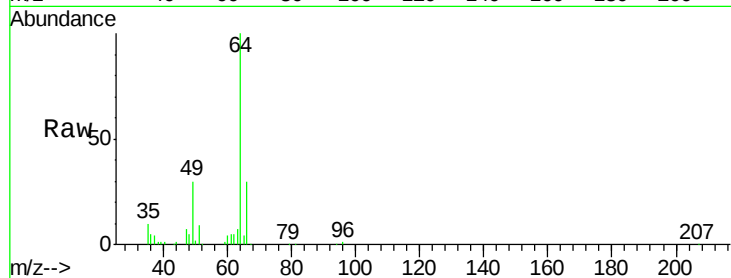
66 29.9 24.3 36.5

Manual Integrations

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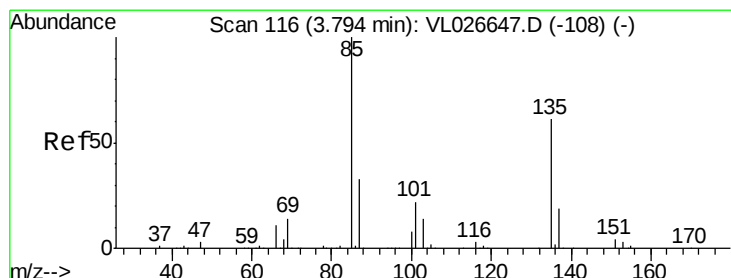
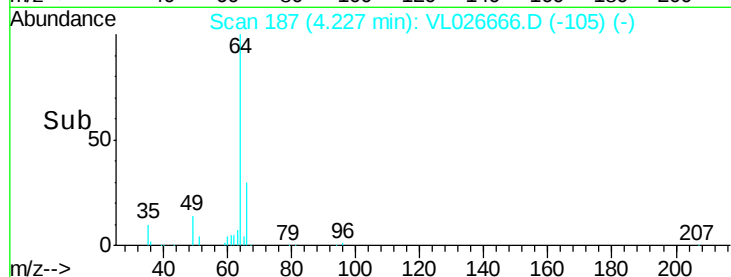
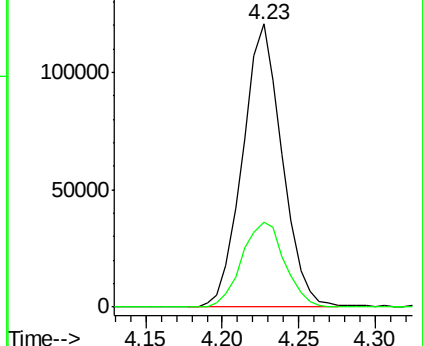
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 10.67 ppbv

RT: 3.79 min Scan# 116

Delta R.T. 0.00 min

Lab File: VL026666.D

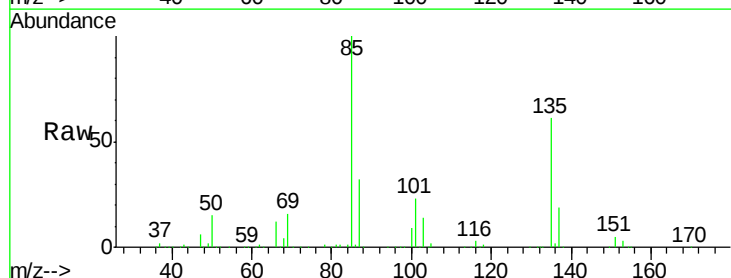
Acq: 9 Jan 2016 8:19

Tgt Ion: 85 Resp: 1510881

Ion Ratio Lower Upper

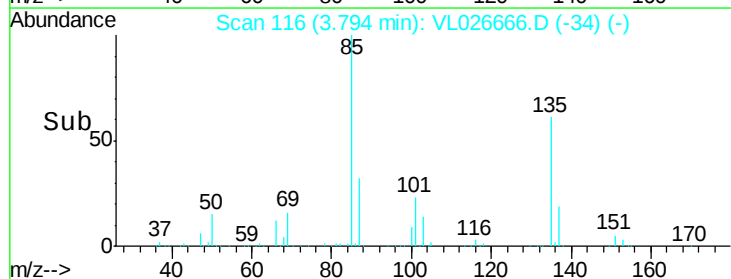
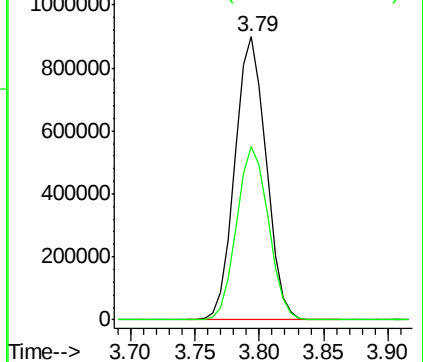
85 100

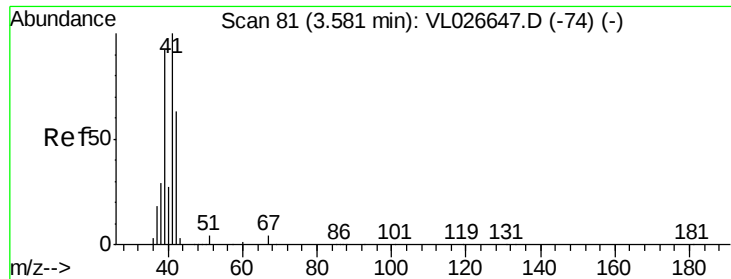
135 62.6 49.8 74.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 8.59 ppbv

RT: 3.58 min Scan# 81

Delta R.T. 0.00 min

Lab File: VL026666.D

Acq: 9 Jan 2016 8:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 278660

Ion Ratio Lower Upper

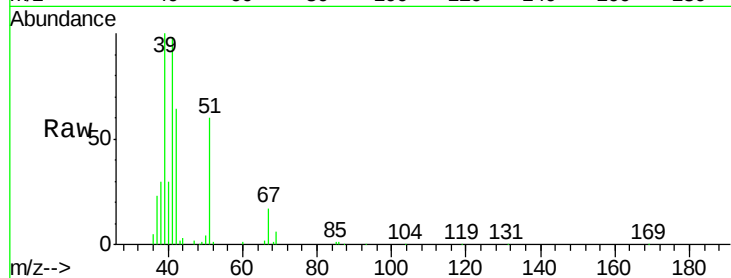
41 100

42 67.6 53.6 80.4

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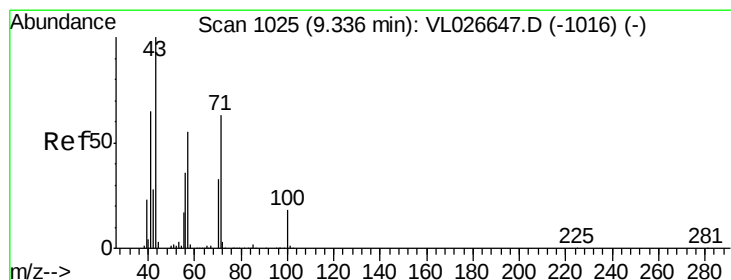
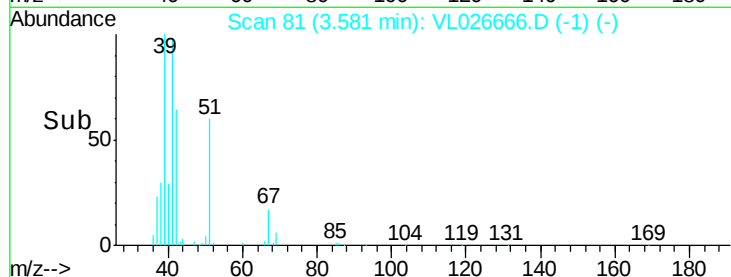
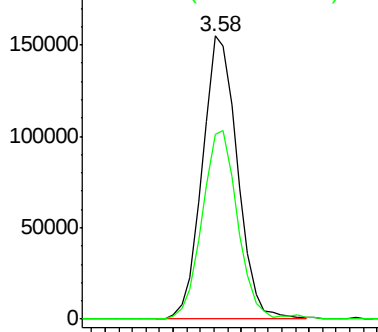
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 9.51 ppbv

RT: 9.34 min Scan# 1025

Delta R.T. 0.00 min

Lab File: VL026666.D

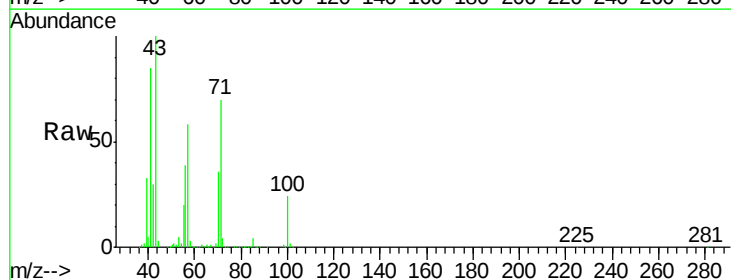
Acq: 9 Jan 2016 8:19

Tgt Ion: 43 Resp: 1149815

Ion Ratio Lower Upper

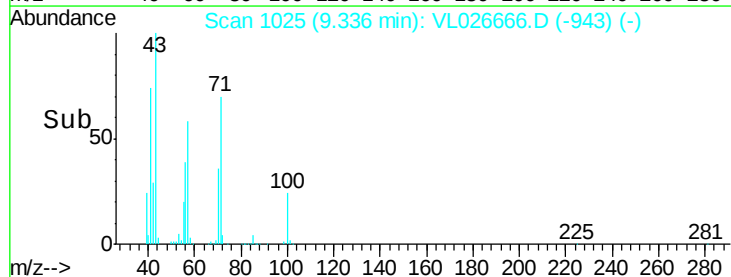
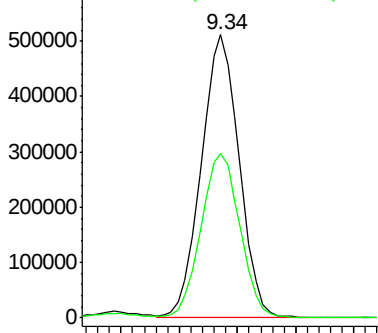
43 100

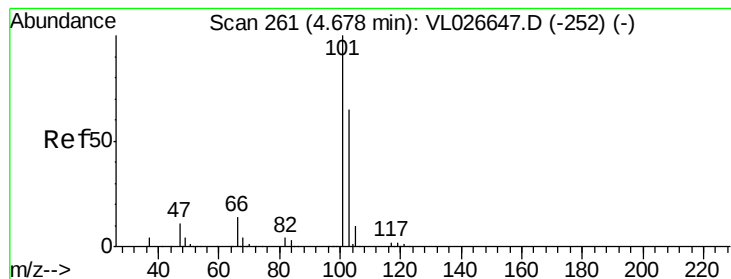
57 60.1 45.8 68.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 11.81 ppbv

RT: 4.68 min Scan# 261

Delta R.T. 0.00 min

Lab File: VL026666.D

Acq: 9 Jan 2016 8:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:101 Resp: 2205215

Ion Ratio Lower Upper

101 100

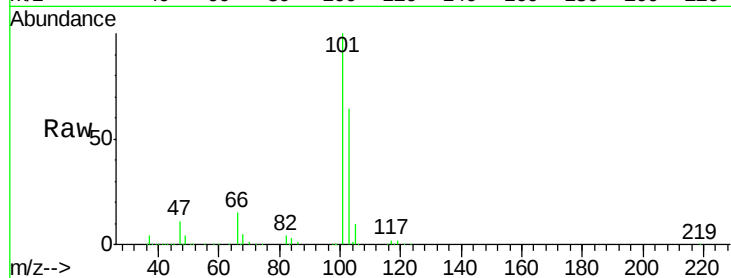
103 64.4 51.7 77.5

Manual Integrations

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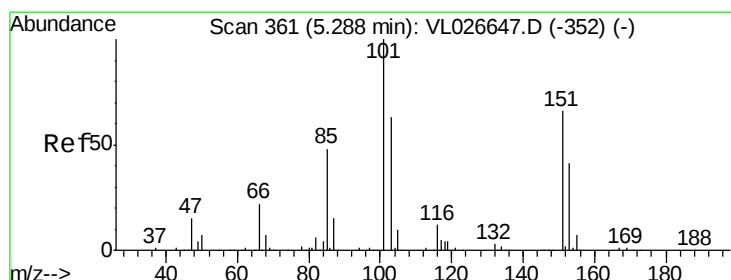
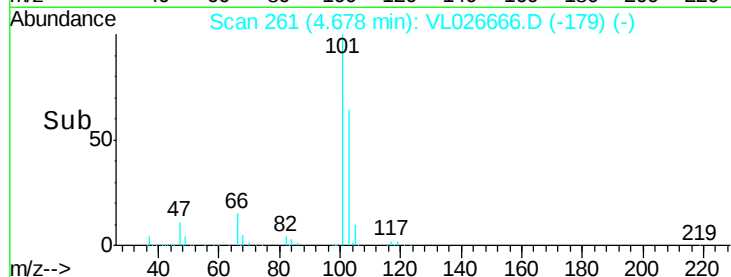
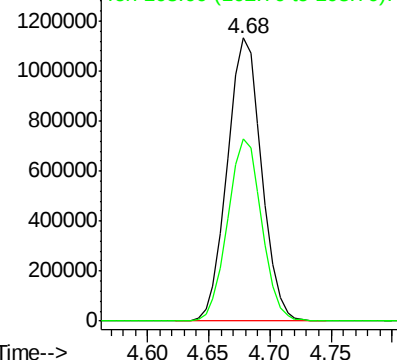
MMdadoda

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 11.10 ppbv

RT: 5.29 min Scan# 361

Delta R.T. 0.00 min

Lab File: VL026666.D

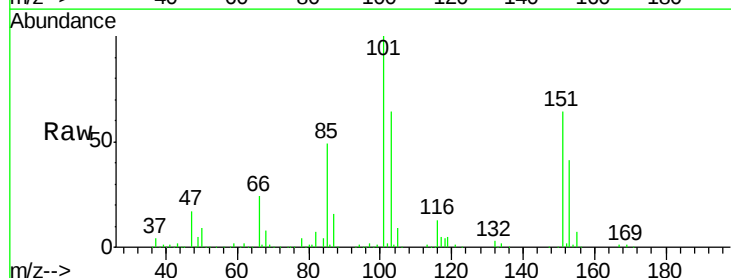
Acq: 9 Jan 2016 8:19

Tgt Ion:101 Resp: 1273375

Ion Ratio Lower Upper

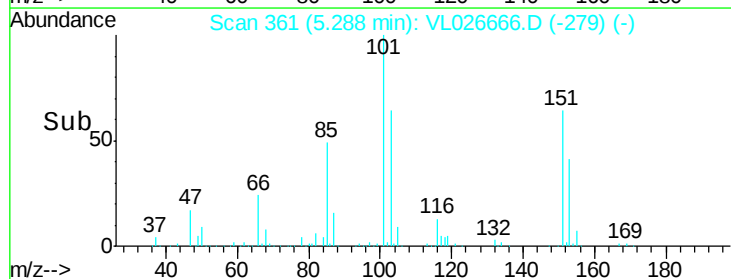
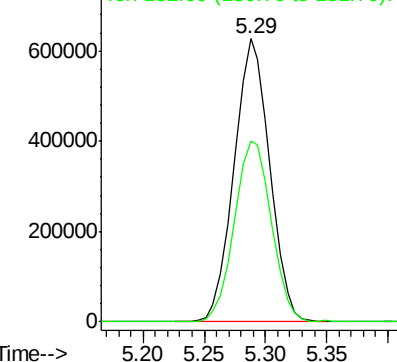
101 100

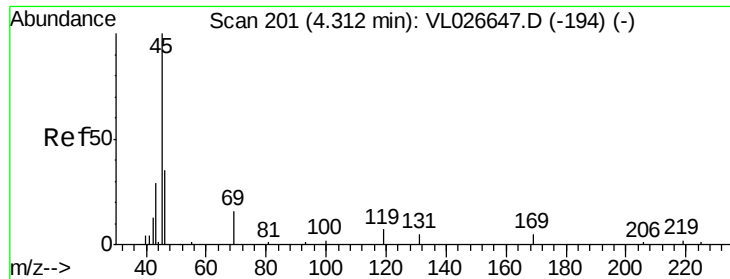
151 66.7 54.2 81.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





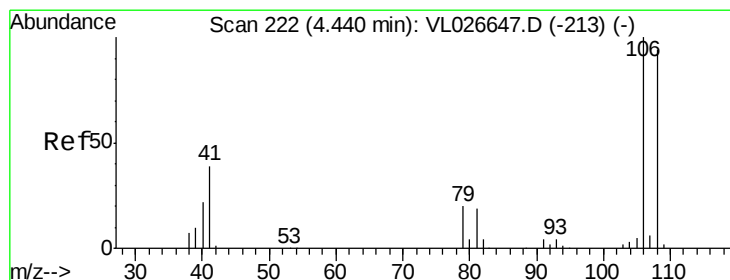
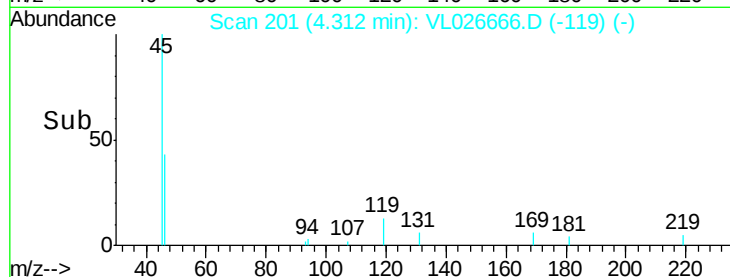
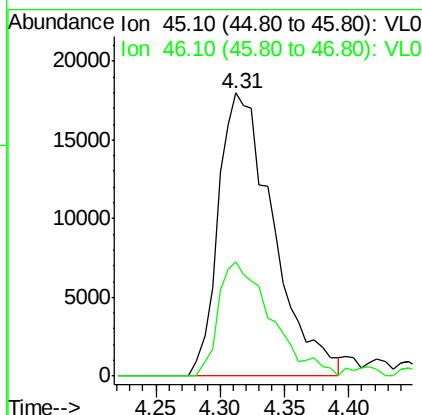
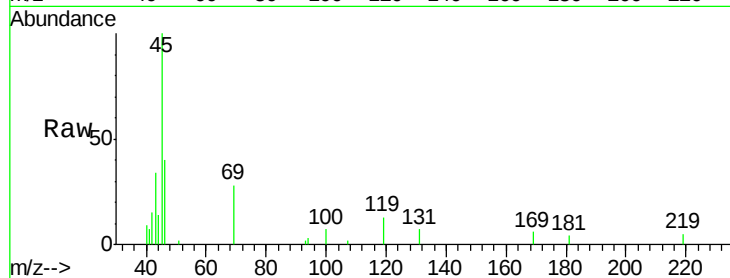
#13
Ethanol
Concen: 8.65 ppbv
RT: 4.31 min Scan# 201
Delta R.T. 0.00 min
Lab File: VL026666.D
Acq: 9 Jan 2016 8:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 45 Resp: 53323
Ion Ratio Lower Upper
45 100
46 42.7 16.7 66.7

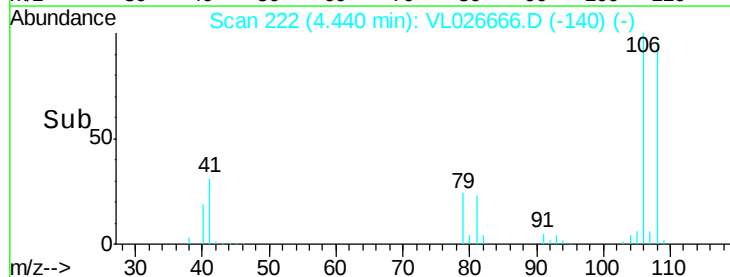
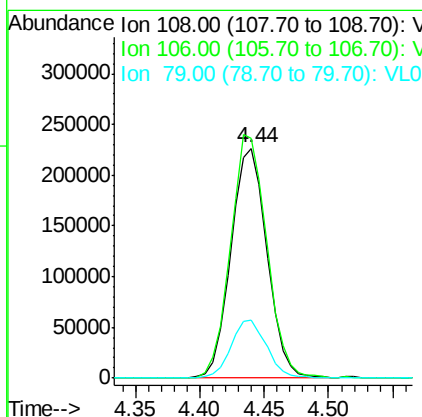
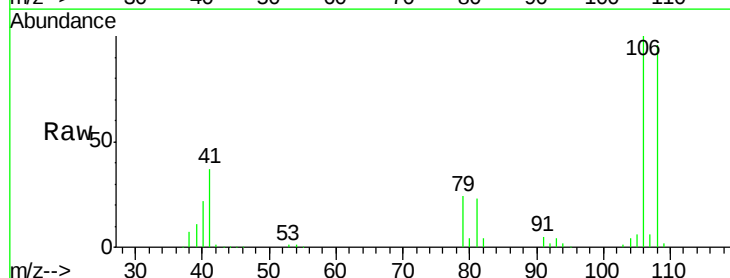
Manual Integrations
APPROVED

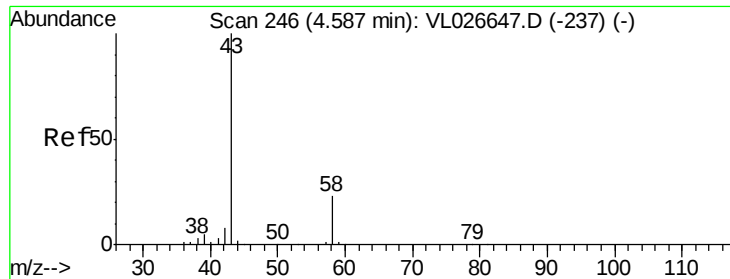
MMdadoda
1/14/2016 10:51:24 AM



#14
Bromoethene
Concen: 10.70 ppbv
RT: 4.44 min Scan# 222
Delta R.T. 0.00 min
Lab File: VL026666.D
Acq: 9 Jan 2016 8:19

Tgt Ion: 108 Resp: 442325
Ion Ratio Lower Upper
108 100
106 106.9 86.4 129.6
79 25.1 17.2 25.8





#15

Acetone

Concen: 9.42 ppbv

RT: 4.59 min Scan# 246

Delta R.T. 0.00 min

Lab File: VL026666.D

Acq: 9 Jan 2016 8:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1049486

Ion Ratio Lower Upper

43 100

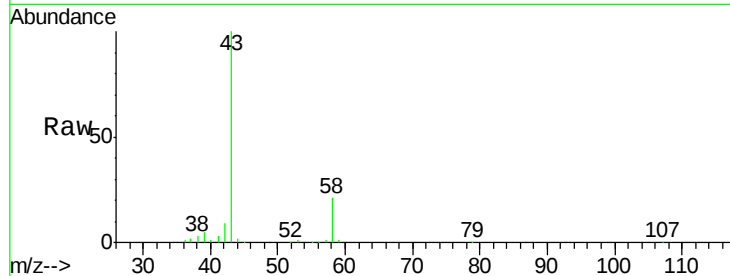
58 22.5 19.2 28.8

Manual Integrations

APPROVED

MMdadoda

1/14/2016 10:51:24 AM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

600000

500000

400000

300000

200000

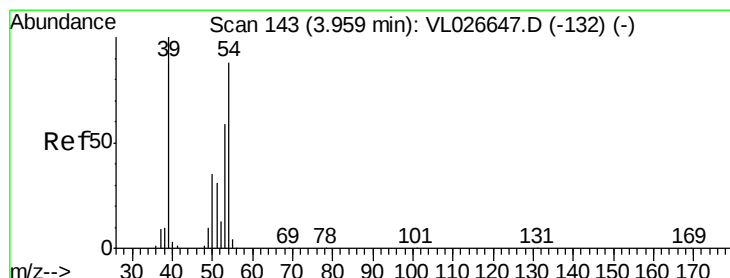
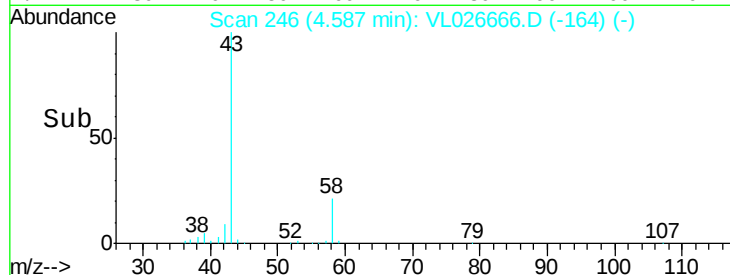
100000

