

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL020916\
 Data File : VL026829.D
 Acq On : 9 Feb 2016 20:48
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 2/11/2016 1:23:22 PM

Quant Time: Feb 10 03:01:17 2016
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL020916AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 03:01:17 2016
 QLast Update : Wed Feb 10 02:03:34 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.70	49	1708507	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	8.37	114	4721391	10.00	ppbv	0.00
55) Chlorobenzene-d5	13.80	117	4618972m	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	16.35	95	3308871	8.44	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	84.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.67	85	4292670	7.91	ppbv	98
3) Chlorodifluoromethane	3.59	51	2555789	7.79	ppbv	99
4) Chloromethane	3.78	50	1494480	14.73	ppbv	100
5) Vinyl Chloride	3.92	62	1693118	14.08	ppbv	99
6) Bromomethane	4.17	94	1486577	14.35	ppbv	98
7) Chloroethane	4.27	64	771526	13.94	ppbv	99
8) Dichlorotetrafluoroethane	3.83	85	4578510	11.54	ppbv	95
9) Propene	3.62	41	1076903	16.03	ppbv	98
10) Heptane	9.40	43	3943101	15.32	ppbv	97
11) Trichlorofluoromethane	4.73	101	6076178	9.73	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	5.34	101	4515911	12.31	ppbv	97
13) Ethanol	4.36	45	112721	7.30	ppbv	96
14) Bromoethene	4.48	108	1711726	14.44	ppbv	100
15) Acetone	4.63	43	2658640	6.62	ppbv	99
16) 1,3-Butadiene	4.00	39	1279444	11.63	ppbv	98
17) tert-Butyl alcohol	5.15	59	2691153	12.48	ppbv	99
18) 1,1-Dichloroethene	5.12	96	1954765	13.88	ppbv	94
19) Isopropyl Alcohol	4.78	45	1158281	10.94	ppbv	99
20) Methylene Chloride	5.18	84	1717353	13.15	ppbv	96
21) Allyl Chloride	5.26	41	2076038	12.21	ppbv	98
22) trans-1,2-Dichloroethene	5.80	96	1868388	13.90	ppbv	97
23) Vinyl Acetate	6.02	43	4796247	11.23	ppbv	99
24) 1,1-Dichloroethane	5.95	63	3761299	12.54	ppbv	99
25) Ethyl Acetate	6.71	43	5609940	14.17	ppbv	99
26) Hexane	6.70	57	3081179	15.64	ppbv	97
27) Carbon Disulfide	5.42	76	5120822	13.05	ppbv	99
28) Methyl tert-Butyl Ether	5.99	73	4905662	11.18	ppbv	100
29) Chloroform	6.79	83	4687332	10.64	ppbv	97
30) Cyclohexane	8.32	84	2755677	13.58	ppbv	95
31) cis-1,2-Dichloroethene	6.56	61	2721325	12.72	ppbv	97
32) 1,1,1-Trichloroethane	7.64	97	4837041	9.63	ppbv	99
34) 2-Butanone	6.24	43	3397802	15.47	ppbv	98
35) Carbon Tetrachloride	8.21	117	5358484	11.43	ppbv	99
36) Benzene	8.07	78	5930022	14.98	ppbv	99
37) 1,2-Dichloroethane	7.42	62	3491596	10.26	ppbv	99
38) Trichloroethene	9.11	130	3138166	16.78	ppbv	97
39) 1,2-Dichloropropane	8.87	63	2172716	16.33	ppbv	97
40) 1,4-Dioxane	9.16	88	318280	9.77	ppbv #	1
41) Tetrahydrofuran	7.16	42	1912079	19.27	ppbv	97
42) Bromodichloromethane	9.07	83	5140616	11.65	ppbv	99
43) Methyl Methacrylate	9.31	69	2348967	15.42	ppbv	95

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Quant Time: Feb 10 03:01:17 2016
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb 10 03:01:17 2016
 QLast Update : Wed Feb 10 02:03:34 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	9.13	57	9729055	15.46	ppbv	97
45) t-1,3-Dichloropropene	10.70	75	3411987	12.94	ppbv	99
46) cis-1,3-Dichloropropene	10.07	75	4030792	14.28	ppbv	97
47) 1,1,2-Trichloroethane	10.93	97	2596670	12.34	ppbv	99
48) Dibromochloromethane	11.85	129	4629839	11.68	ppbv	100
49) Bromoform	14.87	173	3800676	11.17	ppbv	99
50) 4-Methyl-2-Pentanone	10.13	43	4627742	15.15	ppbv	98
51) 2-Hexanone	11.66	43	4246997	14.45	ppbv #	96
52) Tetrachloroethene	12.84	164	2814430	12.66	ppbv	99
53) Toluene	11.29	91	7435648	12.79	ppbv	98
54) 1,2-Dibromoethane	12.19	107	4019754	11.28	ppbv	99
56) 1,1,1,2-Tetrachloroethane	13.84	131	3559766	14.59	ppbv	89
57) Chlorobenzene	13.87	112	6490497	13.89	ppbv	98
58) Ethyl Benzene	14.46	91	9702756	12.82	ppbv	94
59) m/p-Xylene	14.77	91	15792157	23.83	ppbv	94
60) o-Xylene	15.54	91	9044195	12.35	ppbv	96
61) Styrene	15.36	104	3584516	13.61	ppbv	98
62) Isopropylbenzene	16.60	105	10575866	11.07	ppbv	96
63) 1,1,2,2-Tetrachloroethane	15.54	83	6130580	12.97	ppbv	99
64) n-propylbenzene	17.58	120	2965041	11.07	ppbv	86
65) tert-Butylbenzene	18.87	119	10791672	11.17	ppbv	99
66) Benzyl Chloride	19.16	91	4040501	11.10	ppbv	98
67) sec-Butylbenzene	19.47	105	12732928	9.01	ppbv	95
69) p-Isopropyltoluene	19.85	119	11236273	9.84	ppbv	97
70) n-Butylbenzene	20.81	91	10465491	8.82	ppbv	95
71) 2-Chlorotoluene	17.48	91	7746160	10.43	ppbv	95
72) 4-Ethyltoluene	17.88	105	8833510	10.60	ppbv	98
73) 1,3,5-Trimethylbenzene	18.04	105	8459025	10.32	ppbv	95
74) 1,2,4-Trimethylbenzene	18.89	105	9616693	10.61	ppbv	98
75) 1,3-Dichlorobenzene	19.18	146	5937137	9.96	ppbv	99
76) 1,4-Dichlorobenzene	19.33	146	5842270	9.79	ppbv	99
77) 1,2-Dichlorobenzene	20.08	146	5633498	9.11	ppbv	99
78) Hexachloro-1,3-Butadiene	24.71	225	2515288	8.32	ppbv	100
79) Naphthalene	23.97	128	4777793	6.10	ppbv	98
80) Naphthalene, 2-methyl-	26.09	142	1704161	12.57	ppbv	99
81) 1,2,4-Trichlorobenzene	23.78	180	2653199	7.71	ppbv	99

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