0

4.59

4.50 4.60 4.70

Time-->



#16

1,3-Butadiene

Concen: 9.66 ppbv

RT: 3.96 min Scan# 143

Delta R.T. 0.00 min

Lab File: VL026666.D

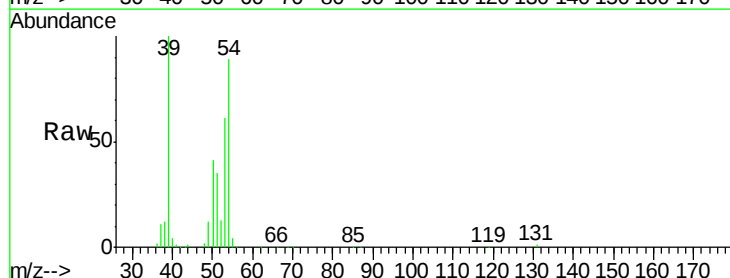
Acq: 9 Jan 2016 8:19

Tgt Ion: 39 Resp: 429973

Ion Ratio Lower Upper

39 100

54 80.7 66.6 100.0



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

250000

200000

150000

100000

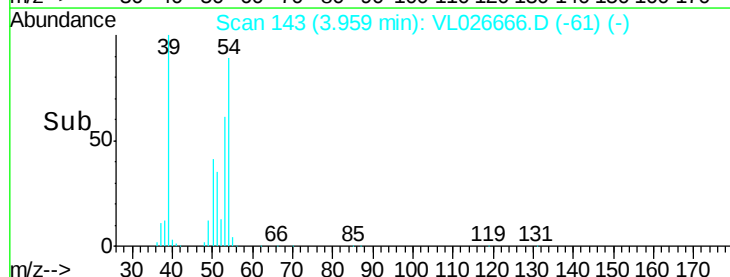
50000

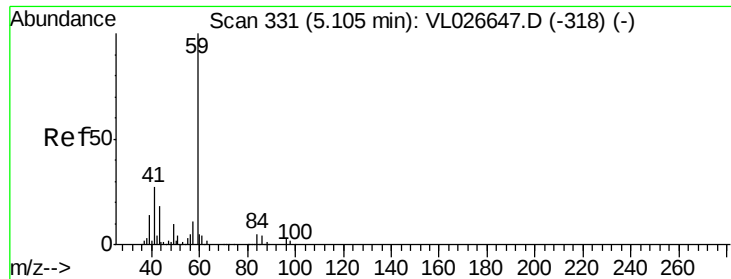
0

3.96

3.90 4.00

Time-->





#17

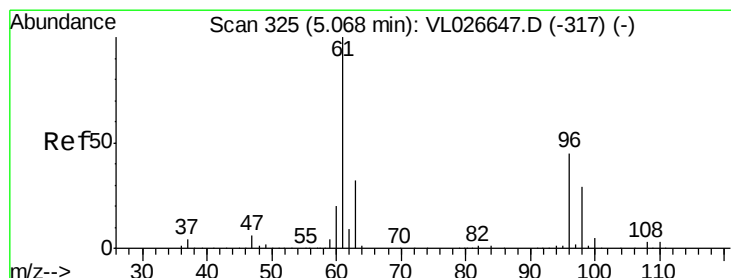
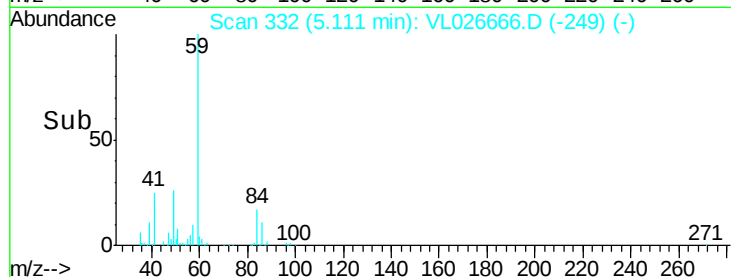
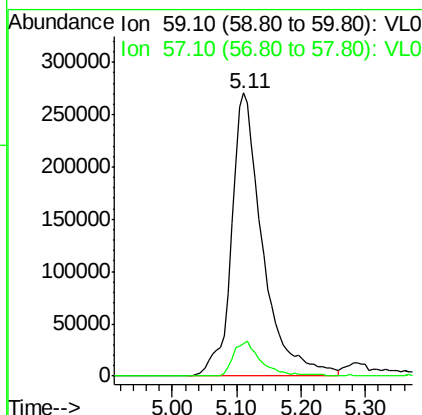
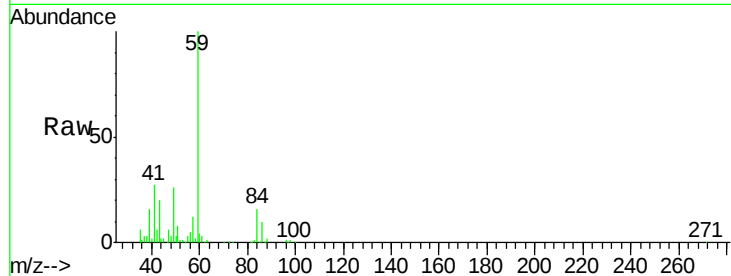
tert-Butyl alcohol
Concen: 10.81 ppbv
RT: 5.11 min Scan# 332
Delta R.T. 0.01 min
Lab File: VL026666.D
Acq: 9 Jan 2016 8:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.4	9.0	13.6

Manual Integrations
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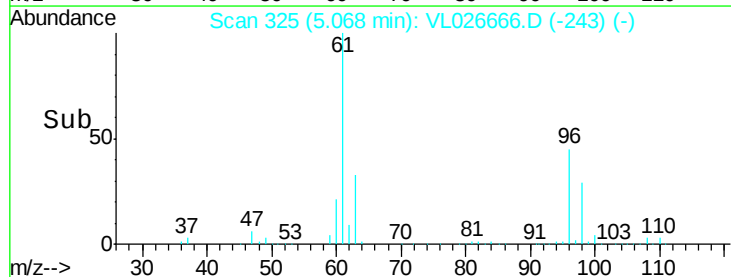
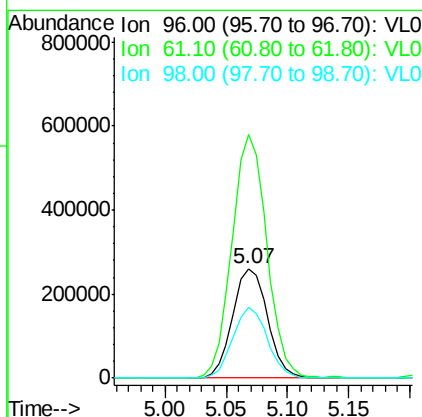
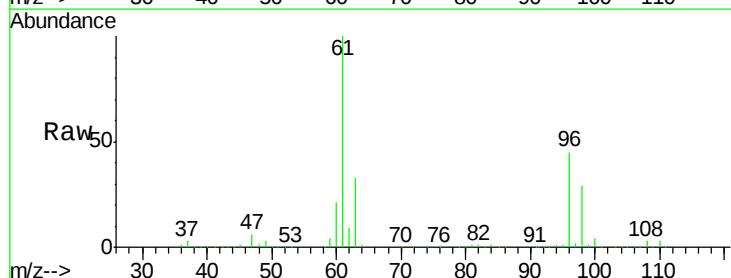
MMdadoda
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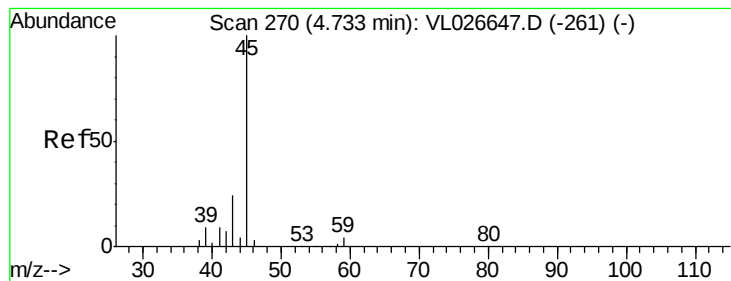


#18

1,1-Dichloroethene
Concen: 10.84 ppbv
RT: 5.07 min Scan# 325
Delta R.T. 0.00 min
Lab File: VL026666.D
Acq: 9 Jan 2016 8:19

Tgt Ion	Ratio	Lower	Upper
96	100		
61	221.8	176.7	265.1
98	64.6	51.8	77.6





#19

Isopropyl Alcohol

Concen: 9.94 ppbv

RT: 4.73 min Scan# 270

Delta R.T. 0.00 min

Lab File: VL026666.D

Acq: 9 Jan 2016 8:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 456806

Ion Ratio Lower Upper

45 100

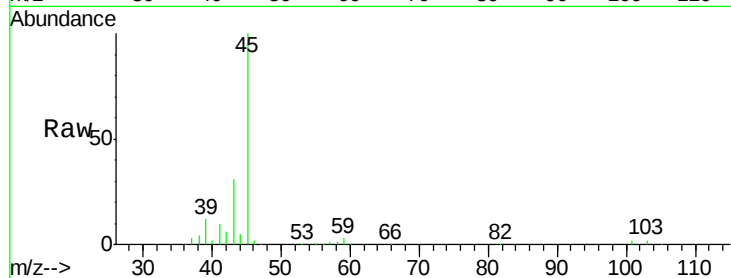
58 1.8 1.3 1.9

Manual Integrations

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.73

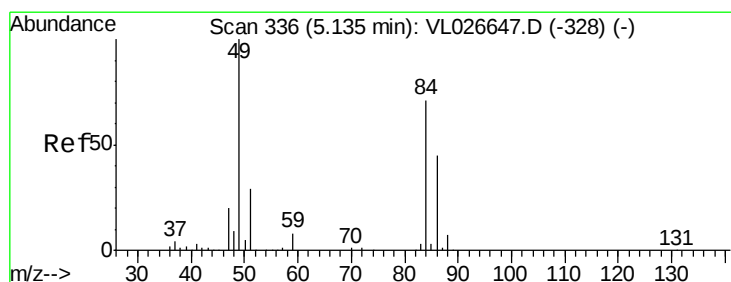
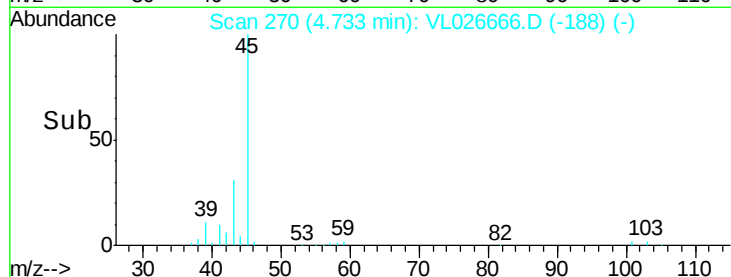
150000

100000

50000

0

Time-->



#20

Methylene Chloride

Concen: 10.21 ppbv

RT: 5.14 min Scan# 336

Delta R.T. 0.00 min

Lab File: VL026666.D

Acq: 9 Jan 2016 8:19

Tgt Ion: 84 Resp: 466934

Ion Ratio Lower Upper

84 100

49 136.9 112.3 168.5

51 41.9 32.5 48.7

86 64.3 50.3 75.5

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

500000

400000

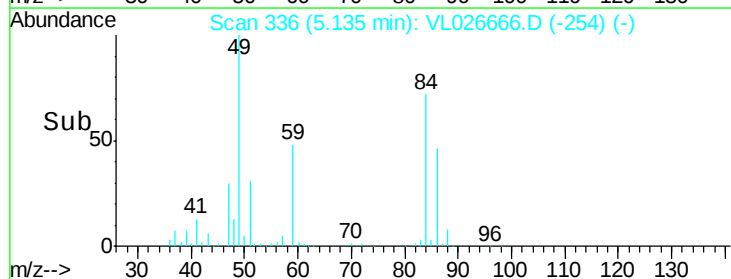
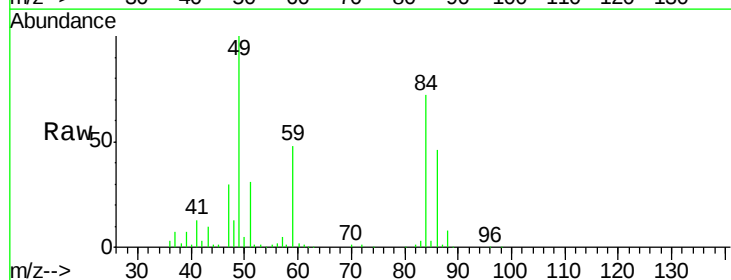
300000

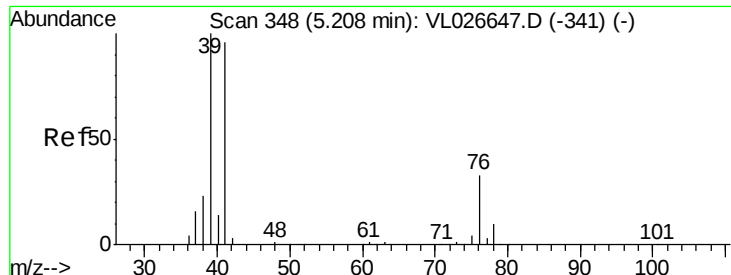
200000

100000

0

Time-->





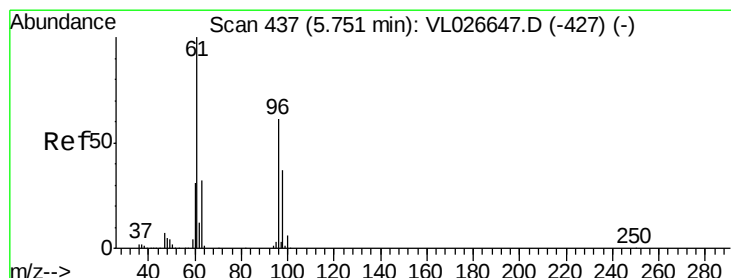
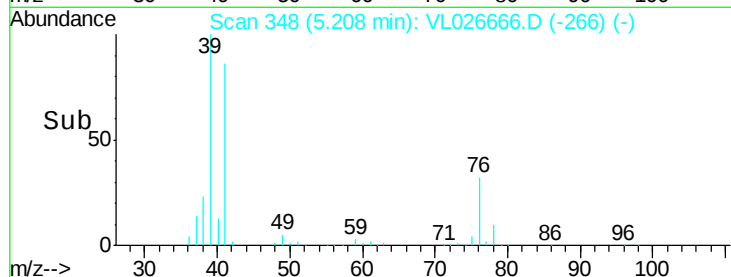
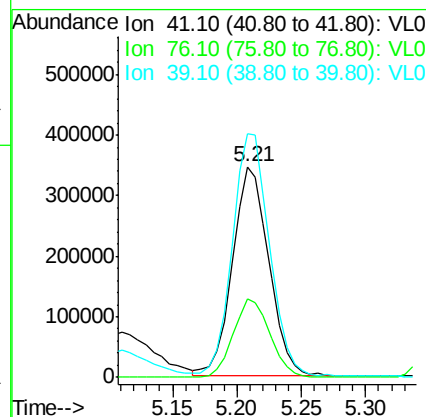
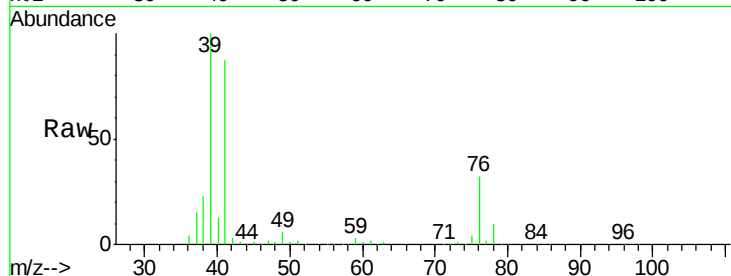
#21
Allvl Chloride
Concen: 9.93 ppbv
RT: 5.21 min Scan# 348
Delta R.T. 0.00 min
Lab File: VL026666.D
Acq: 9 Jan 2016 8:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	37.7	27.5	41.3
39	120.8	83.0	124.6

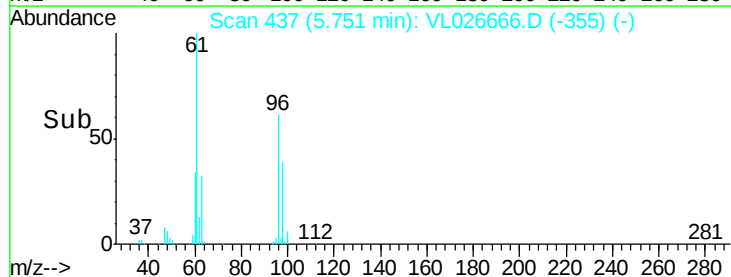
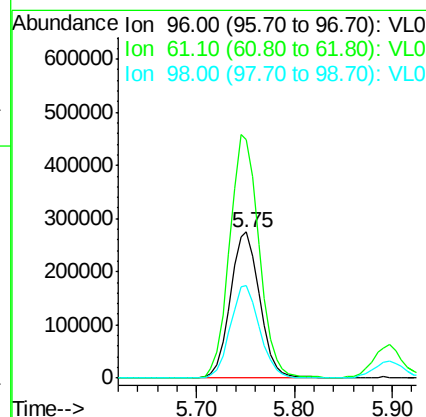
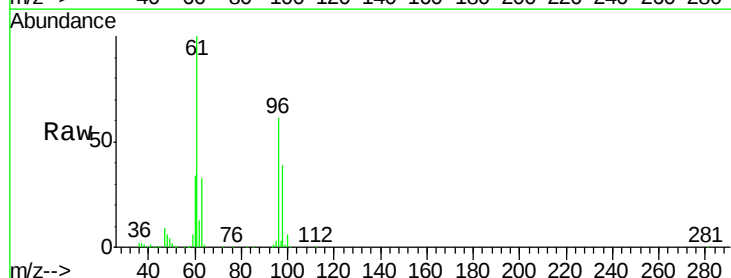
Manual Integrations
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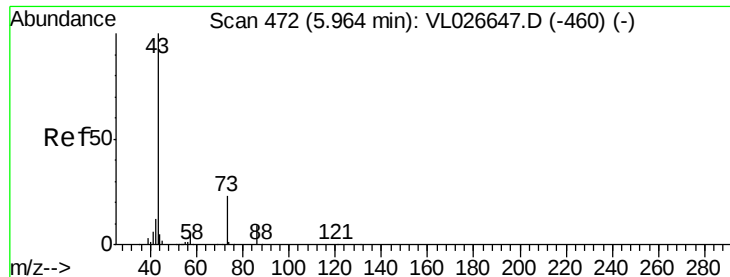
MMdadoda
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#22
trans-1,2-Dichloroethene
Concen: 10.49 ppbv
RT: 5.75 min Scan# 437
Delta R.T. 0.00 min
Lab File: VL026666.D
Acq: 9 Jan 2016 8:19

Tgt Ion	Ratio	Lower	Upper
96	100		
61	163.0	131.0	196.6
98	63.4	48.1	72.1





#23

Vinyl Acetate

Concen: 10.25 ppbv

RT: 5.97 min Scan# 473

Delta R.T. 0.01 min

Lab File: VL026666.D

Acq: 9 Jan 2016 8:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1754317

Ion Ratio Lower Upper

43 100

86 9.3 7.4 11.0

42 11.5 9.2 13.8

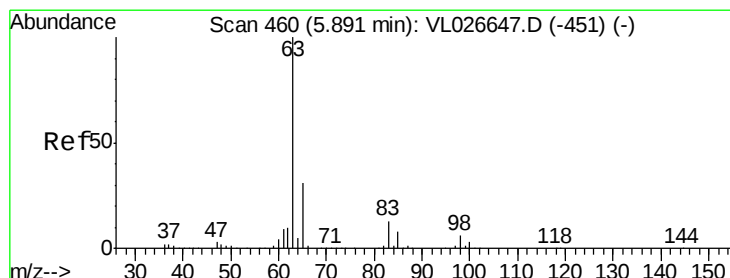
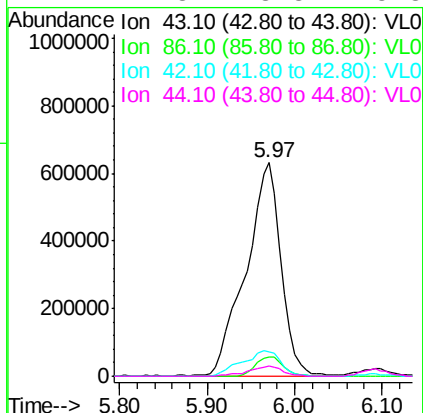
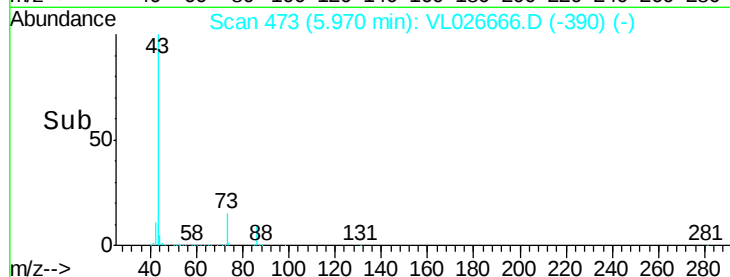
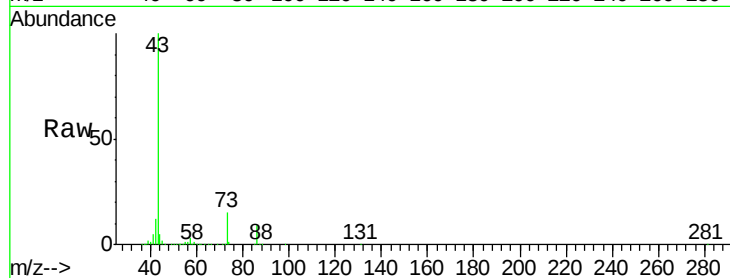
44 4.8 3.8 5.8

Manual Integrations

APPROVED

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#24

1,1-Dichloroethane

Concen: 10.07 ppbv

RT: 5.90 min Scan# 461

Delta R.T. 0.01 min

Lab File: VL026666.D

Acq: 9 Jan 2016 8:19

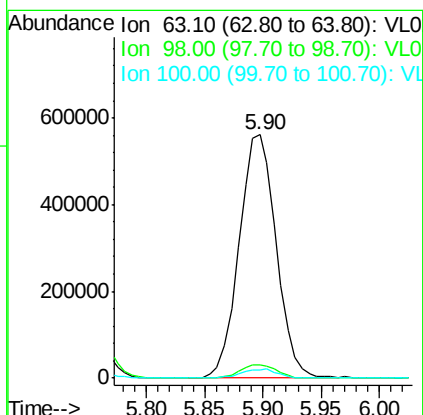
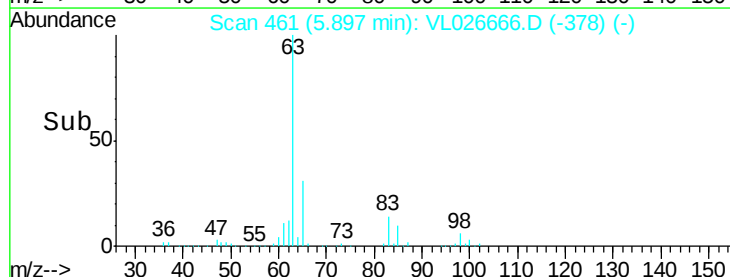
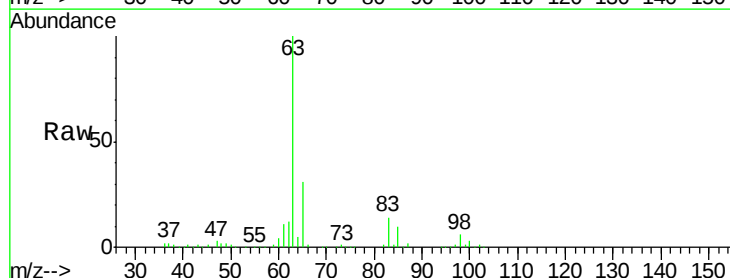
Tgt Ion: 63 Resp: 1242373

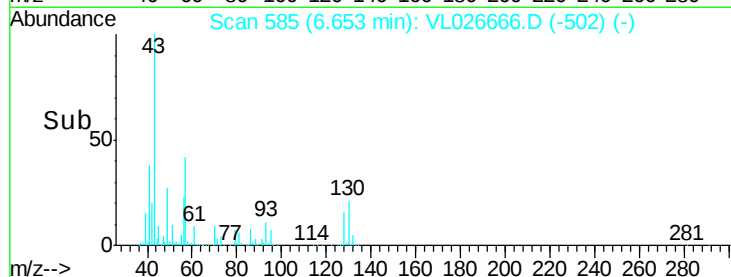
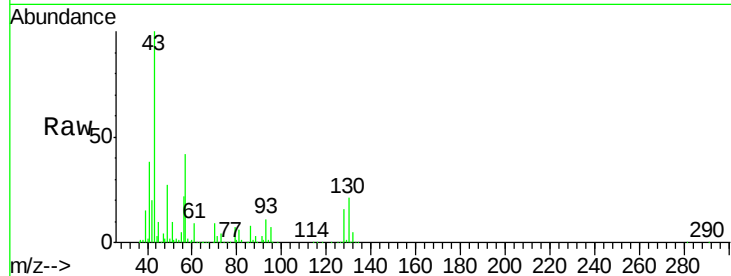
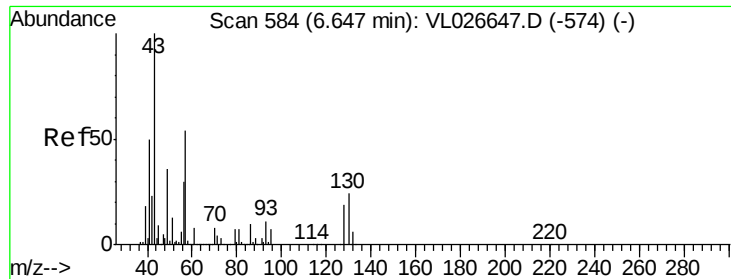
Ion Ratio Lower Upper

63 100

98 5.6 2.9 8.7

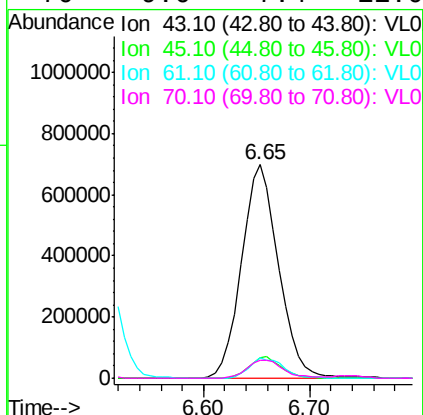
100 3.3 1.6 4.8





#25
Ethyl Acetate
Concen: 9.86 ppbv
RT: 6.65 min Scan# 585
Delta R.T. 0.01 min
Lab File: VL026666.D
Acq: 9 Jan 2016 8:19

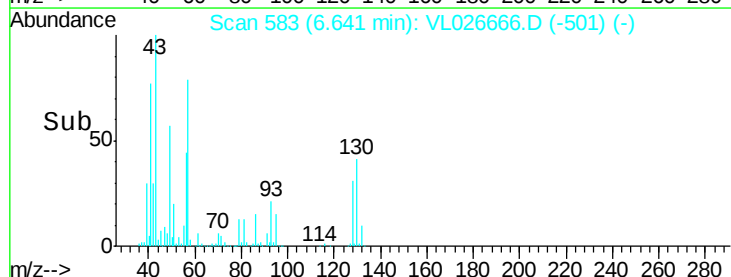
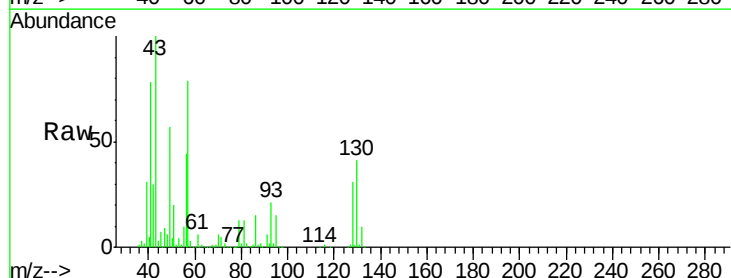
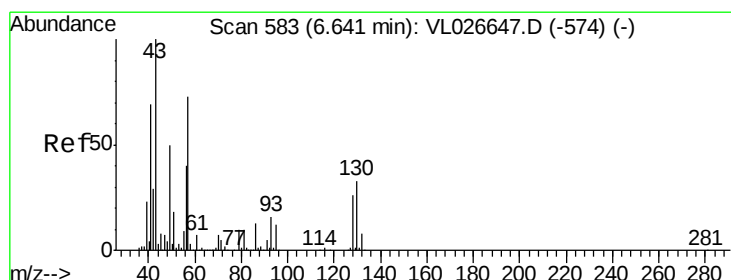
Tot Ion	43	Resp	1696015
Ion	Ratio	Lower	Upper
43	100		
45	9.1	7.5	11.3
61	9.1	7.3	10.9
70	9.6	7.4	11.0



Instrument :
MSVOA_L
ClientSampleID :
VSTDCCC010EC

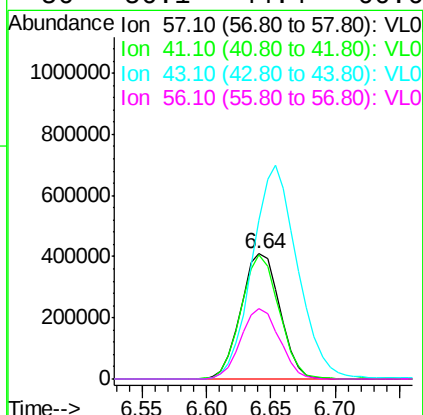
Manual Integrations
APPROVED

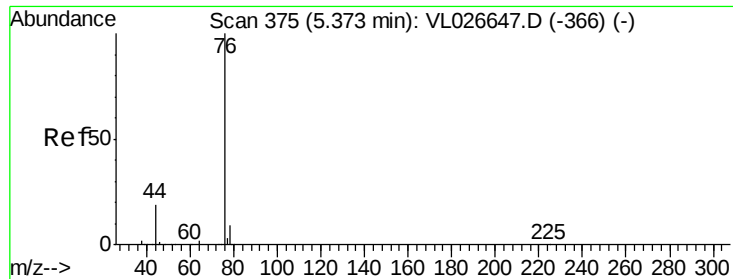
MMdadoda
1/14/2016 10:51:24 AM



#26
Hexane
Concen: 9.63 ppbv
RT: 6.64 min Scan# 583
Delta R.T. 0.00 min
Lab File: VL026666.D
Acq: 9 Jan 2016 8:19

Tgt Ion	57	Resp	856499
Ion	Ratio	Lower	Upper
57	100		
41	98.3	74.8	112.2
43	198.4	161.5	242.3
56	56.1	44.4	66.6





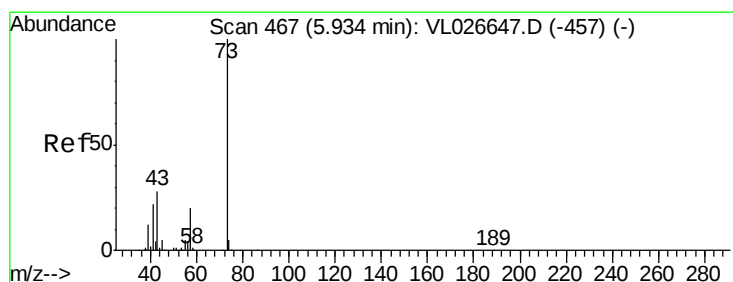
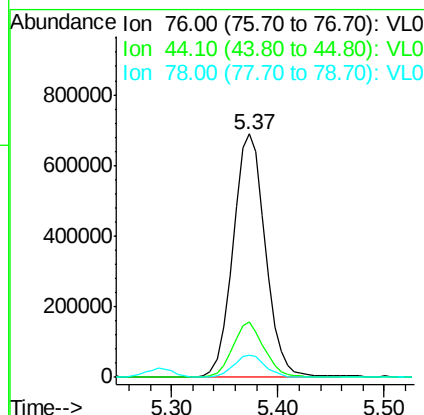
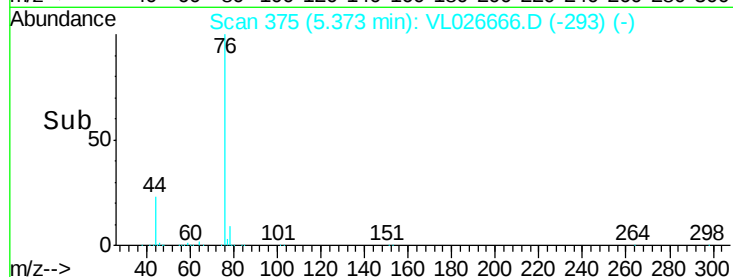
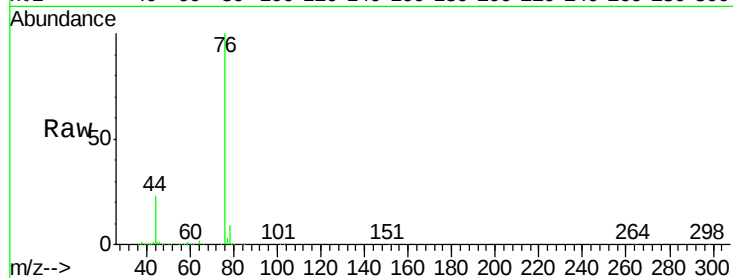
#27
Carbon Disulfide
Concen: 11.11 ppbv
RT: 5.37 min Scan# 375
Delta R.T. 0.00 min
Lab File: VL026666.D
Acq: 9 Jan 2016 8:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 76 Resp: 1468871
Ion Ratio Lower Upper
76 100
44 22.5 15.9 23.9
78 9.3 7.6 11.4

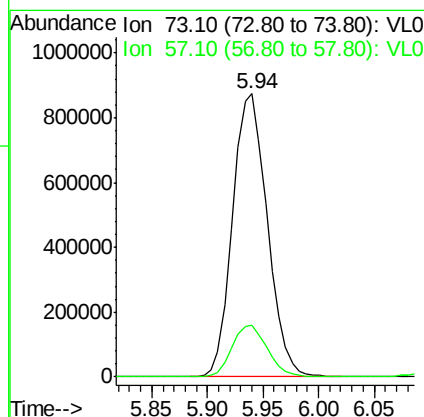
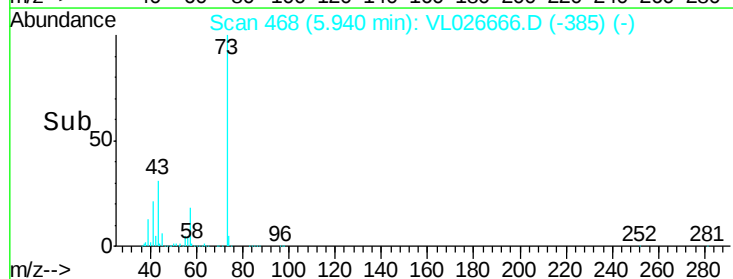
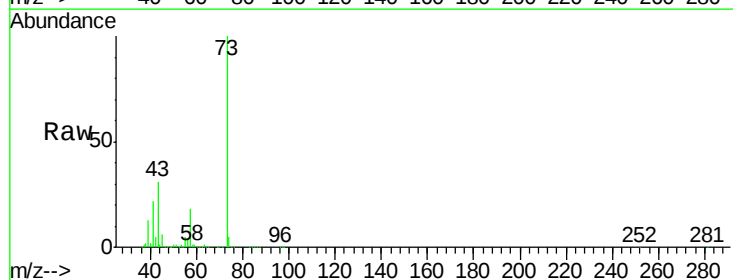
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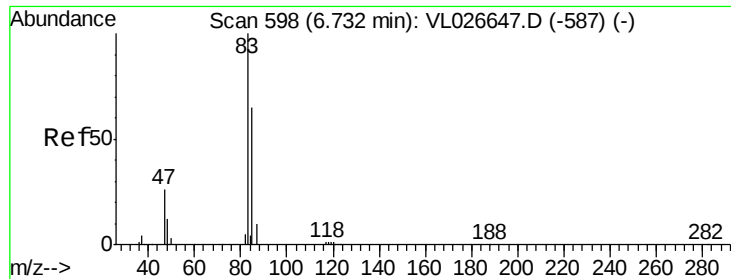
MMdadoda
1/14/2016 10:51:24 AM



#28
Methyl tert-Butyl Ether
Concen: 10.71 ppbv
RT: 5.94 min Scan# 468
Delta R.T. 0.01 min
Lab File: VL026666.D
Acq: 9 Jan 2016 8:19

Tgt Ion: 73 Resp: 1894720
Ion Ratio Lower Upper
73 100
57 18.9 16.2 24.4





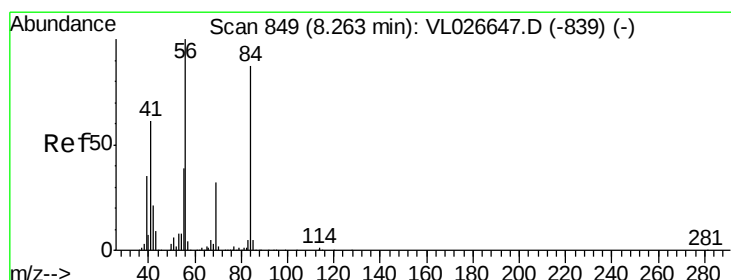
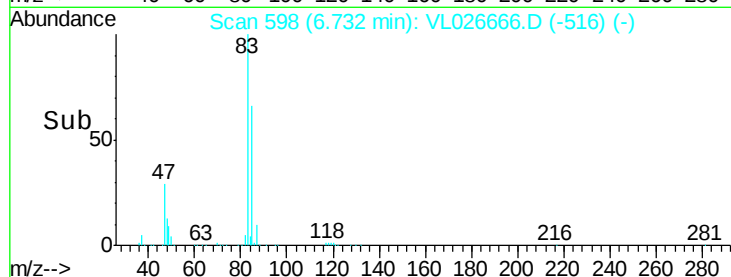
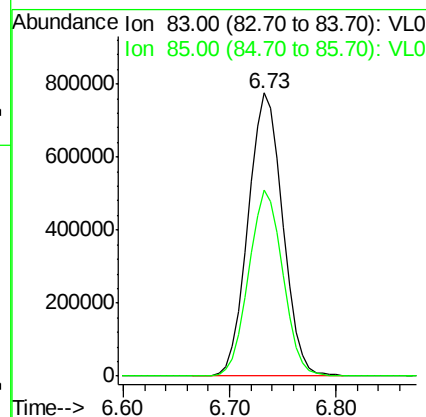
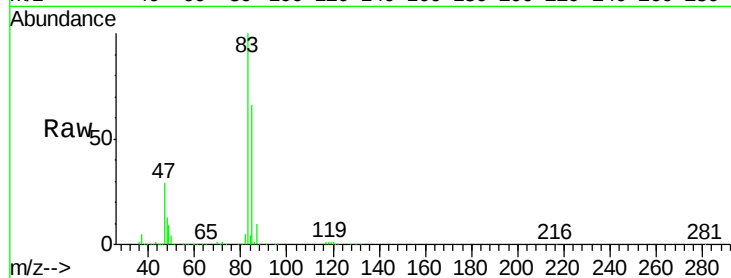
#29
Chloroform
Concen: 10.98 ppbv
RT: 6.73 min Scan# 598
Delta R.T. 0.00 min
Lab File: VL026666.D
Acq: 9 Jan 2016 8:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1773296
Ion Ratio Lower Upper
83 100
85 65.6 51.6 77.4

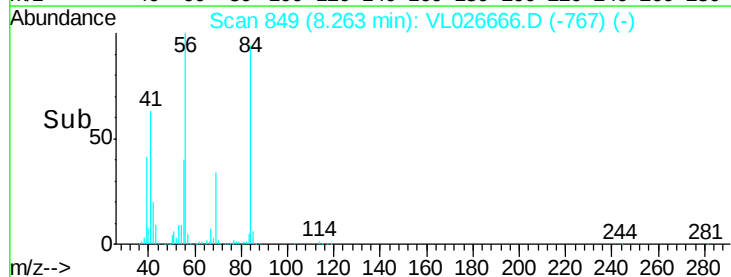
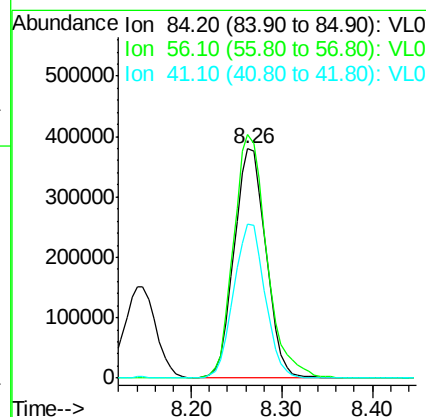
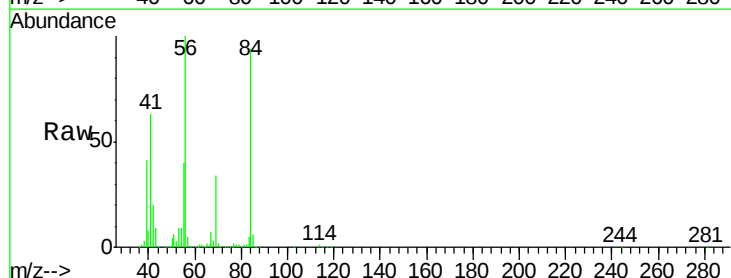
Manual Integrations
APPROVED

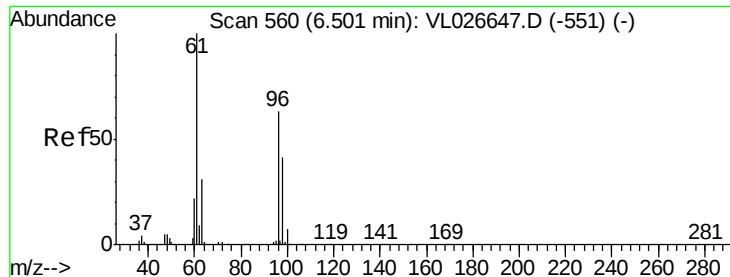
MMdadoda
1/14/2016 10:51:24 AM



#30
Cyclohexane
Concen: 10.53 ppbv
RT: 8.26 min Scan# 849
Delta R.T. 0.00 min
Lab File: VL026666.D
Acq: 9 Jan 2016 8:19

Tgt Ion: 84 Resp: 924450
Ion Ratio Lower Upper
84 100
56 111.3 95.9 143.9
41 65.9 54.8 82.2





#31

cis-1,2-Dichloroethene

Concen: 10.56 ppbv

RT: 6.50 min Scan# 560

Delta R.T. 0.00 min

Lab File: VL026666.D

Acq: 9 Jan 2016 8:19

Instrument :

MSVOA_L

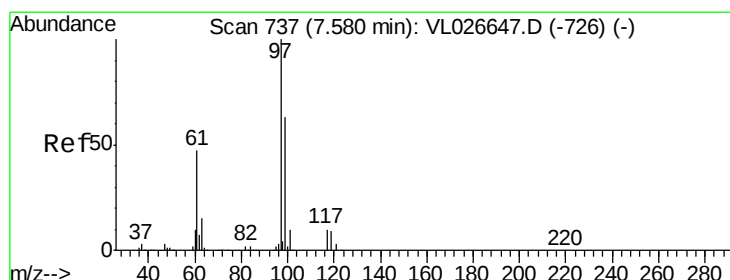
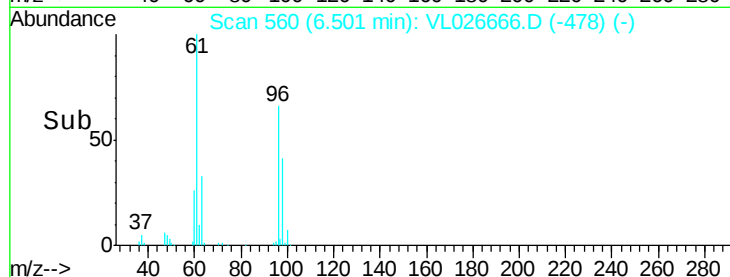
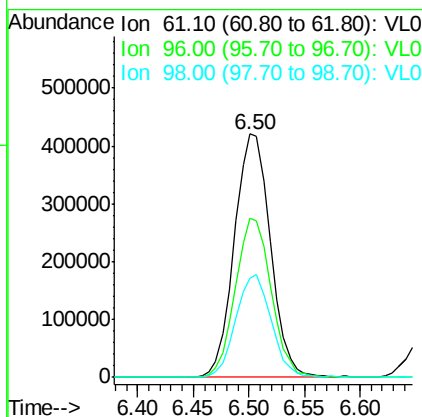
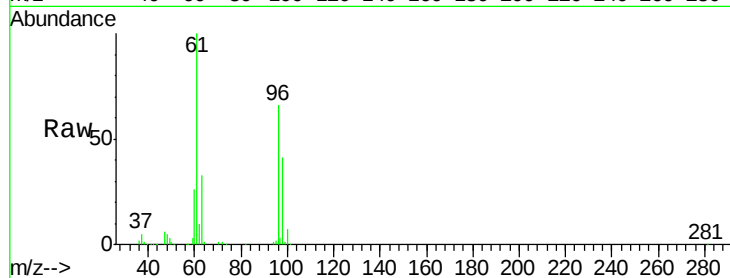
ClientSampleId :

VSTDCCC010EC

Tot Ion:	61.10	Resp:	947080
Ion	Ratio	Lower	Upper
61	100		
96	65.5	50.2	75.4
98	40.7	32.4	48.6

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MMdadoda
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#32

1,1,1-Trichloroethane

Concen: 10.84 ppbv

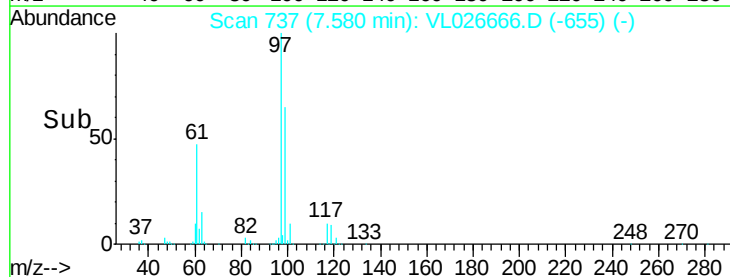
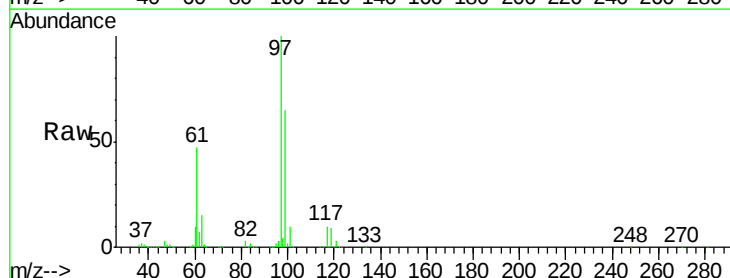
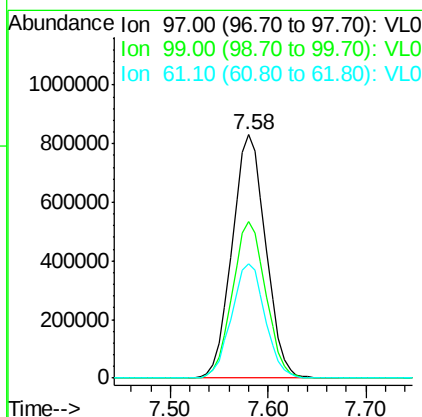
RT: 7.58 min Scan# 737

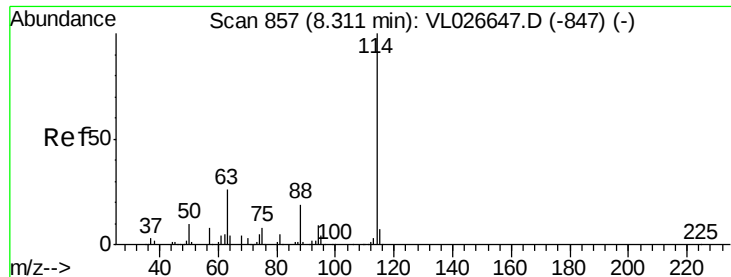
Delta R.T. 0.00 min

Lab File: VL026666.D

Acq: 9 Jan 2016 8:19

Tgt Ion:	97	Resp:	1975827
Ion	Ratio	Lower	Upper
97	100		
99	64.0	50.8	76.2
61	47.2	38.9	58.3





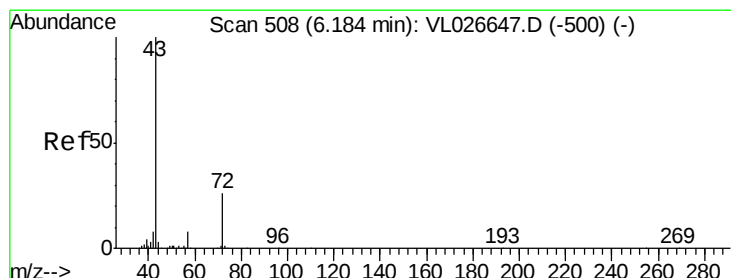
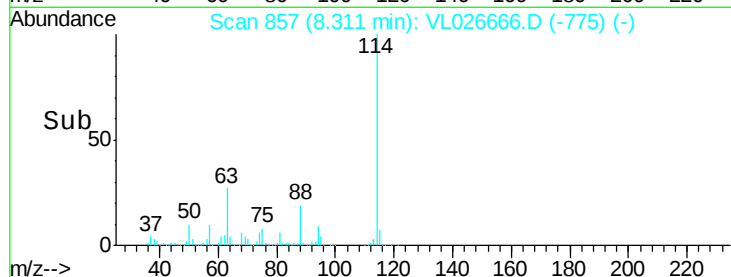
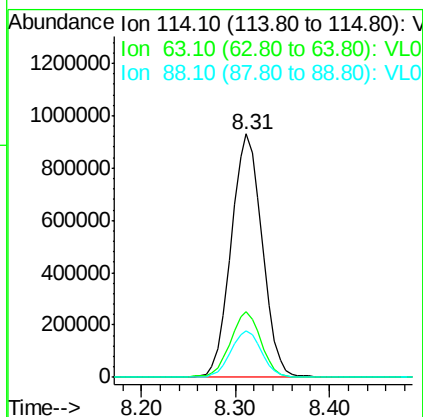
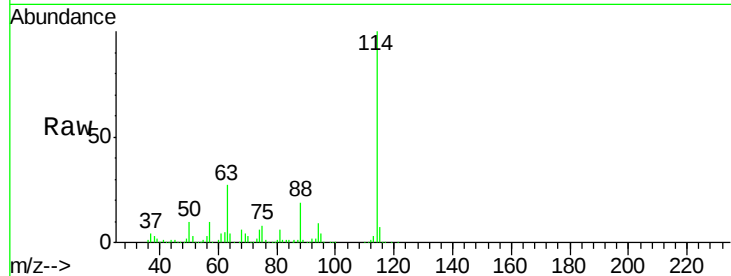
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.31 min Scan# 857
 Delta R.T. 0.00 min
 Lab File: VL026666.D
 Acq: 9 Jan 2016 8:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.0	21.7	32.5
88	18.9	15.2	22.8

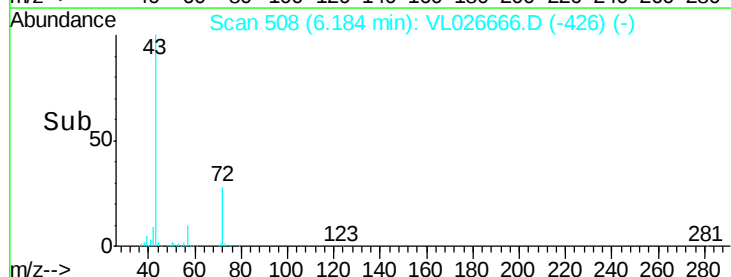
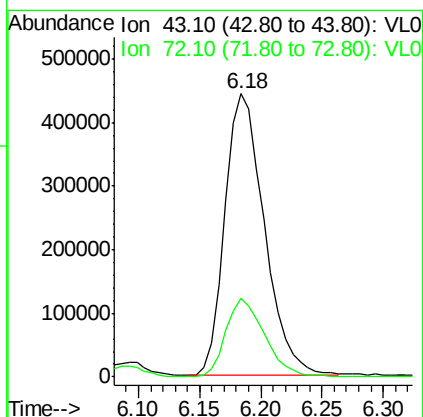
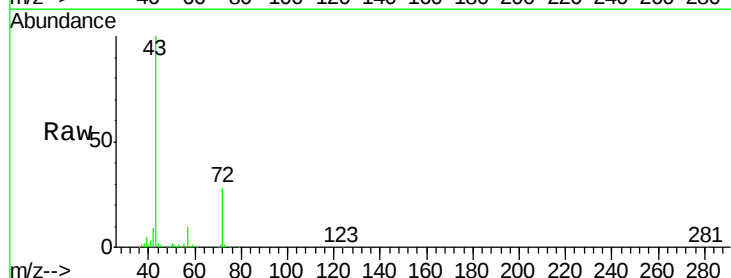
Manual Integrations
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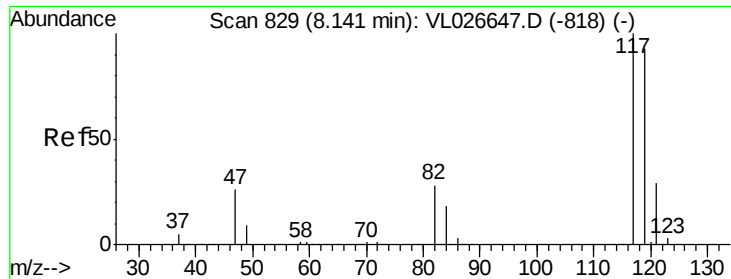
MMdadoda
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#34
 2-Butanone
 Concen: 8.70 ppbv
 RT: 6.18 min Scan# 508
 Delta R.T. 0.00 min
 Lab File: VL026666.D
 Acq: 9 Jan 2016 8:19

Tgt Ion	Ratio	Lower	Upper
43	100		
72	27.6	20.9	31.3





#35

Carbon Tetrachloride

Concen: 10.73 ppbv

RT: 8.15 min Scan# 830

Delta R.T. 0.01 min

Lab File: VL026666.D

Acq: 9 Jan 2016 8:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 2018378

Ion Ratio Lower Upper

117 100

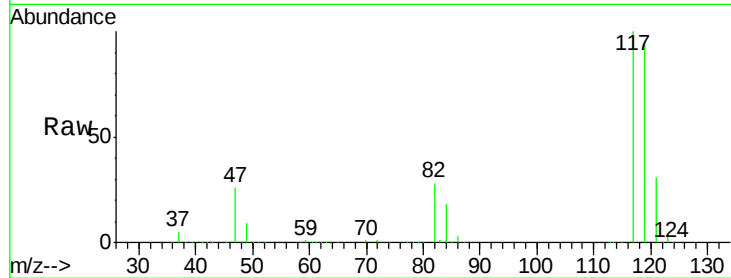
119 94.8 74.7 112.1

121 30.8 23.1 34.7

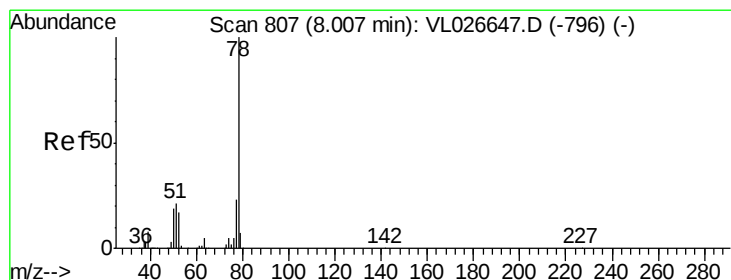
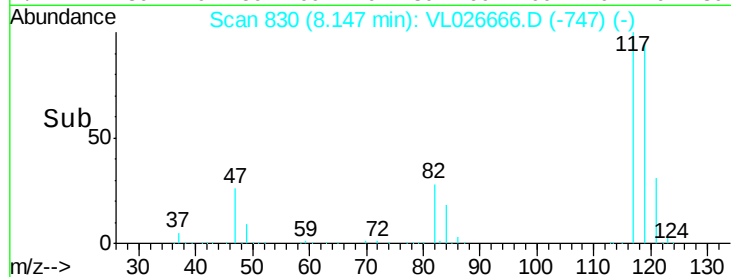
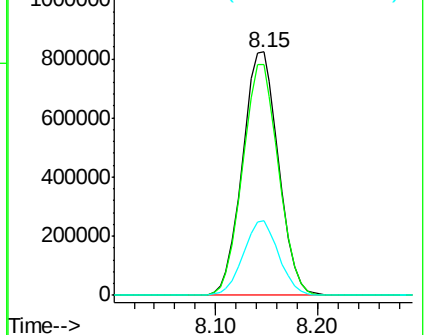
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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 9.34 ppbv

RT: 8.01 min Scan# 807

Delta R.T. 0.00 min

Lab File: VL026666.D

Acq: 9 Jan 2016 8:19

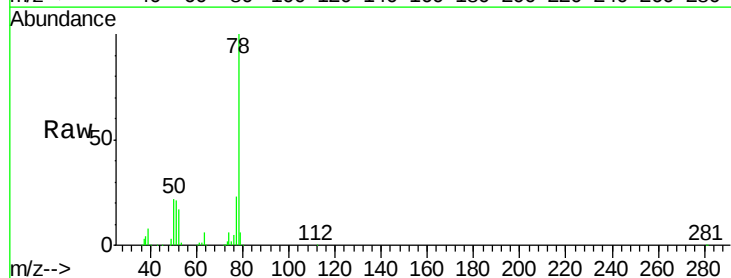
Tgt Ion: 78 Resp: 2055355

Ion Ratio Lower Upper

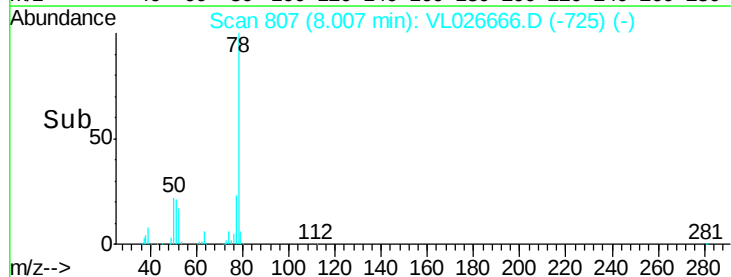
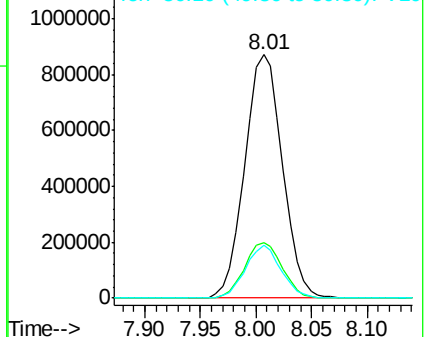
78 100

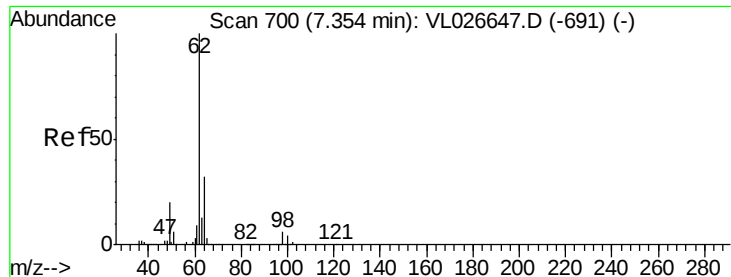
77 22.9 18.5 27.7

50 21.6 15.4 23.2



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0





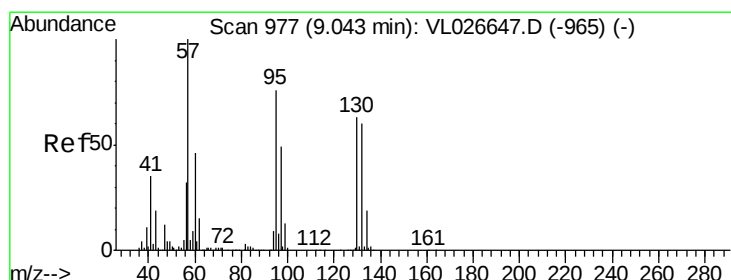
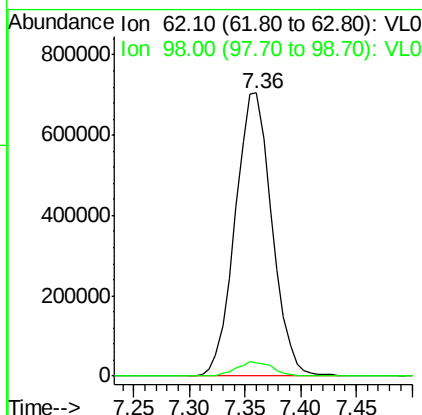
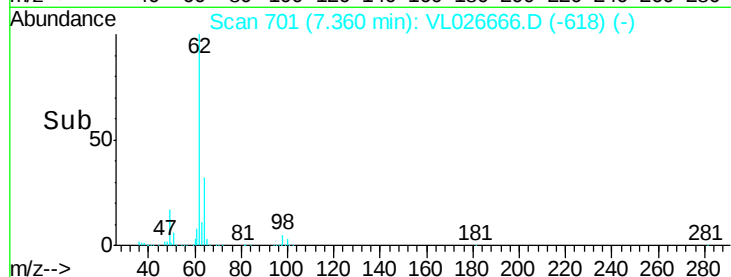
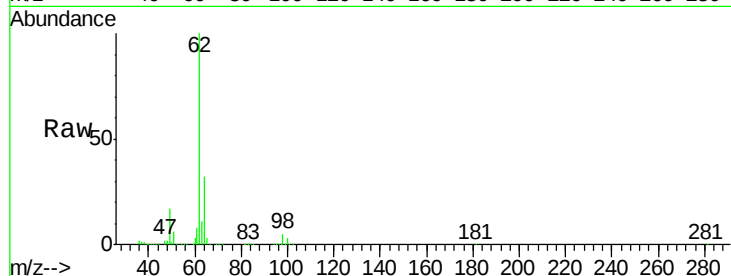
#37
 1,2-Dichloroethane
 Concen: 10.75 ppbv
 RT: 7.36 min Scan# 701
 Delta R.T. 0.01 min
 Lab File: VL026666.D
 Acq: 9 Jan 2016 8:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 62 Resp: 1618256
 Ion Ratio Lower Upper
 62 100
 98 5.2 4.8 7.2

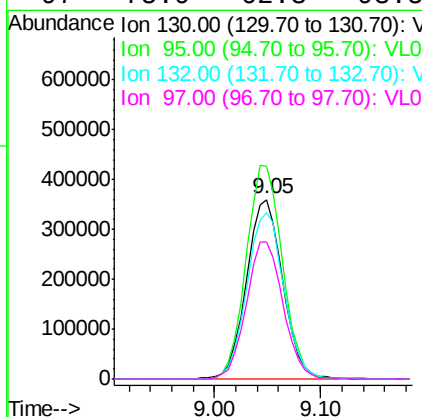
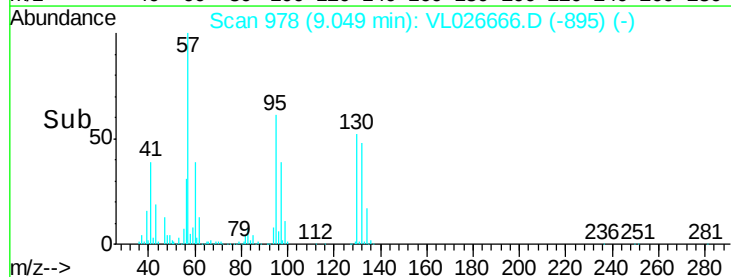
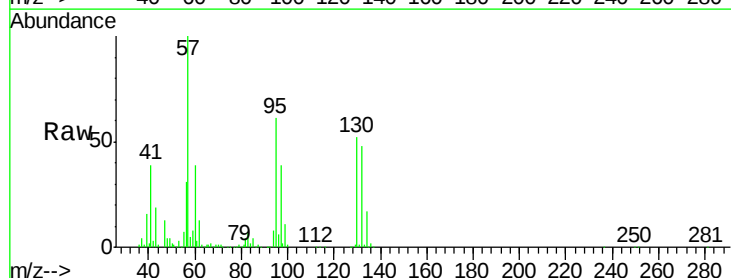
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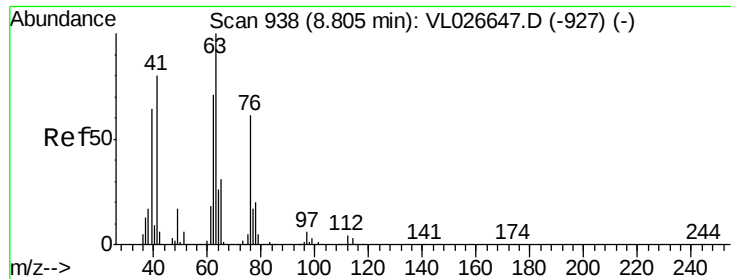
MMdadoda
 1/14/2016 10:51:24 AM



#38
 Trichloroethene
 Concen: 8.74 ppbv
 RT: 9.05 min Scan# 978
 Delta R.T. 0.01 min
 Lab File: VL026666.D
 Acq: 9 Jan 2016 8:19

Tgt Ion: 130 Resp: 858438
 Ion Ratio Lower Upper
 130 100
 95 118.0 96.6 145.0
 132 92.8 76.2 114.4
 97 75.9 62.3 93.5





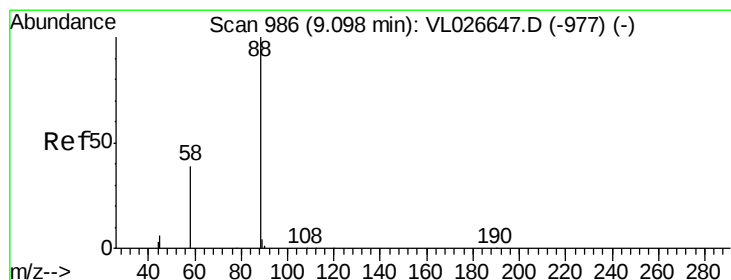
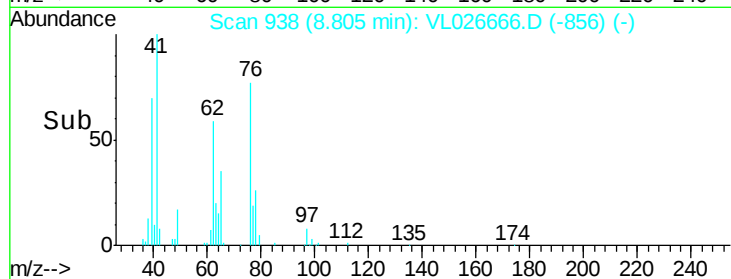
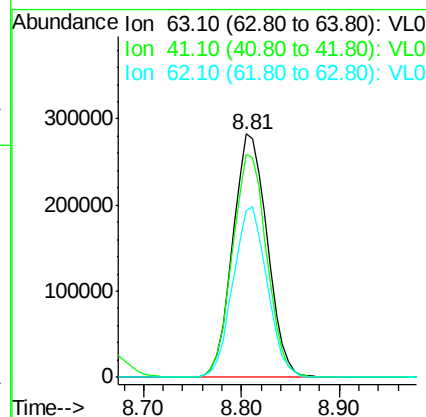
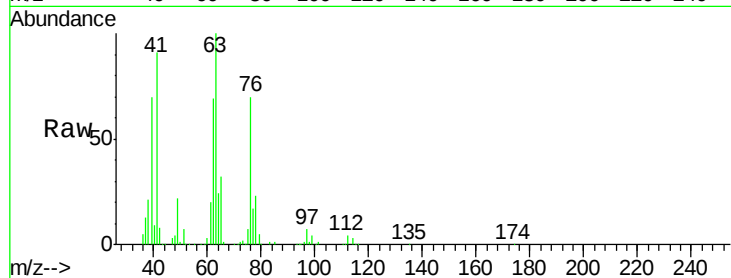
#39
 1,2-Dichloropropane
 Concen: 9.13 ppbv
 RT: 8.81 min Scan# 938
 Delta R.T. 0.00 min
 Lab File: VL026666.D
 Acq: 9 Jan 2016 8:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	91.3	64.1	96.1
62	68.6	56.6	84.8

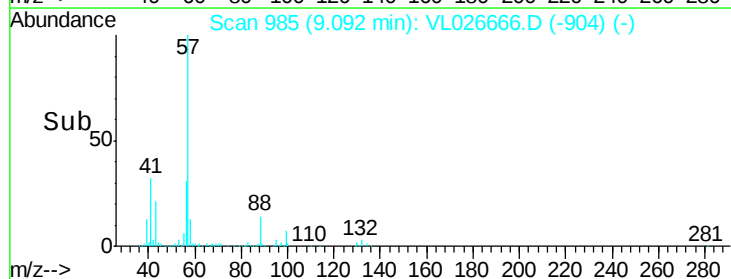
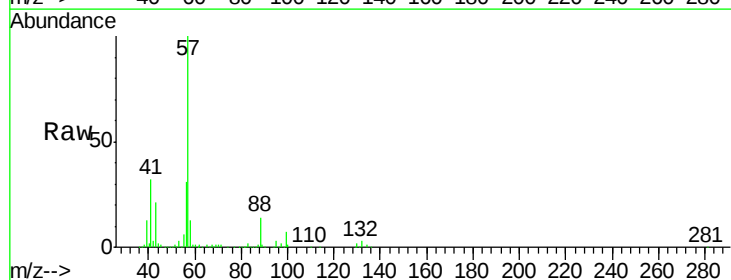
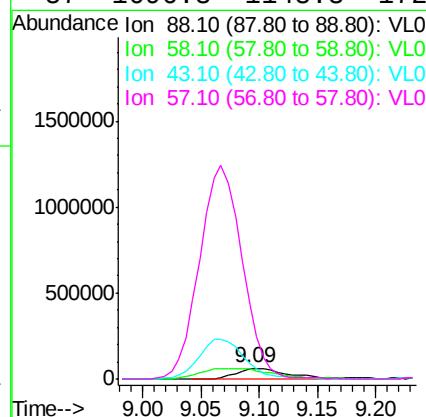
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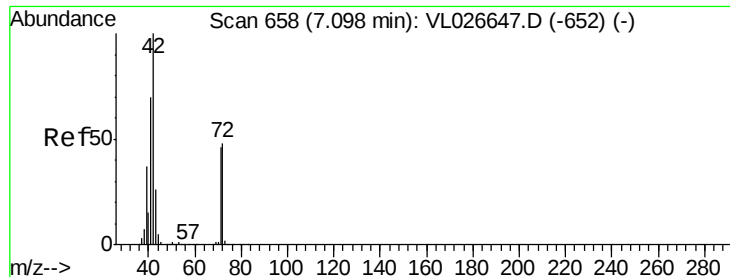
MMdadoda
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#40
 1,4-Dioxane
 Concen: 10.73 ppbv
 RT: 9.09 min Scan# 985
 Delta R.T. -0.01 min
 Lab File: VL026666.D
 Acq: 9 Jan 2016 8:19

Tgt Ion	Ratio	Lower	Upper
88	100		
58	146.3	109.4	164.2
43	343.0	238.2	357.2
57	1696.3	1148.3	1722.5





#41

Tetrahydrofuran

Concen: 9.19 ppbv

RT: 7.10 min Scan# 659

Delta R.T. 0.01 min

Lab File: VL026666.D

Acq: 9 Jan 2016 8:19

Instrument :

MSVOA_L

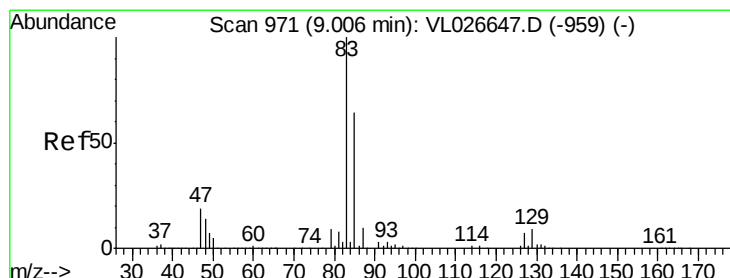
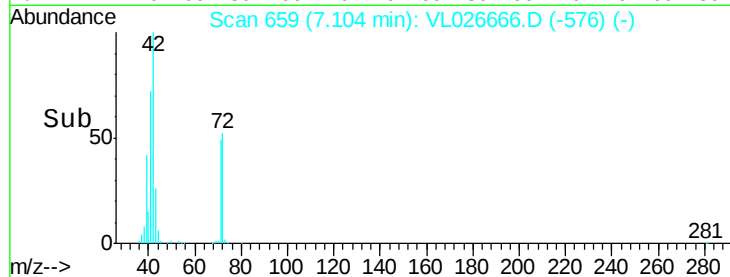
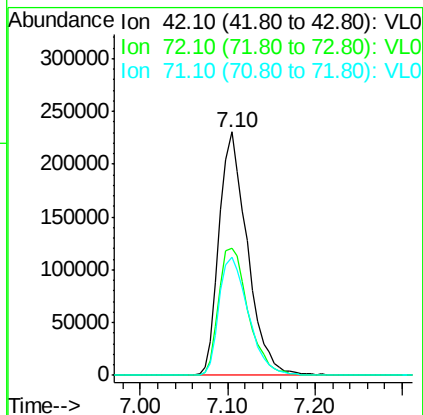
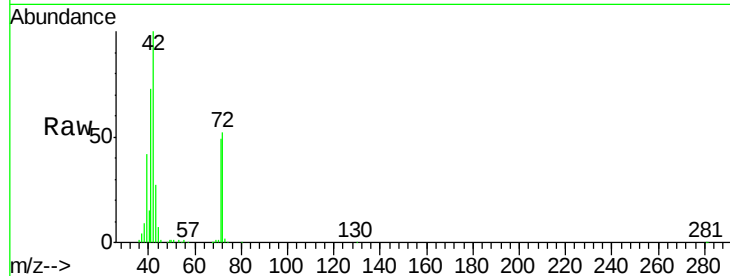
ClientSampleId :

VSTDCCC010EC

Tot Ion:	42	Resp:	518699
Ion	Ratio	Lower	Upper
42	100		
72	55.1	40.6	60.8
71	50.4	38.4	57.6

Manual Integrations
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MMdadoda
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#42

Bromodichloromethane

Concen: 10.75 ppbv

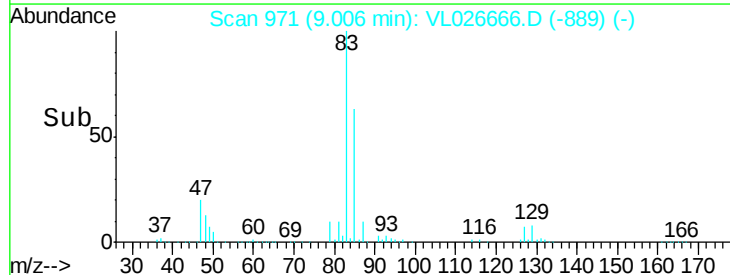
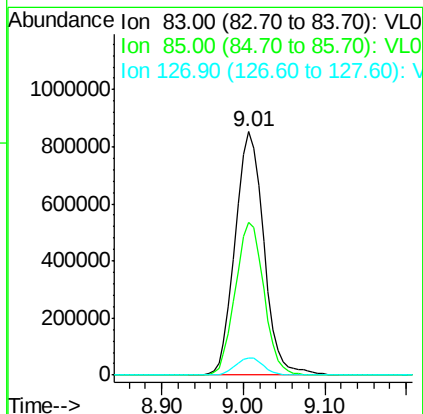
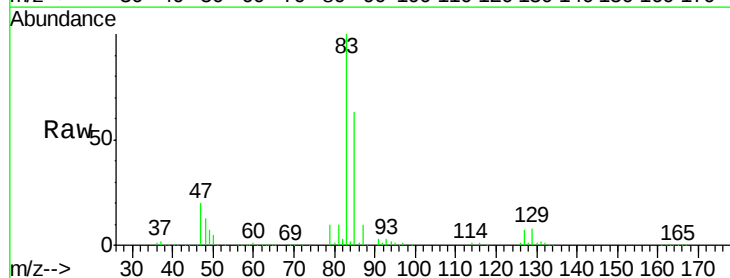
RT: 9.01 min Scan# 971

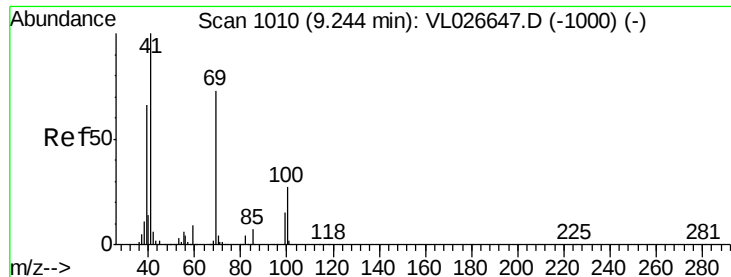
Delta R.T. 0.00 min

Lab File: VL026666.D

Acq: 9 Jan 2016 8:19

Tgt Ion:	83	Resp:	2088557
Ion	Ratio	Lower	Upper
83	100		
85	62.7	50.9	76.3
127	6.9	5.5	8.3





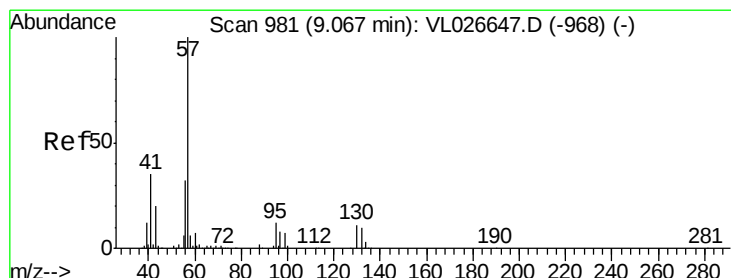
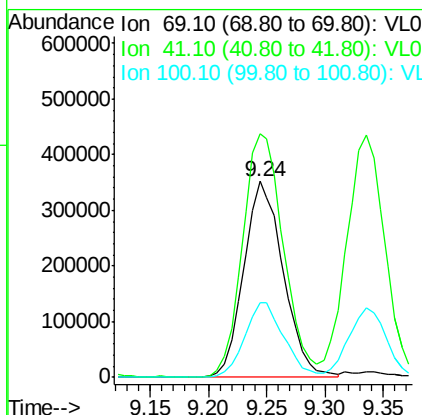
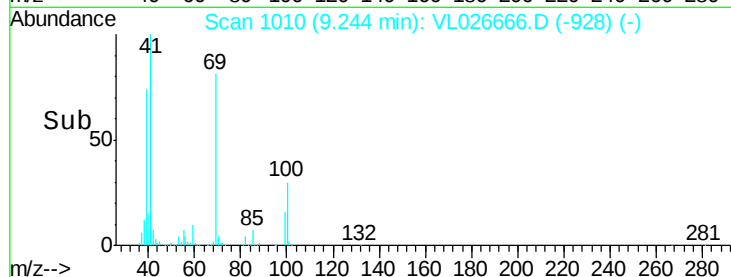
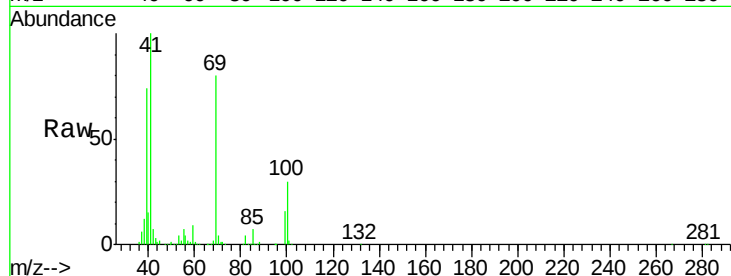
#43
Methvl Methacrilate
Concen: 10.35 ppbv
RT: 9.24 min Scan# 1010
Delta R.T. 0.00 min
Lab File: VL026666.D
Acq: 9 Jan 2016 8:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	128.0	106.1	159.1	
100	37.5	29.0	43.4	

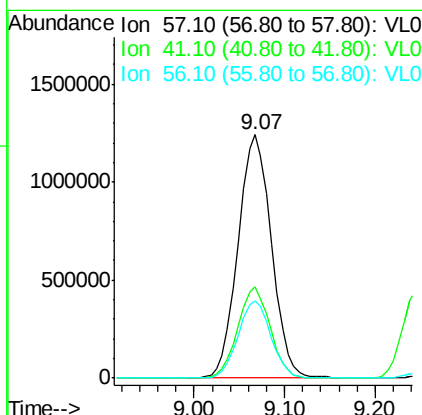
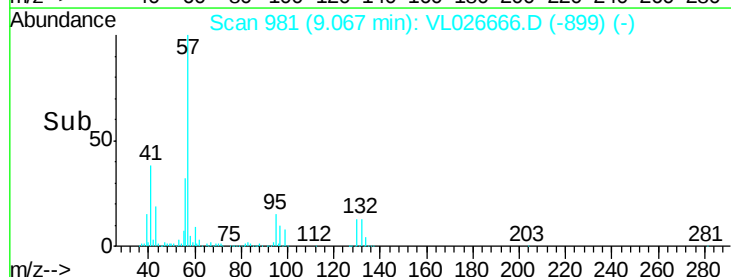
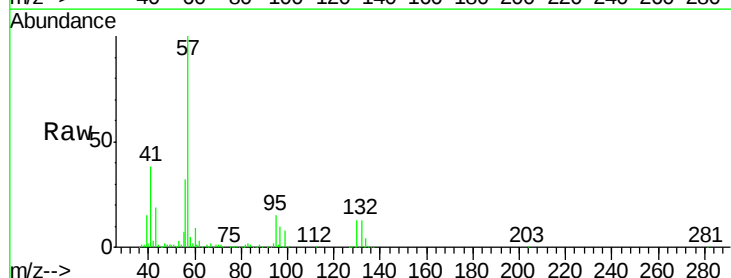
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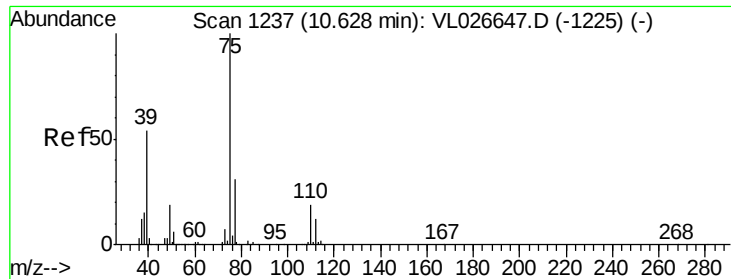
MMdadoda
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#44
2,2,4-Trimethylpentane
Concen: 8.94 ppbv
RT: 9.07 min Scan# 981
Delta R.T. 0.00 min
Lab File: VL026666.D
Acq: 9 Jan 2016 8:19

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	36.4	26.9	40.3	
56	31.1	25.4	38.0	





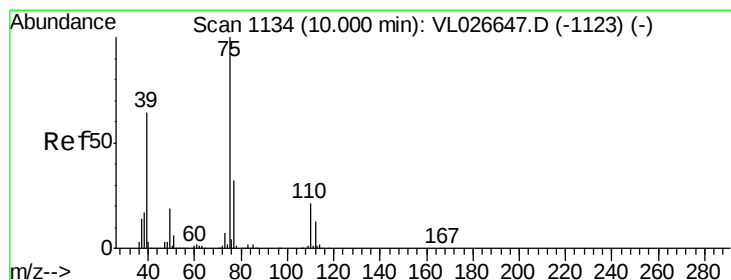
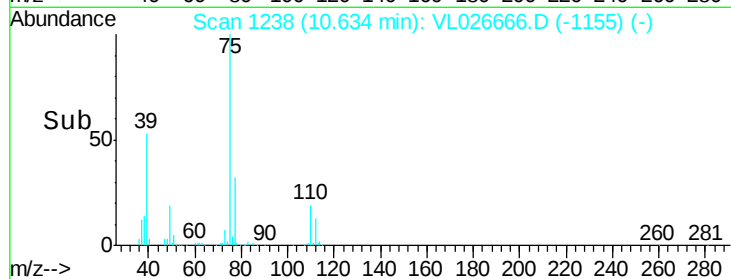
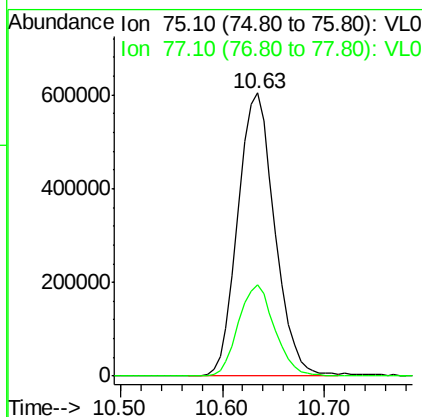
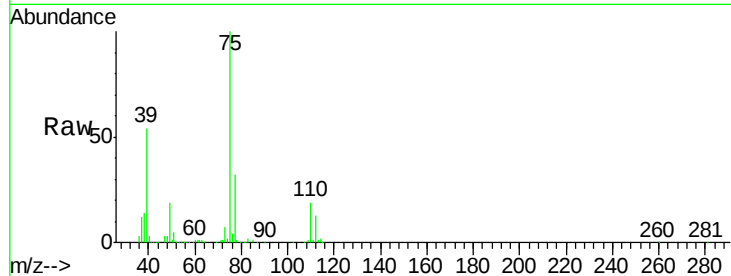
#45
 t-1,3-Dichloropropene
 Concen: 11.67 ppbv
 RT: 10.63 min Scan# 1238
 Delta R.T. 0.01 min
 Lab File: VL026666.D
 Acq: 9 Jan 2016 8:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 75 Resp: 1518808
 Ion Ratio Lower Upper
 75 100
 77 32.4 24.6 37.0

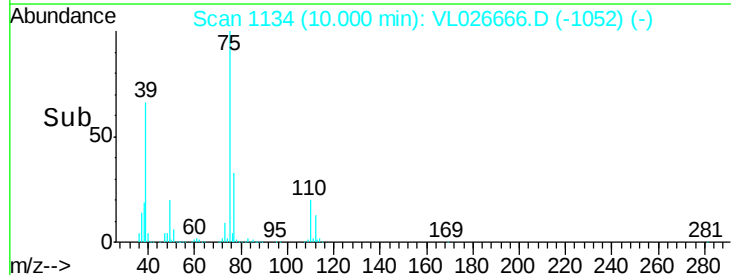
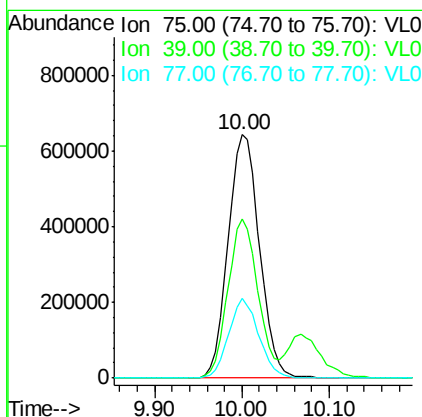
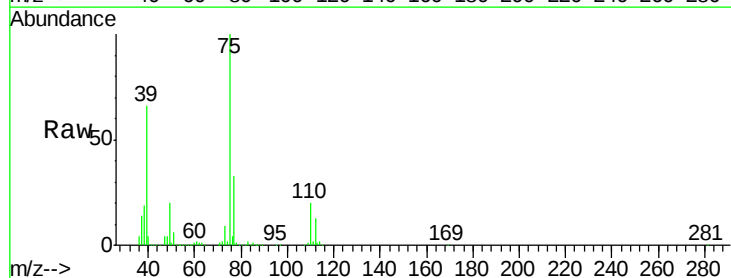
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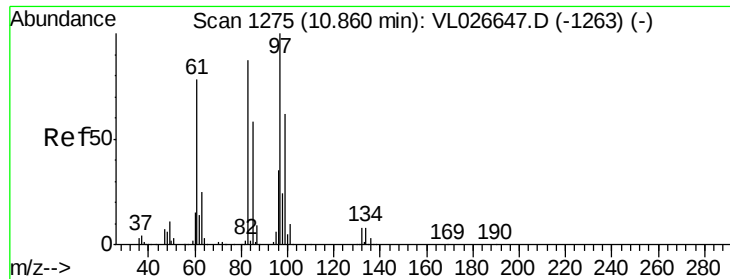
MMdadoda
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#46
 cis-1,3-Dichloropropene
 Concen: 10.86 ppbv
 RT: 10.00 min Scan# 1134
 Delta R.T. 0.00 min
 Lab File: VL026666.D
 Acq: 9 Jan 2016 8:19

Tgt Ion: 75 Resp: 1607290
 Ion Ratio Lower Upper
 75 100
 39 65.5 51.2 76.8
 77 32.5 25.9 38.9





#47
 1,1,2-Trichloroethane
 Concen: 9.94 ppbv
 RT: 10.86 min Scan# 1275
 Delta R.T. 0.00 min
 Lab File: VL026666.D
 Acq: 9 Jan 2016 8:19

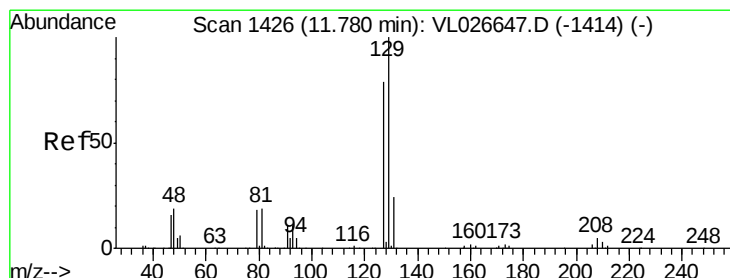
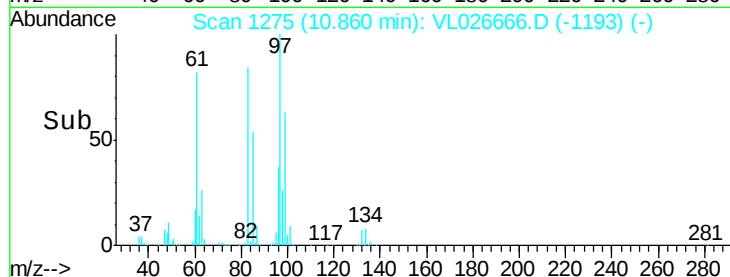
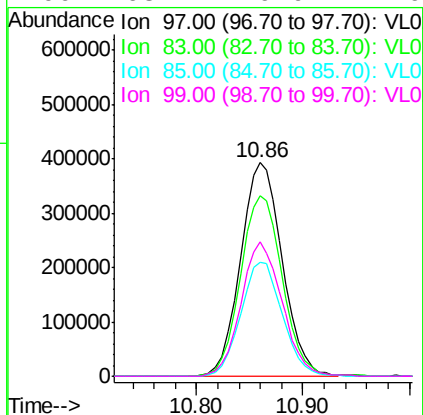
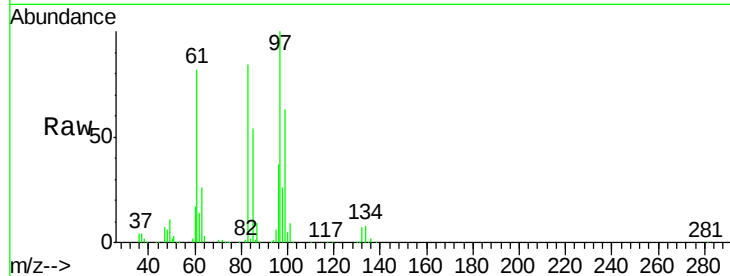
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 97 Resp: 1078069

Ion	Ratio	Lower	Upper
97	100		
83	84.5	69.5	104.3
85	53.5	46.4	69.6
99	63.2	49.9	74.9

Manual Integrations
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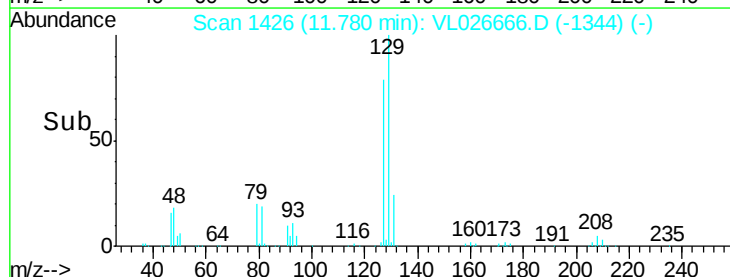
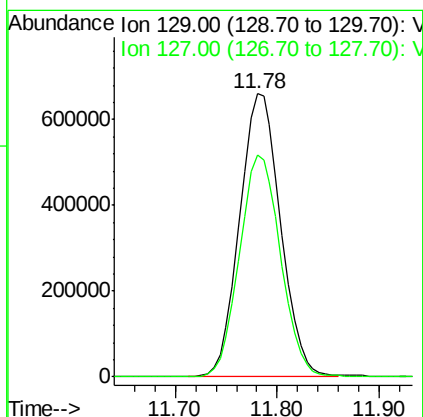
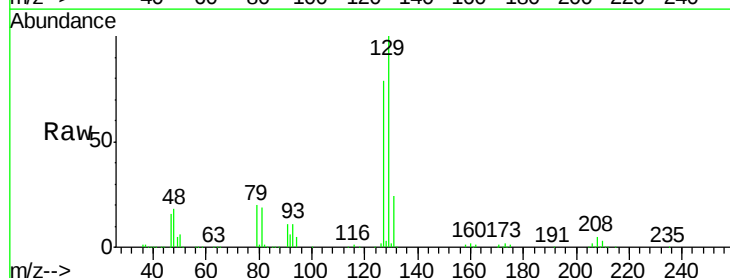
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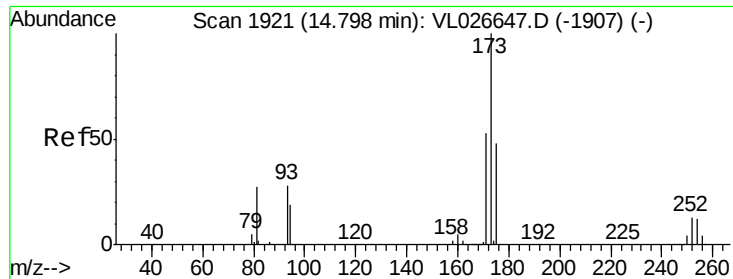


#48
 Dibromochloromethane
 Concen: 11.34 ppbv
 RT: 11.78 min Scan# 1426
 Delta R.T. 0.00 min
 Lab File: VL026666.D
 Acq: 9 Jan 2016 8:19

Tgt Ion: 129 Resp: 1844528

Ion	Ratio	Lower	Upper
129	100		
127	78.7	39.5	118.5





#49

Bromoform

Concen: 11.73 ppbv

RT: 14.79 min Scan# 1920

Delta R.T. -0.01 min

Lab File: VL026666.D

Acq: 9 Jan 2016 8:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:173 Resp: 1557010

Ion Ratio Lower Upper

173 100

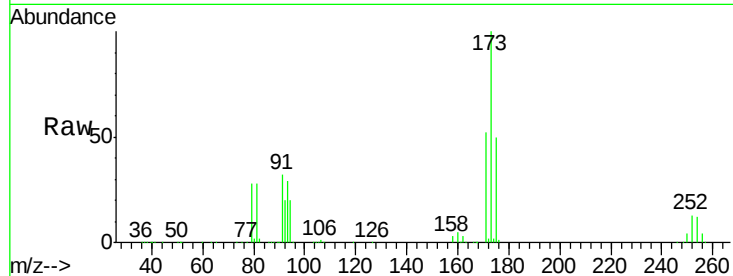
175 48.6 38.6 58.0

171 51.9 41.5 62.3

Manual Integrations
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MMdadoda

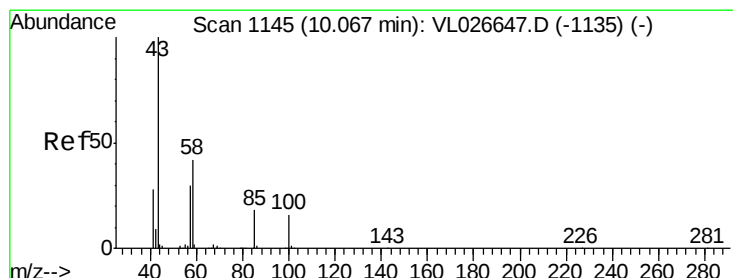
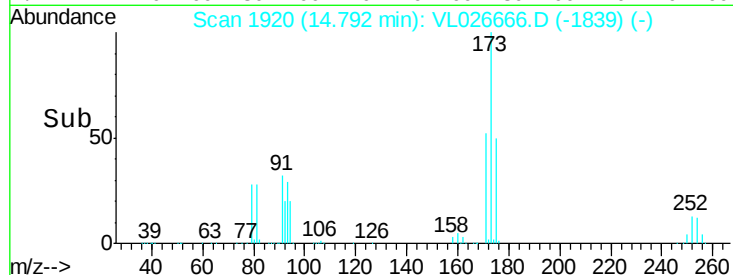
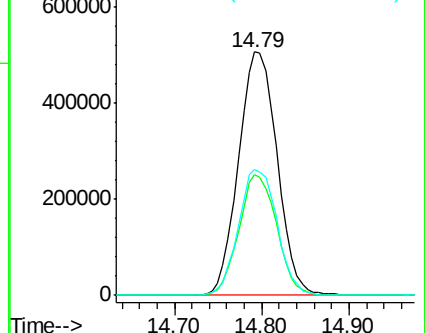
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 9.59 ppbv

RT: 10.07 min Scan# 1145

Delta R.T. 0.00 min

Lab File: VL026666.D

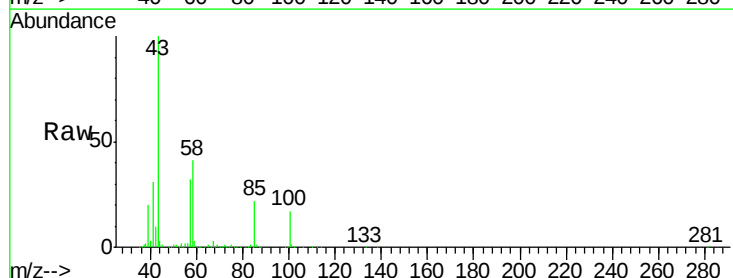
Acq: 9 Jan 2016 8:19

Tgt Ion: 43 Resp: 1536686

Ion Ratio Lower Upper

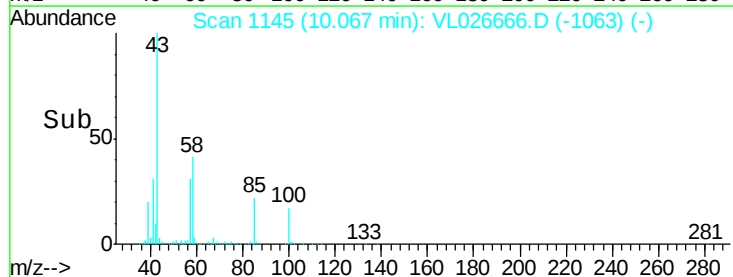
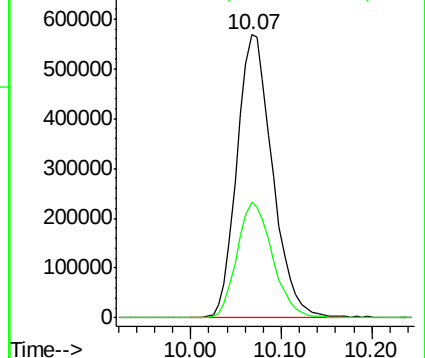
43 100

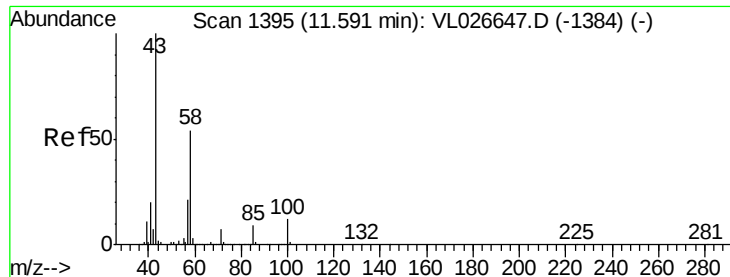
58 41.2 32.4 48.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





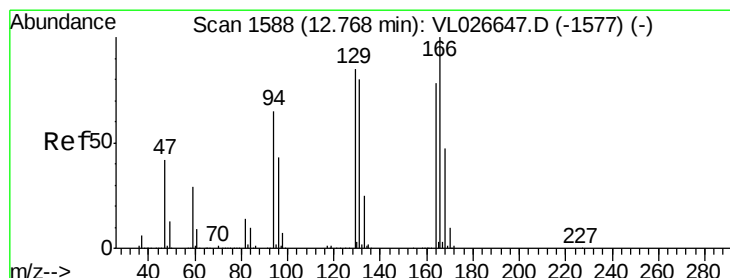
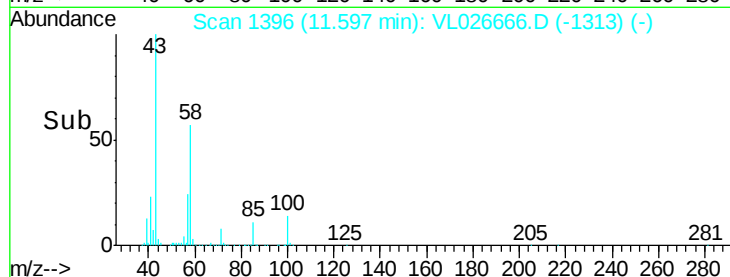
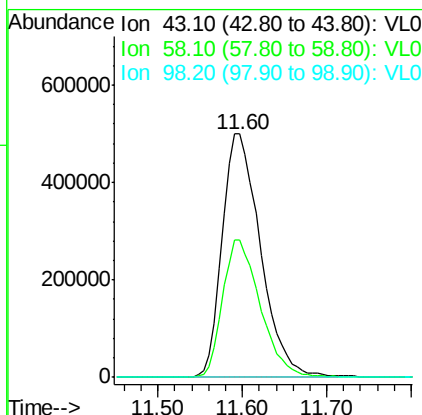
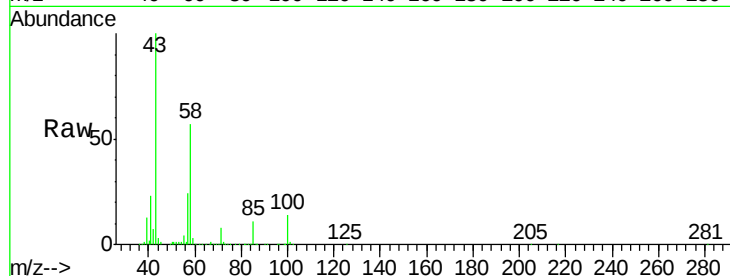
#51
2-Hexanone
Concen: 10.50 ppbv
RT: 11.60 min Scan# 1396
Delta R.T. 0.01 min
Lab File: VL026666.D
Acq: 9 Jan 2016 8:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1550636
Ion Ratio Lower Upper
43 100
58 55.9 44.9 67.3
98 0.5 0.2 0.2#

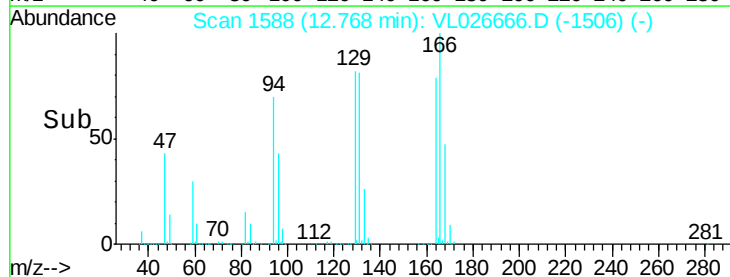
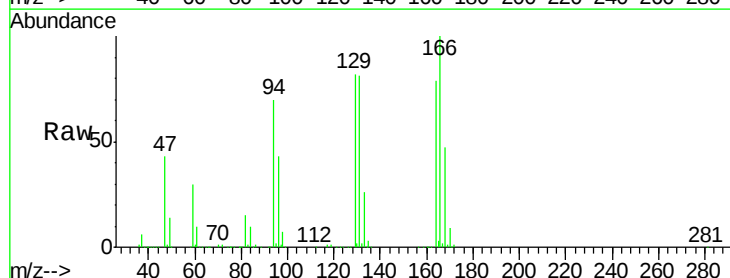
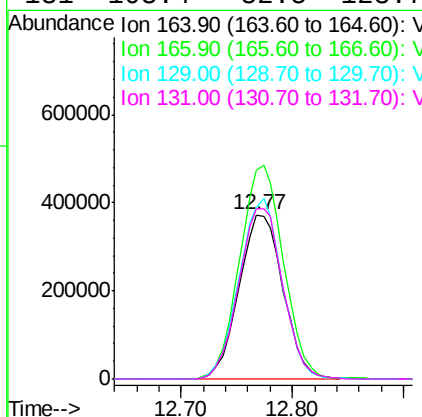
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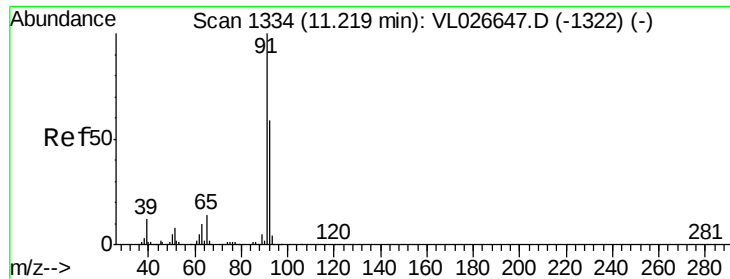
MMdadoda
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#52
Tetrachloroethene
Concen: 9.28 ppbv
RT: 12.77 min Scan# 1588
Delta R.T. 0.00 min
Lab File: VL026666.D
Acq: 9 Jan 2016 8:19

Tgt Ion: 164 Resp: 1020357
Ion Ratio Lower Upper
164 100
166 127.3 102.5 153.7
129 104.1 87.0 130.6
131 103.4 82.5 123.7





#53

Toluene

Concen: 10.30 ppbv

RT: 11.22 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VL026666.D

Acq: 9 Jan 2016 8:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 3195219

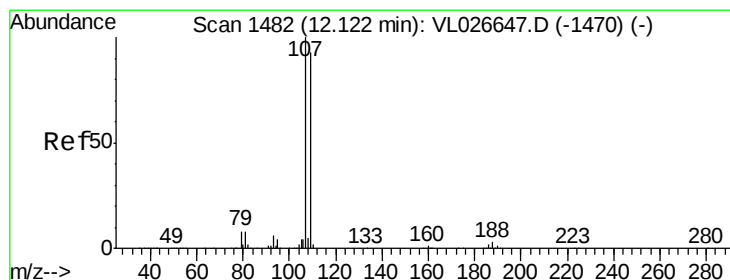
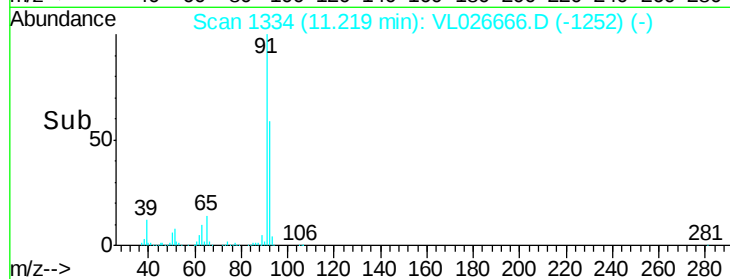
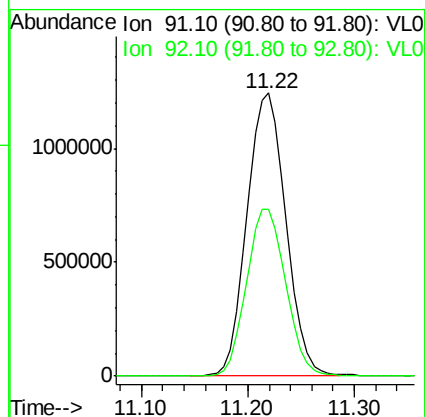
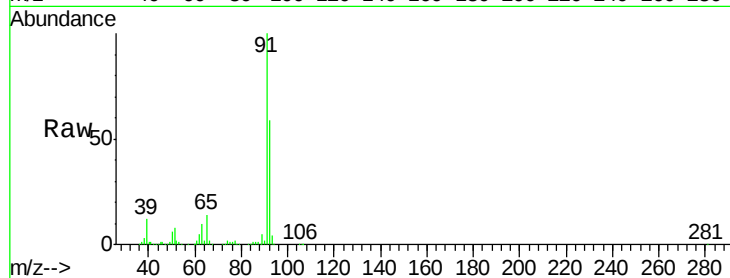
Ion Ratio Lower Upper

91 100

92 59.9 48.2 72.4

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#54

1,2-Dibromoethane

Concen: 10.36 ppbv

RT: 12.12 min Scan# 1482

Delta R.T. 0.00 min

Lab File: VL026666.D

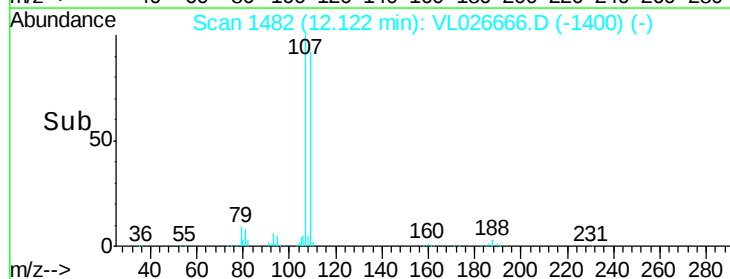
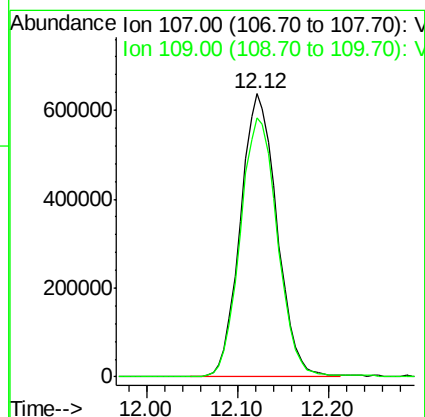
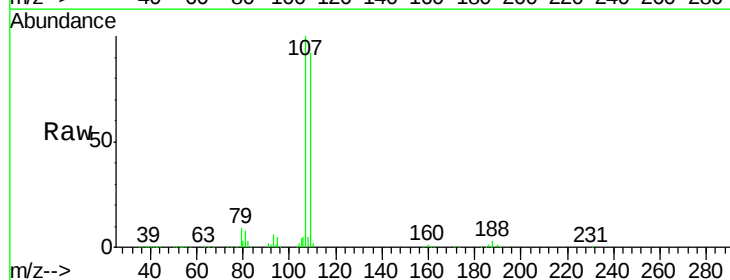
Acq: 9 Jan 2016 8:19

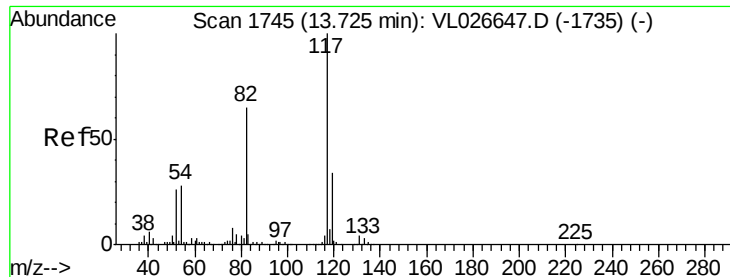
Tgt Ion: 107 Resp: 1777580

Ion Ratio Lower Upper

107 100

109 91.6 74.1 111.1





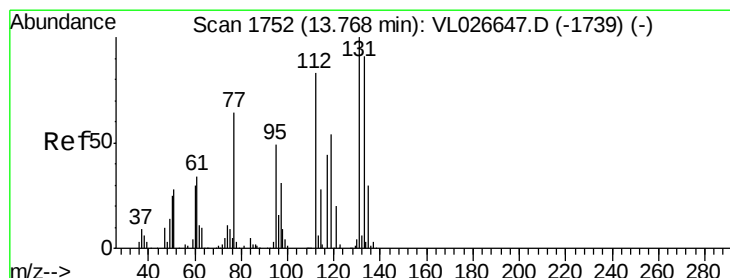
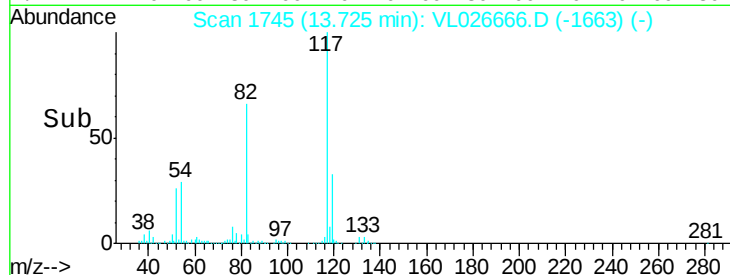
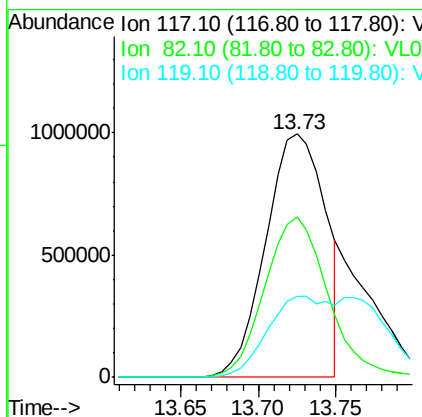
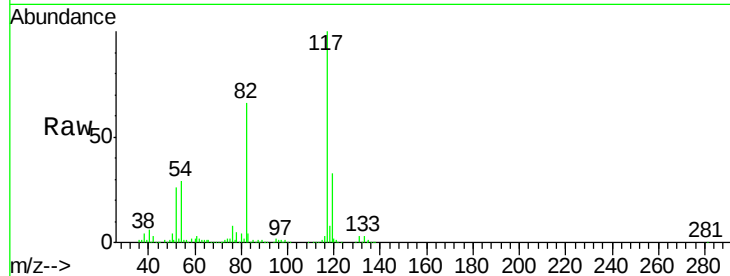
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 13.73 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VL026666.D
Acq: 9 Jan 2016 8:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:117 Resp: 2681599
Ion Ratio Lower Upper
117 100
82 70.1 49.7 74.5
119 62.4 43.8 65.8

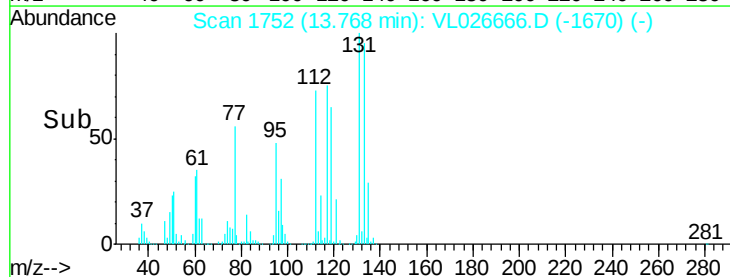
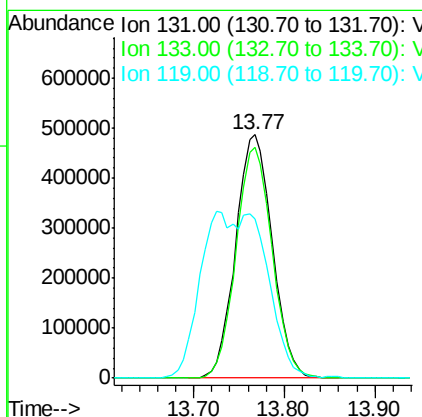
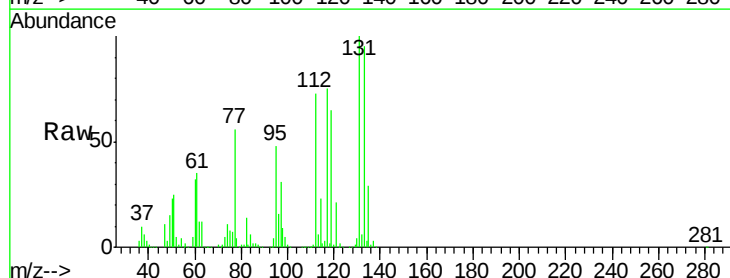
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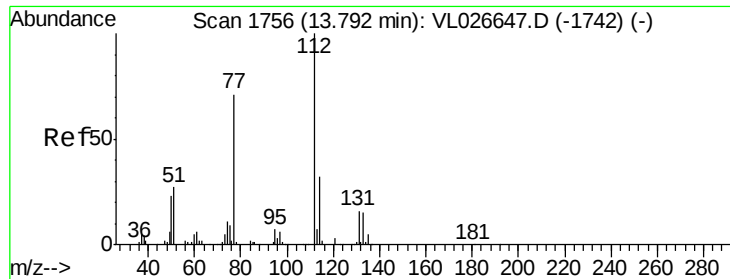
MMdadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 11.03 ppbv
RT: 13.77 min Scan# 1752
Delta R.T. 0.00 min
Lab File: VL026666.D
Acq: 9 Jan 2016 8:19

Tgt Ion:131 Resp: 1361990
Ion Ratio Lower Upper
131 100
133 94.4 76.2 114.4
119 123.4 104.3 156.5





#57

Chlorobenzene

Concen: 10.02 ppbv

RT: 13.79 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VL026666.D

Acq: 9 Jan 2016 8:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:112 Resp: 2767381

Ion Ratio Lower Upper

112 100

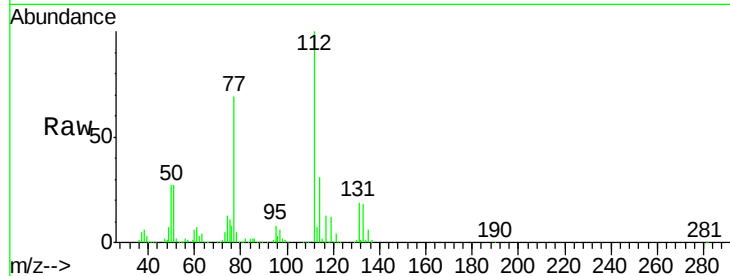
77 69.1 56.9 85.3

114 31.3 28.8 35.2

Manual Integrations
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MMdadoda

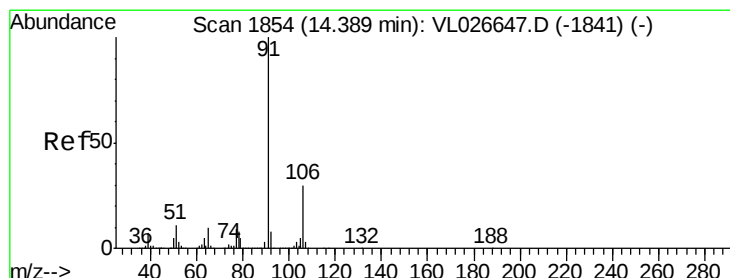
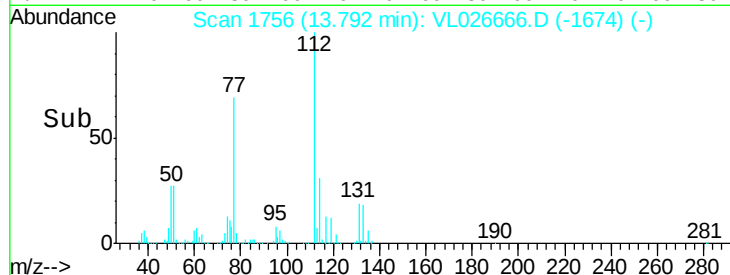
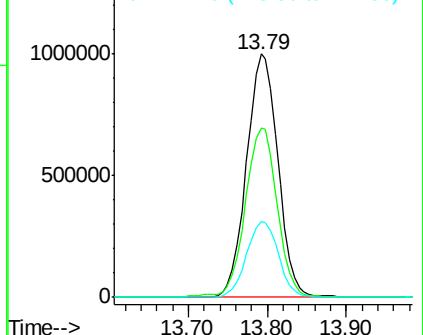
1/14/2016 10:51:24 AM



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: 10.96 ppbv

RT: 14.39 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VL026666.D

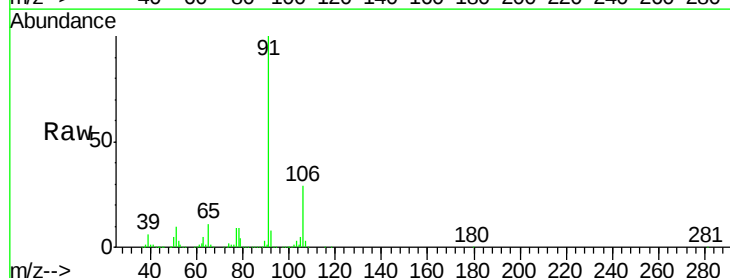
Acq: 9 Jan 2016 8:19

Tgt Ion: 91 Resp: 5248709

Ion Ratio Lower Upper

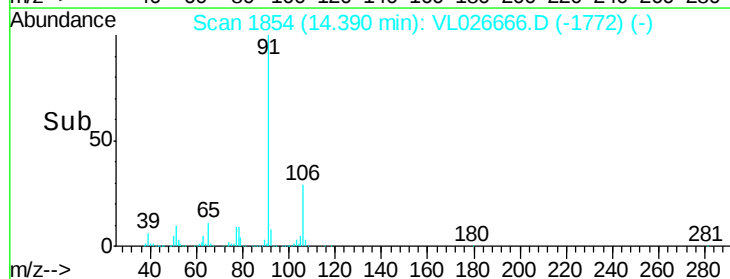
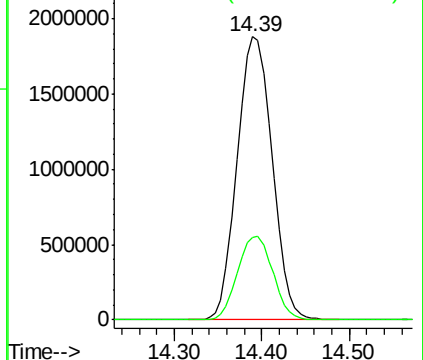
91 100

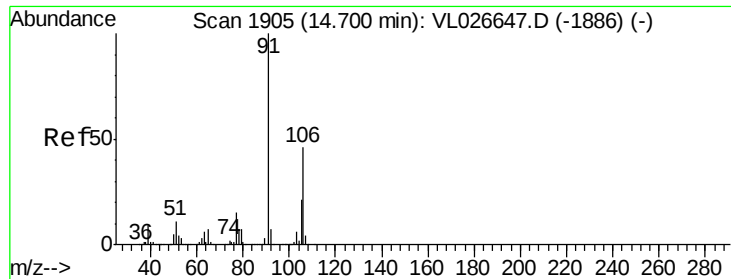
106 29.2 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





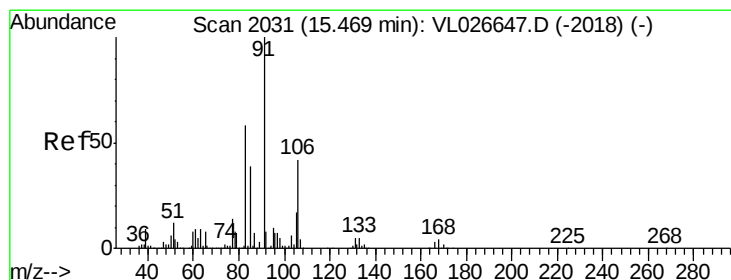
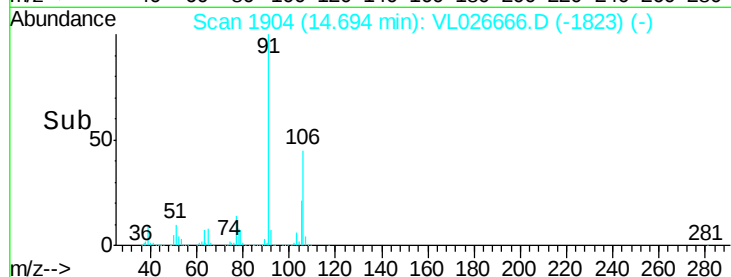
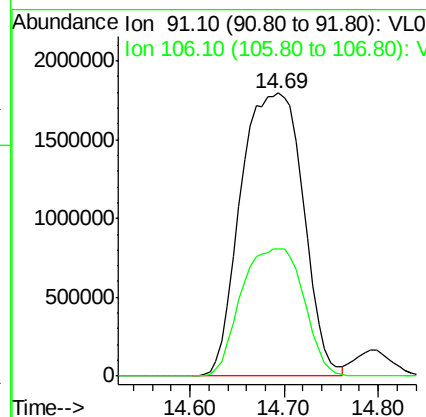
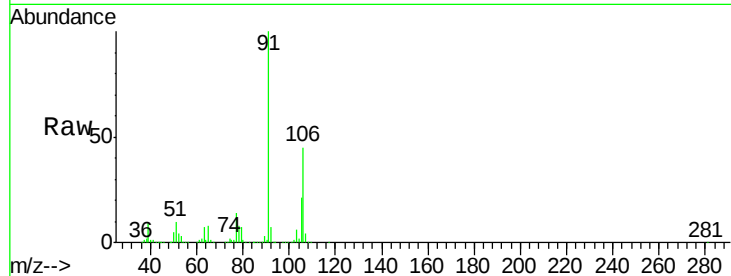
#59
m/p-Xylene
Concen: 20.97 ppbv
RT: 14.69 min Scan# 1904
Delta R.T. -0.01 min
Lab File: VL026666.D
Acq: 9 Jan 2016 8:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 8277355
Ion Ratio Lower Upper
91 100
106 45.3 36.6 55.0

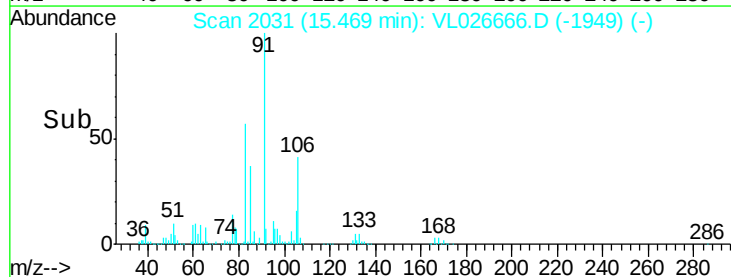
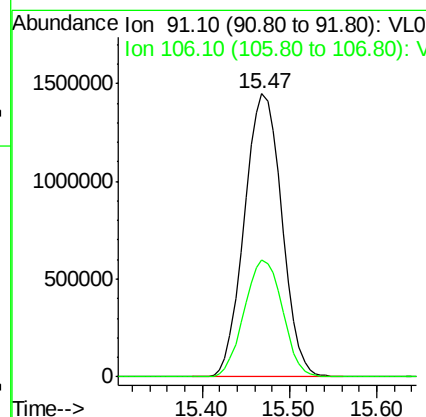
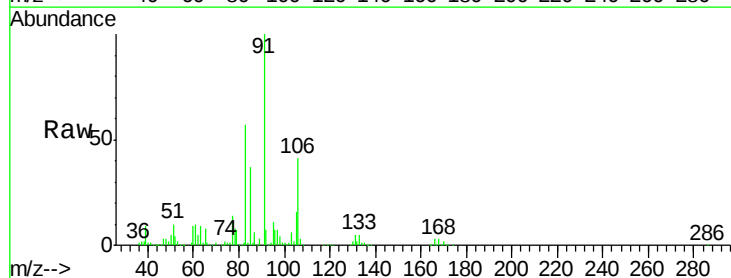
Manual Integrations
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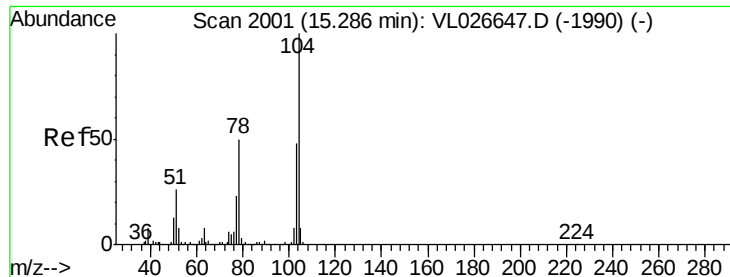
MMdadoda
1/14/2016 10:51:24 AM



#60
o-Xylene
Concen: 10.11 ppbv
RT: 15.47 min Scan# 2031
Delta R.T. 0.00 min
Lab File: VL026666.D
Acq: 9 Jan 2016 8:19

Tgt Ion: 91 Resp: 4314419
Ion Ratio Lower Upper
91 100
106 42.7 21.5 64.5





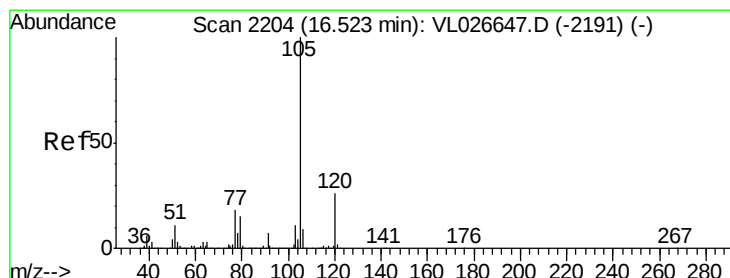
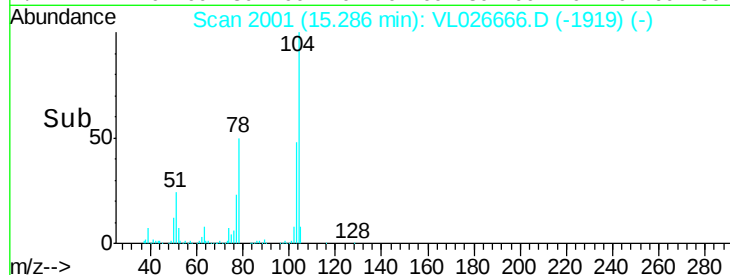
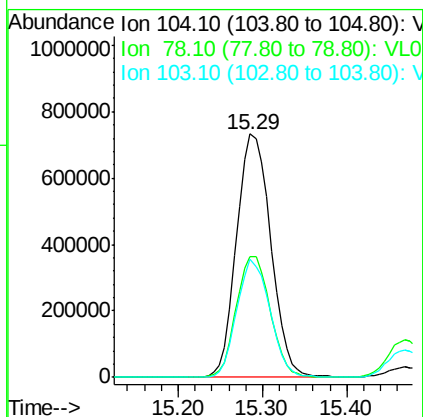
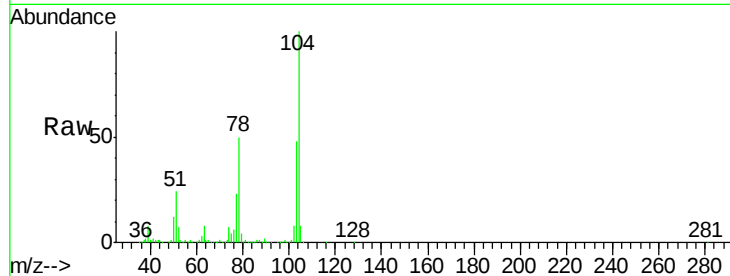
#61
Stvrene
Concen: 12.12 ppbv
RT: 15.29 min Scan# 2001
Delta R.T. 0.00 min
Lab File: VL026666.D
Acq: 9 Jan 2016 8:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	49.4	39.6	59.4
103	47.0	37.8	56.6

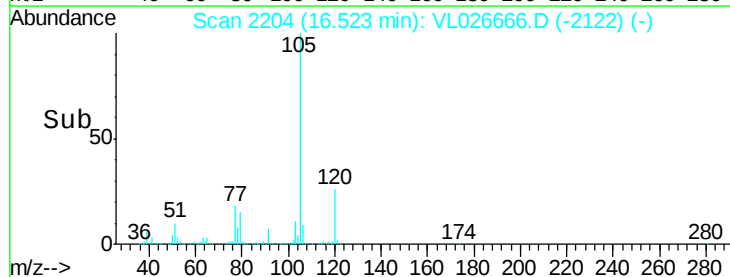
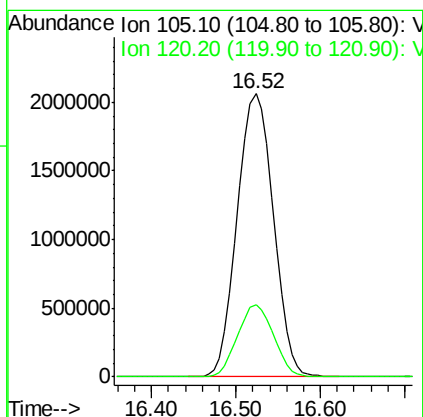
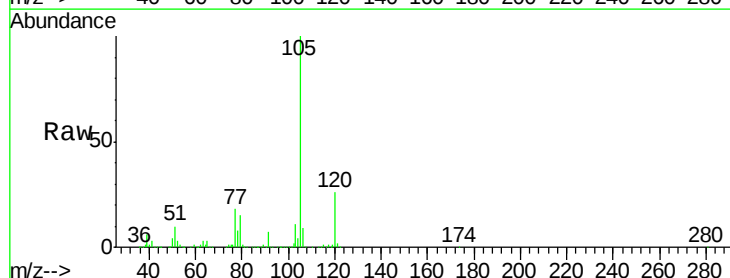
Manual Integrations
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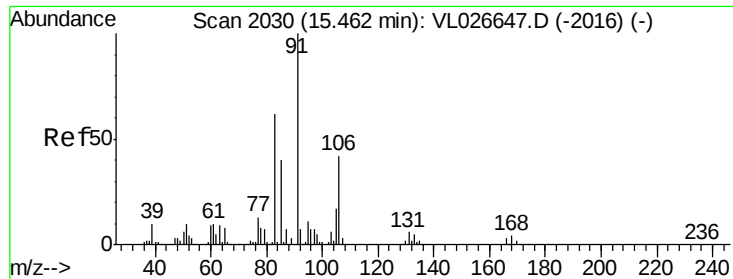
MMdadoda
1/14/2016 10:51:24 AM



#62
Isopropylbenzene
Concen: 10.67 ppbv
RT: 16.52 min Scan# 2204
Delta R.T. 0.00 min
Lab File: VL026666.D
Acq: 9 Jan 2016 8:19

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.3	20.3	30.5





#63

1,1,2,2-Tetrachloroethane

Concen: 8.49 ppbv

RT: 15.46 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VL026666.D

Acq: 9 Jan 2016 8:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 2700935

Ion Ratio Lower Upper

83 100

131 9.0 4.5 13.4

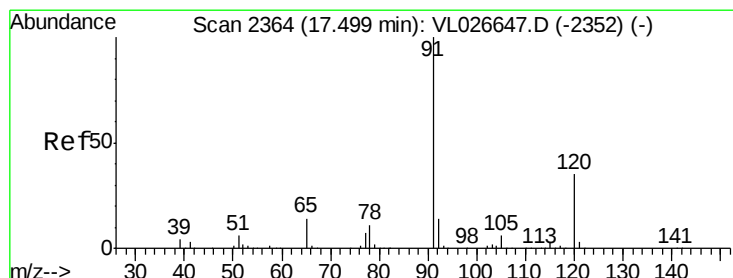
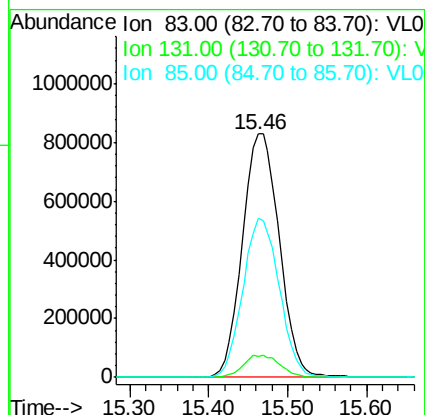
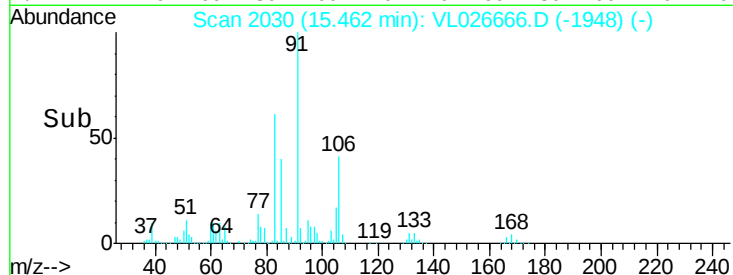
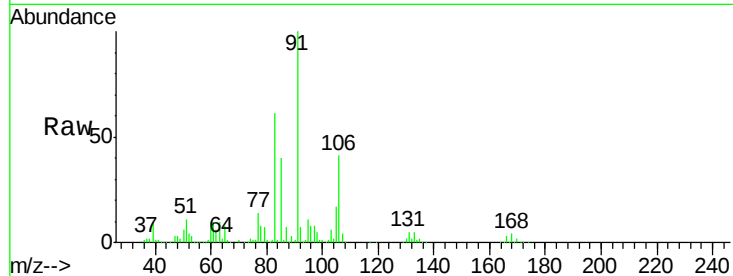
85 64.8 32.6 97.7

Manual Integrations

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#64

n-propylbenzene

Concen: 10.67 ppbv

RT: 17.50 min Scan# 2364

Delta R.T. 0.00 min

Lab File: VL026666.D

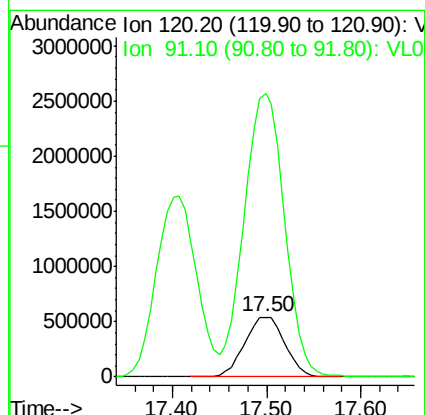
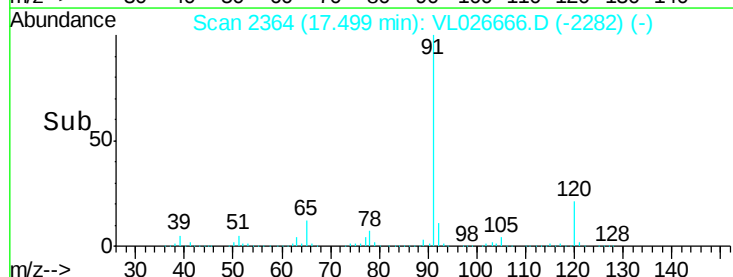
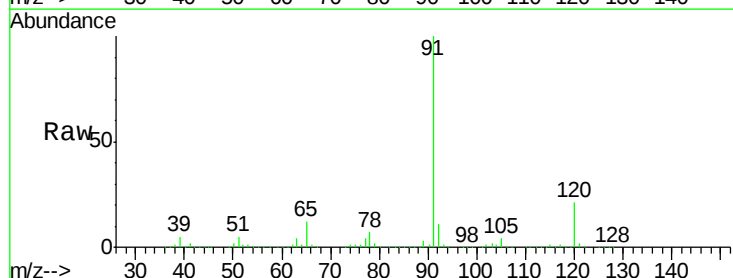
Acq: 9 Jan 2016 8:19

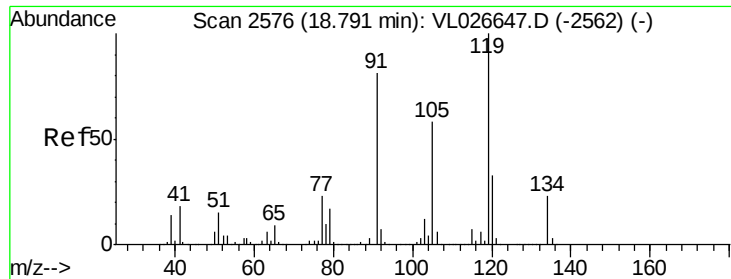
Tgt Ion:120 Resp: 1616794

Ion Ratio Lower Upper

120 100

91 469.7 375.8 563.6





#65

tert-Butylbenzene

Concen: 9.91 ppbv

RT: 18.78 min Scan# 2575

Delta R.T. -0.01 min

Lab File: VL026666.D

Acq: 9 Jan 2016 8:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 5130890

Ion Ratio Lower Upper

119 100

91 81.5 64.8 97.2

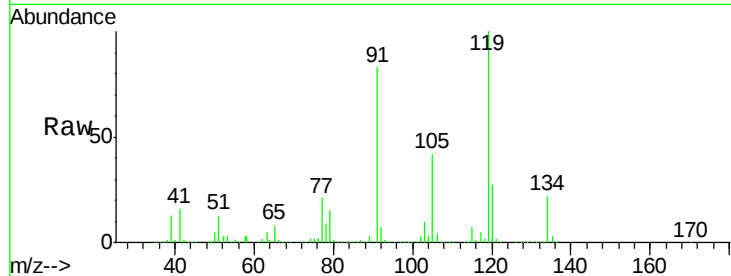
134 21.7 17.4 26.0

Manual Integrations

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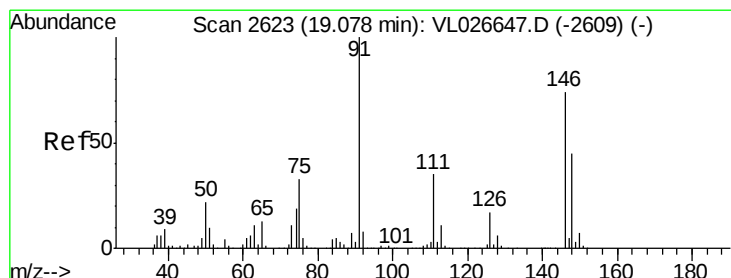
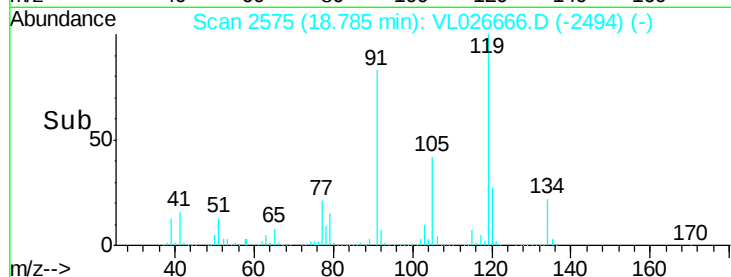
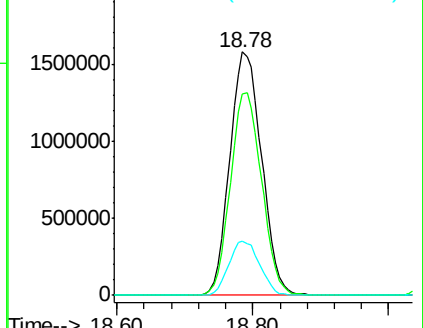
1/14/2016 10:51:24 AM



Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 12.59 ppbv

RT: 19.08 min Scan# 2623

Delta R.T. 0.00 min

Lab File: VL026666.D

Acq: 9 Jan 2016 8:19

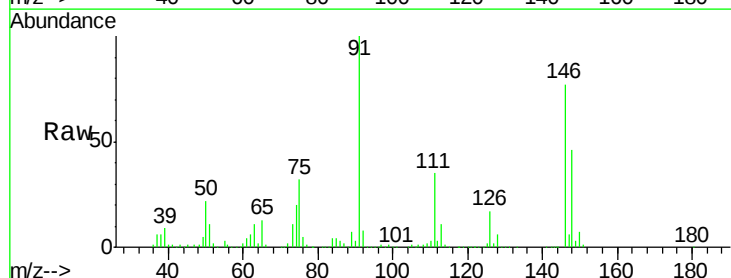
Tgt Ion: 91 Resp: 2327903

Ion Ratio Lower Upper

91 100

126 17.8 14.2 21.2

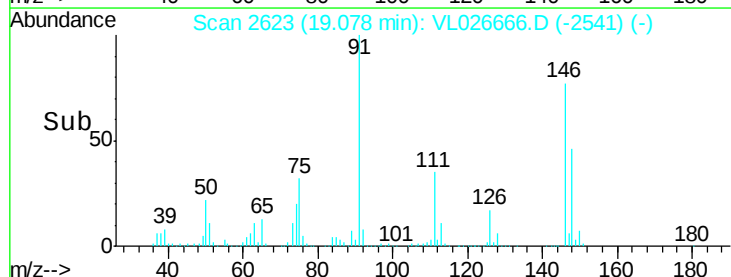
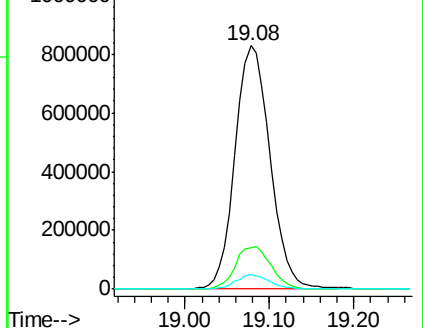
128 5.8 4.5 6.7

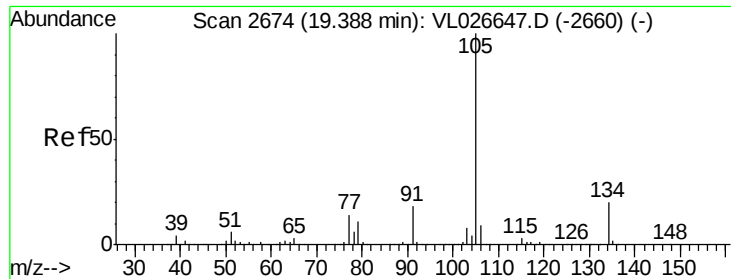


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





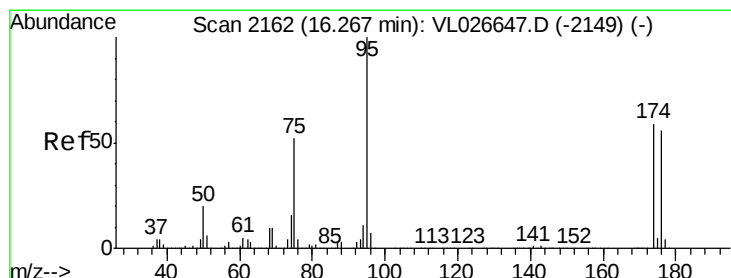
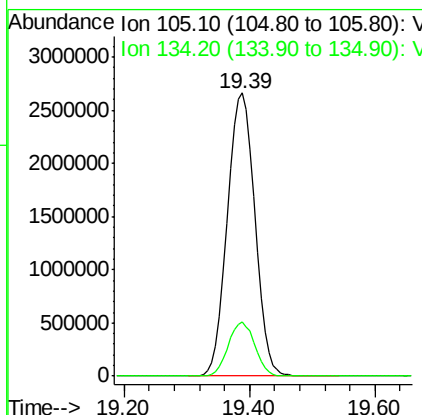
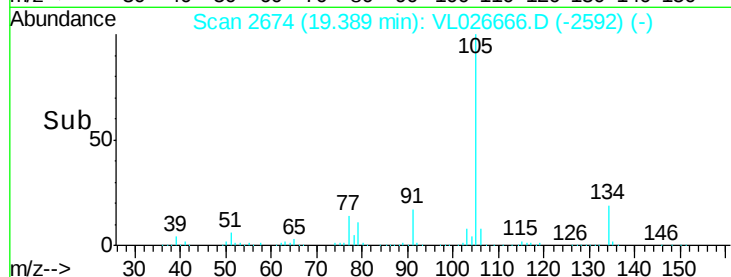
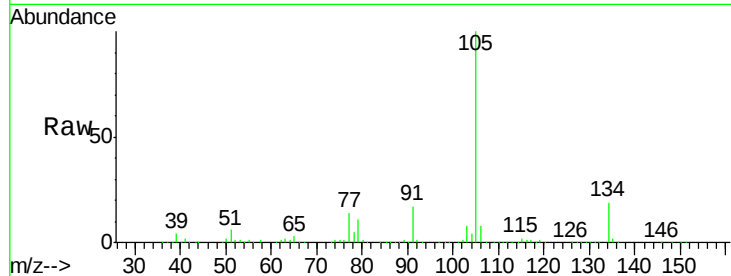
#67
 sec-Butylbenzene
 Concen: 10.56 ppbv
 RT: 19.39 min Scan# 2674
 Delta R.T. 0.00 min
 Lab File: VL026666.D
 Acq: 9 Jan 2016 8:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 105 Resp: 8107201
 Ion Ratio Lower Upper
 105 100
 134 18.7 14.9 22.3

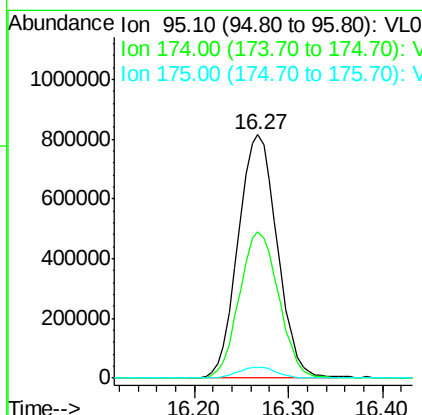
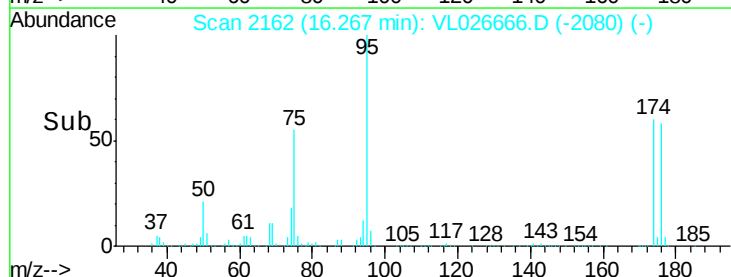
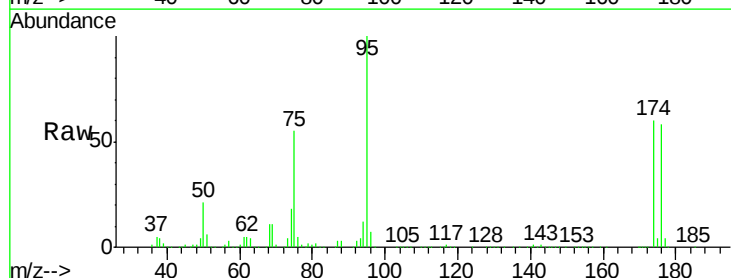
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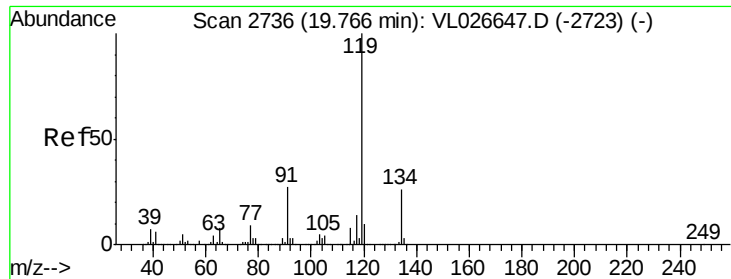
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 11.08 ppbv
 RT: 16.27 min Scan# 2162
 Delta R.T. 0.00 min
 Lab File: VL026666.D
 Acq: 9 Jan 2016 8:19

Tgt Ion: 95 Resp: 2369185
 Ion Ratio Lower Upper
 95 100
 174 60.8 47.8 71.8
 175 4.4 3.6 5.4





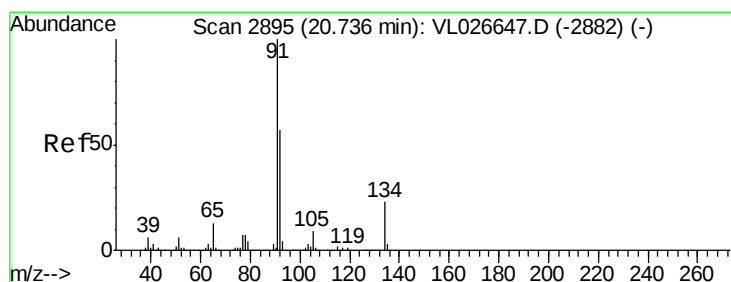
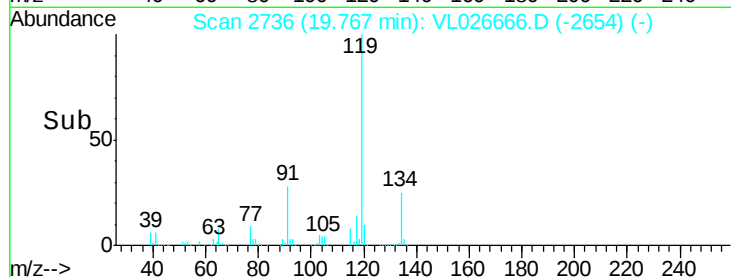
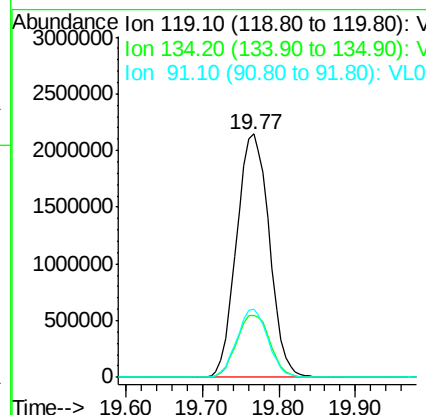
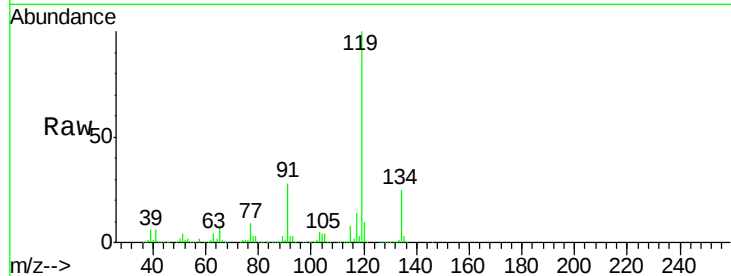
#69
 p-Isopropyltoluene
 Concen: 10.83 ppbv
 RT: 19.77 min Scan# 2736
 Delta R.T. 0.00 min
 Lab File: VL026666.D
 Acq: 9 Jan 2016 8:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	26.1	20.6	31.0
91	26.7	21.7	32.5

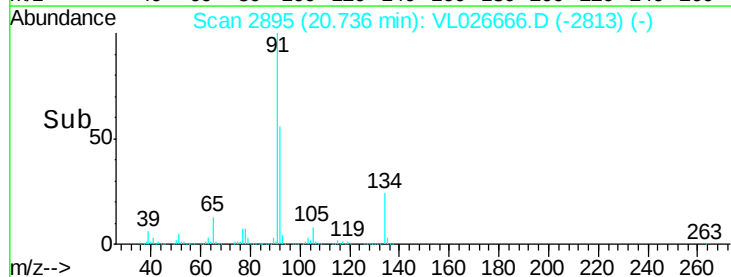
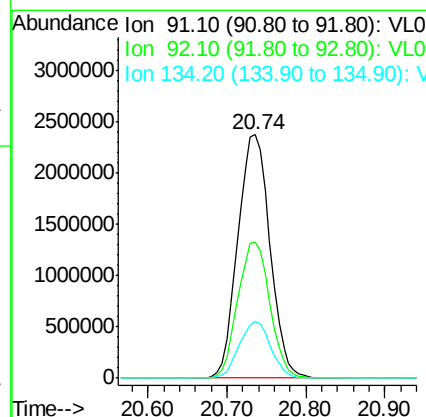
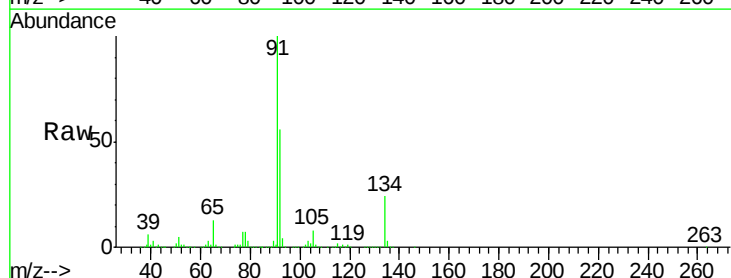
Manual Integrations
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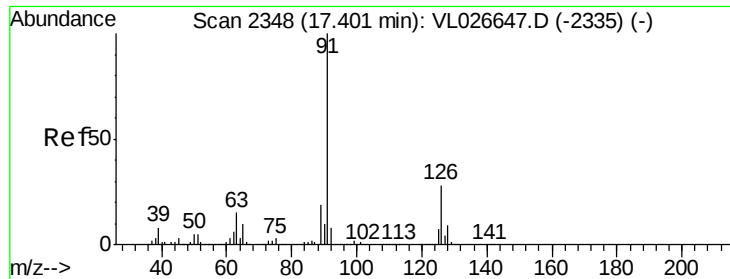
MMdadoda
 1/14/2016 10:51:24 AM



#70
 n-Butylbenzene
 Concen: 11.03 ppbv
 RT: 20.74 min Scan# 2895
 Delta R.T. 0.00 min
 Lab File: VL026666.D
 Acq: 9 Jan 2016 8:19

Tgt Ion	Ratio	Lower	Upper
91	100		
92	55.7	45.0	67.4
134	22.9	18.2	27.2





#71

2-Chlorotoluene

Concen: 11.13 ppbv

RT: 17.41 min Scan# 2349

Delta R.T. 0.01 min

Lab File: VL026666.D

Acq: 9 Jan 2016 8:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 4896635

Ion Ratio Lower Upper

91 100

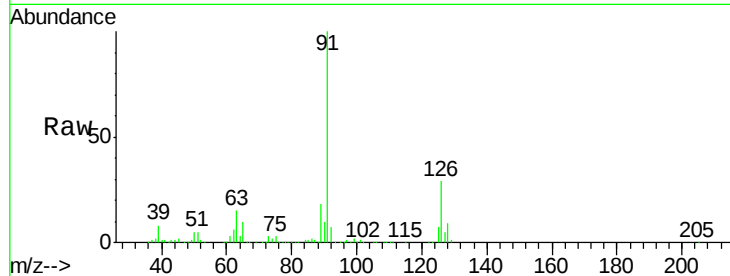
126 29.1 11.4 45.8

Manual Integrations

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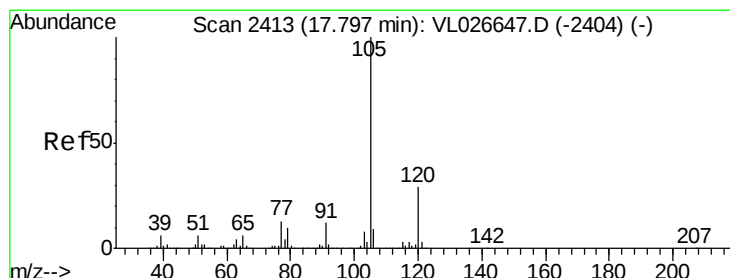
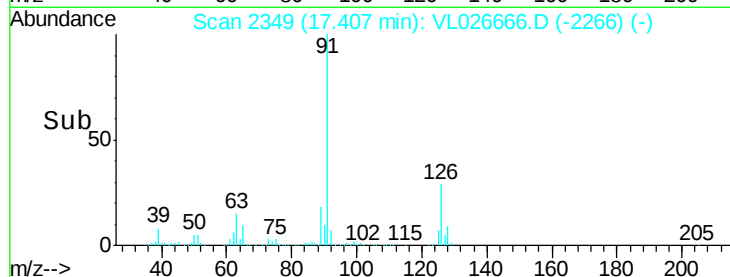
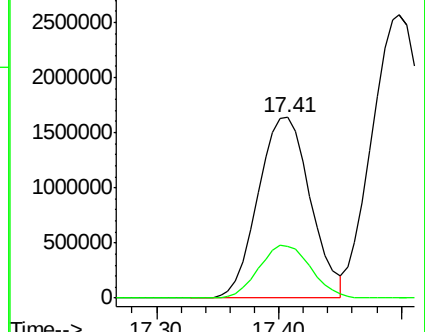
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 11.22 ppbv

RT: 17.80 min Scan# 2413

Delta R.T. 0.00 min

Lab File: VL026666.D

Acq: 9 Jan 2016 8:19

Tgt Ion:105 Resp: 5351282

Ion Ratio Lower Upper

105 100

120 29.3 23.7 35.5

91 12.3 9.7 14.5

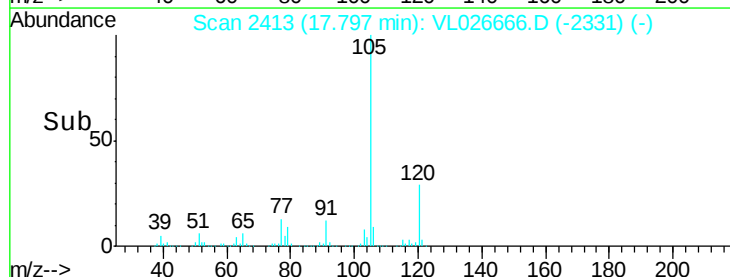
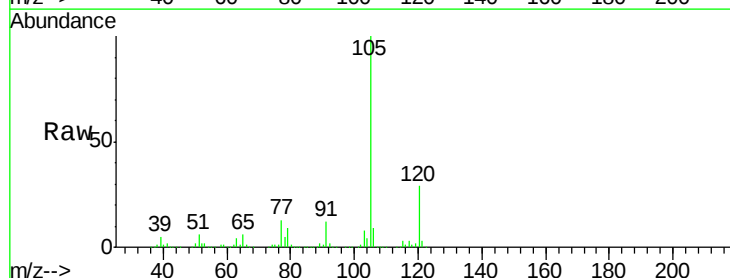
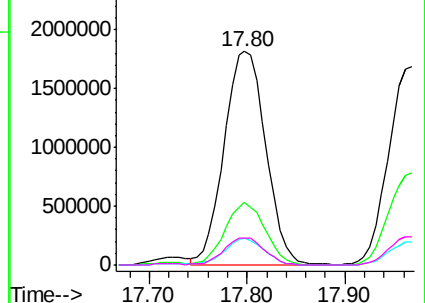
77 12.7 10.3 15.5

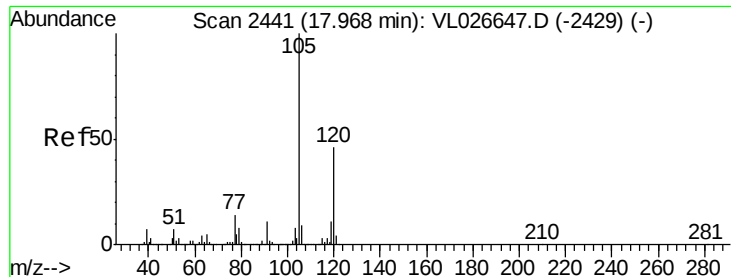
Abundance Ion 105.10 (104.80 to 105.80): V

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





#73

1,3,5-Trimethylbenzene

Concen: 10.94 ppbv

RT: 17.97 min Scan# 2441

Delta R.T. 0.00 min

Lab File: VL026666.D

Acq: 9 Jan 2016 8:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 4948078

Ion Ratio Lower Upper

105 100

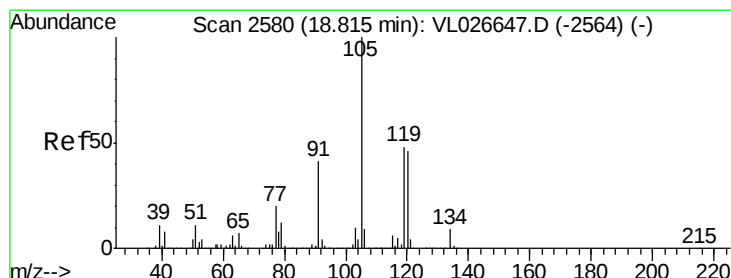
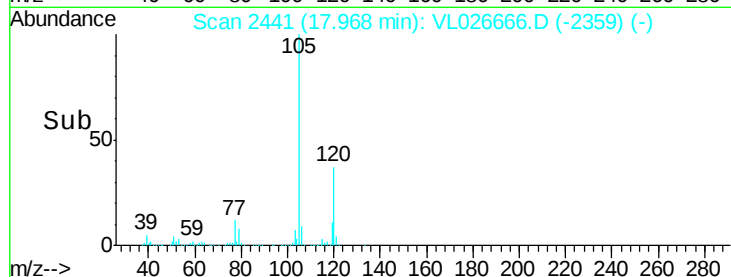
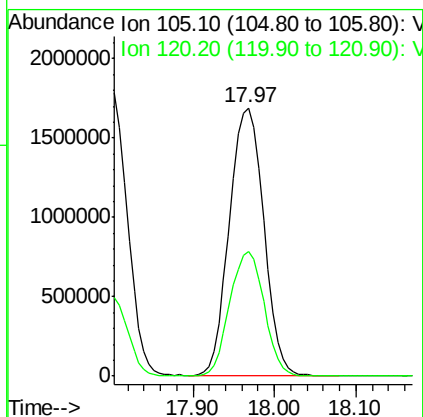
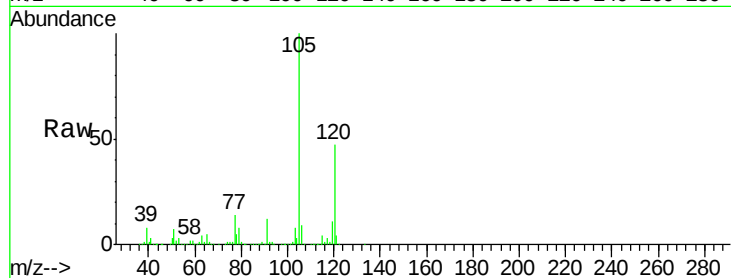
120 46.5 36.6 54.8

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#74

1,2,4-Trimethylbenzene

Concen: 9.98 ppbv

RT: 18.82 min Scan# 2580

Delta R.T. 0.00 min

Lab File: VL026666.D

Acq: 9 Jan 2016 8:19

Tgt Ion:105 Resp: 4791857

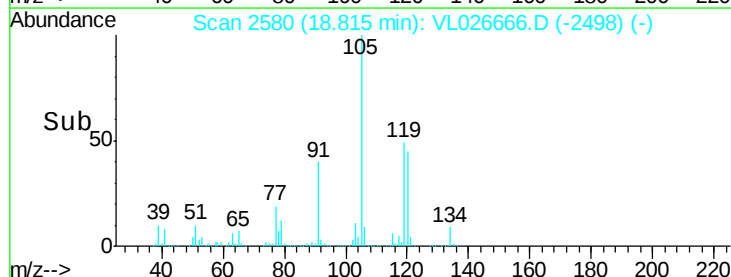
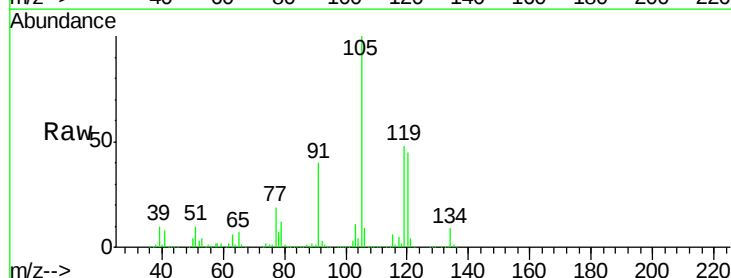
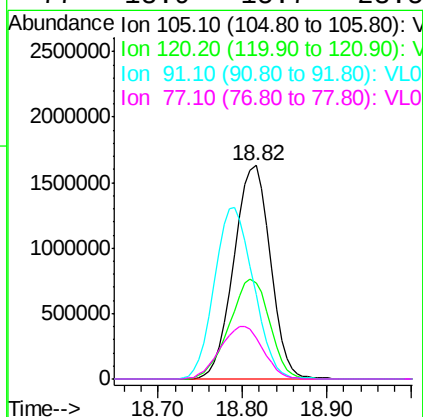
Ion Ratio Lower Upper

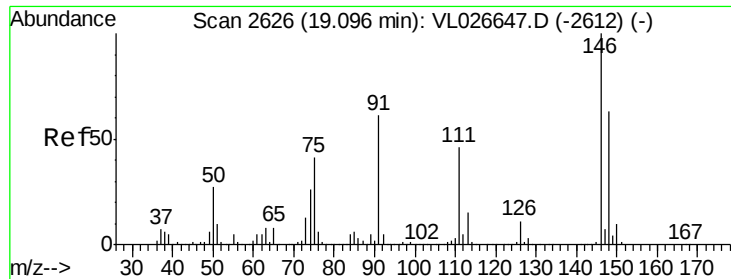
105 100

120 45.0 36.6 55.0

91 39.5 32.5 48.7

77 18.9 15.7 23.5





#75

1,3-Dichlorobenzene

Concen: 10.37 ppbv

RT: 19.10 min Scan# 2627

Delta R.T. 0.01 min

Lab File: VL026666.D

Acq: 9 Jan 2016 8:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 3074076

Ion Ratio Lower Upper

146 100

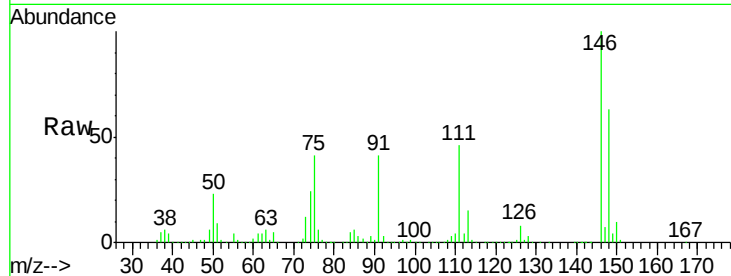
111 45.9 22.9 68.5

148 62.8 31.6 95.0

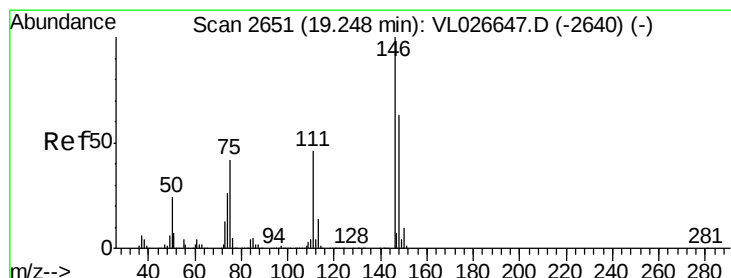
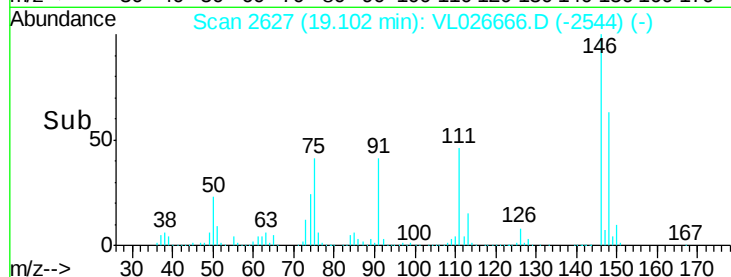
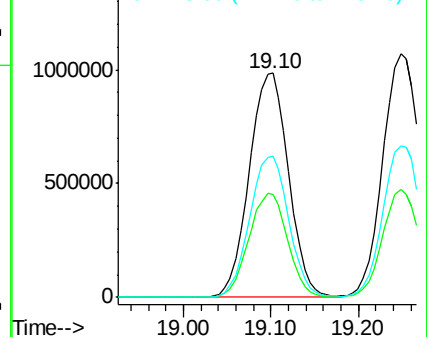
Manual Integrations
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 10.48 ppbv

RT: 19.25 min Scan# 2651

Delta R.T. 0.00 min

Lab File: VL026666.D

Acq: 9 Jan 2016 8:19

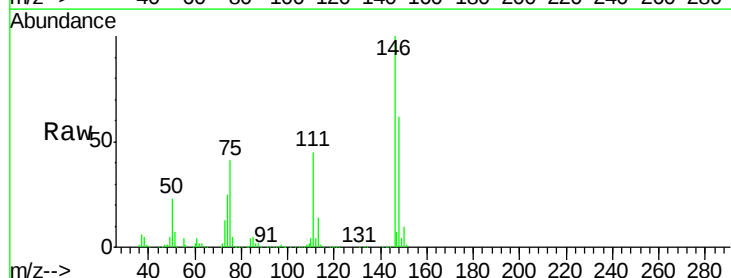
Tgt Ion:146 Resp: 3189357

Ion Ratio Lower Upper

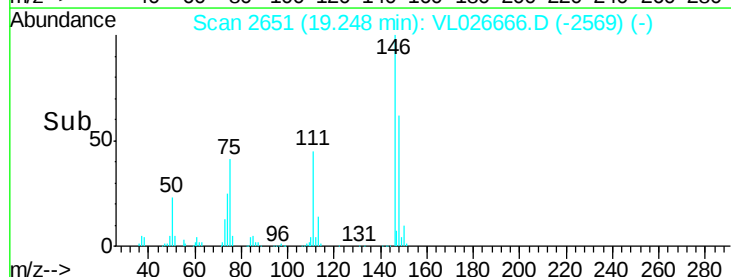
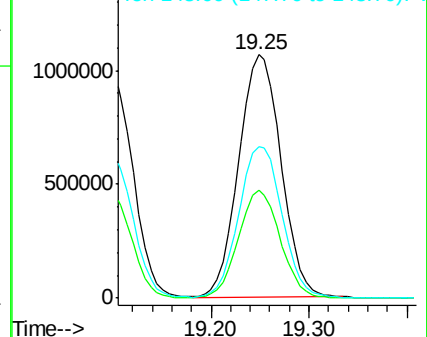
146 100

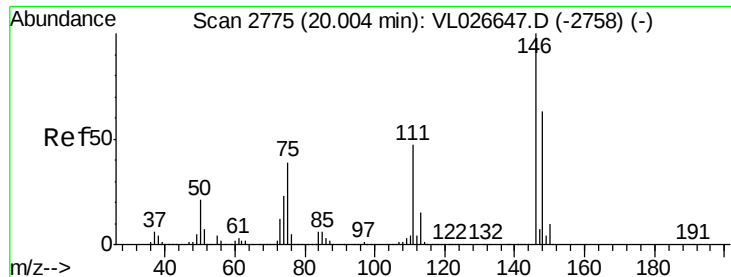
111 44.6 22.3 66.8

148 64.4 31.9 95.9



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: 10.68 ppbv

RT: 20.00 min Scan# 2774

Delta R.T. -0.01 min

Lab File: VL026666.D

Acq: 9 Jan 2016 8:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 3214836

Ion Ratio Lower Upper

146 100

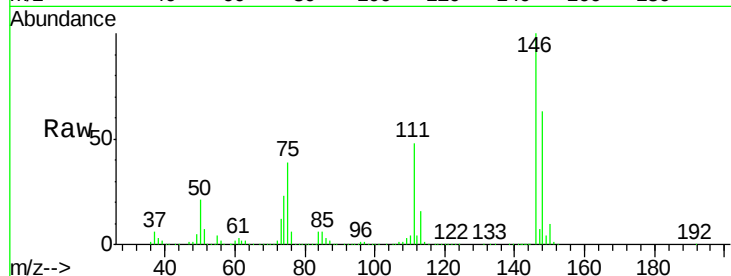
111 47.1 23.7 71.1

148 63.1 31.1 93.5

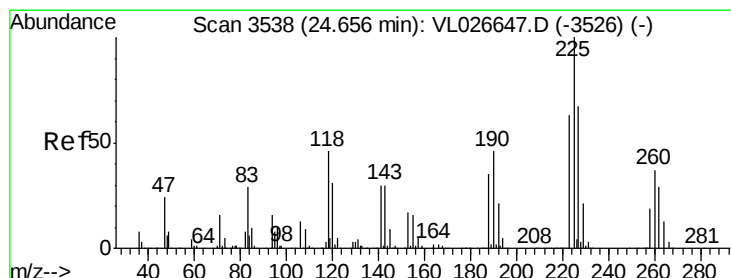
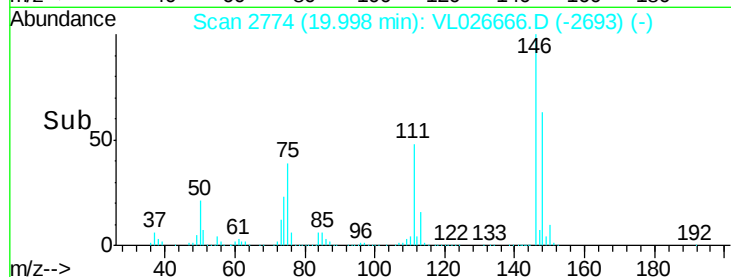
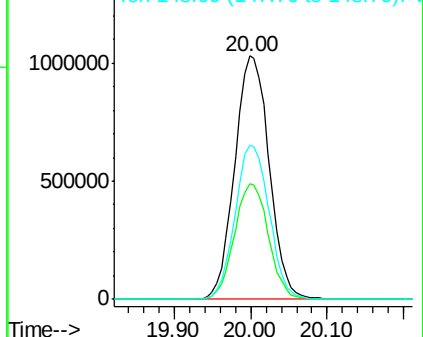
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 9.44 ppbv

RT: 24.65 min Scan# 3537

Delta R.T. -0.01 min

Lab File: VL026666.D

Acq: 9 Jan 2016 8:19

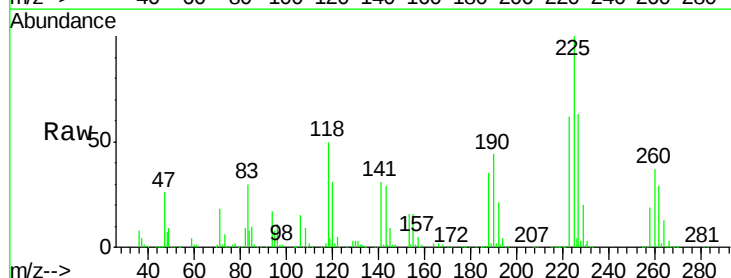
Tgt Ion:225 Resp: 1159479

Ion Ratio Lower Upper

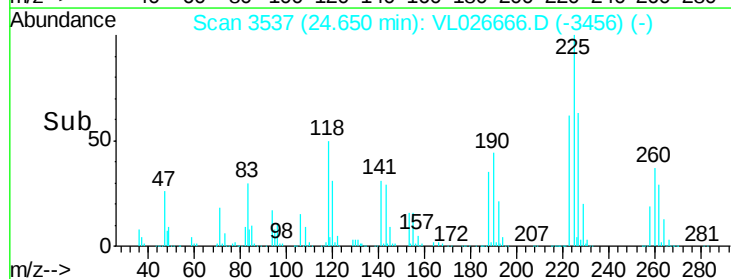
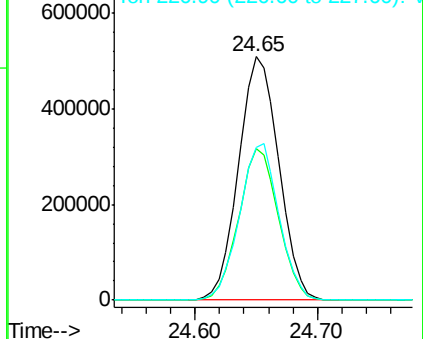
225 100

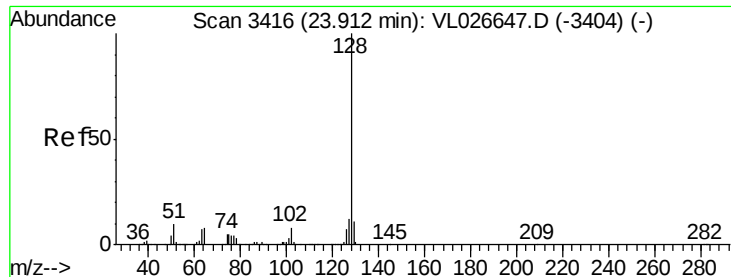
223 61.7 50.1 75.1

227 63.4 51.1 76.7



Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 11.17 ppbv

RT: 23.91 min Scan# 3416

Delta R.T. 0.00 min

Lab File: VL026666.D

Acq: 9 Jan 2016 8:19

Instrument :

MSVOA_L

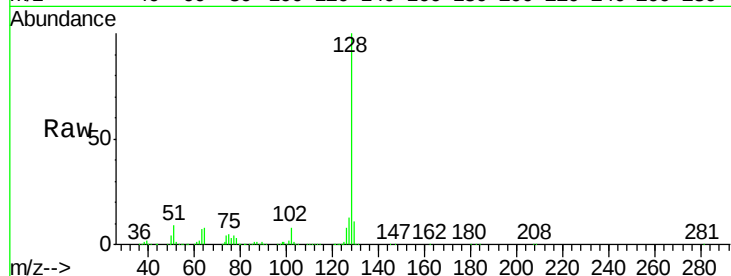
ClientSampleId :

VSTDCCC010EC

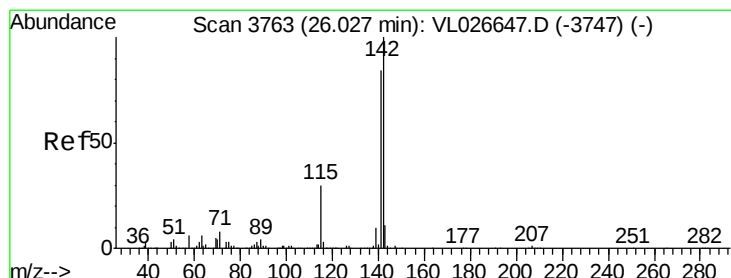
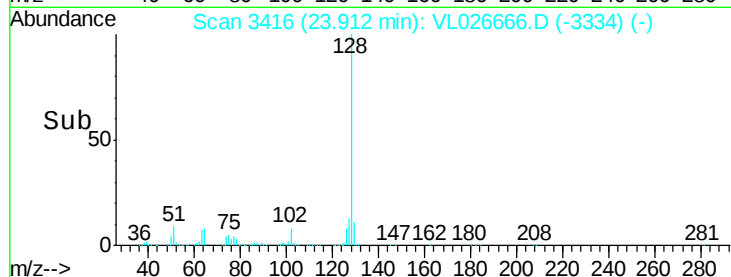
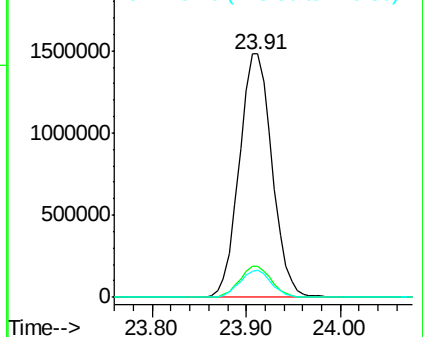
Tot Ion:	128	Resp:	3618818
Ion	Ratio	Lower	Upper
128	100		
127	13.0	9.8	14.8
129	11.1	8.9	13.3

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



#80

Naphthalene, 2-methyl-

Concen: 16.23 ppbv

RT: 26.02 min Scan# 3762

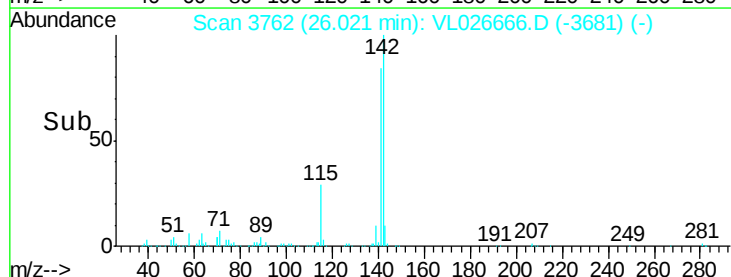
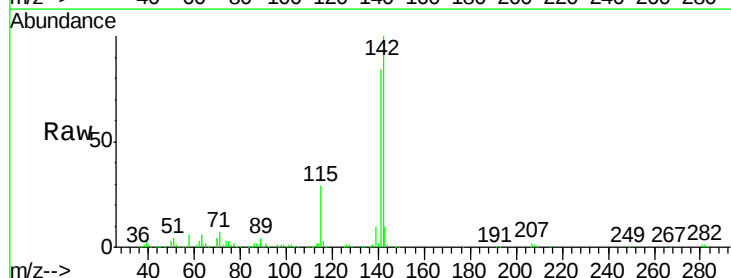
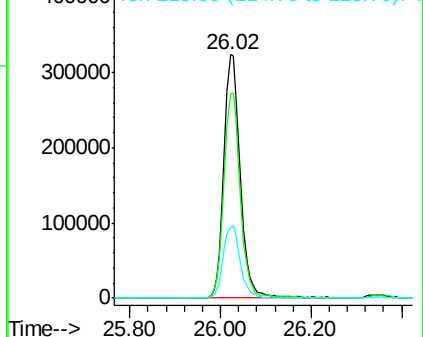
Delta R.T. -0.01 min

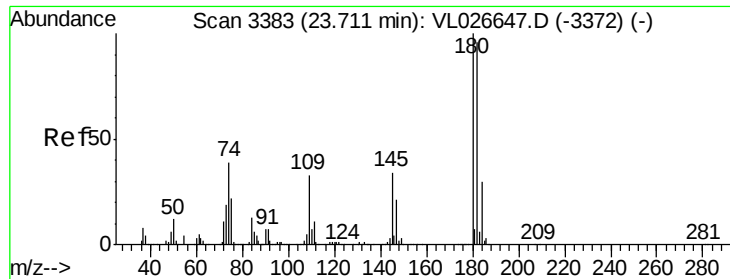
Lab File: VL026666.D

Acq: 9 Jan 2016 8:19

Tgt Ion:	142	Resp:	816268
Ion	Ratio	Lower	Upper
142	100		
141	84.4	67.0	100.6
115	31.4	24.7	37.1

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





#81
 1,2,4-Trichlorobenzene
 Concen: 10.74 ppbv
 RT: 23.71 min Scan# 3383
 Delta R.T. 0.00 min
 Lab File: VL026666.D
 Acq: 9 Jan 2016 8:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	94.9	75.4	113.0
184	30.4	24.1	36.1

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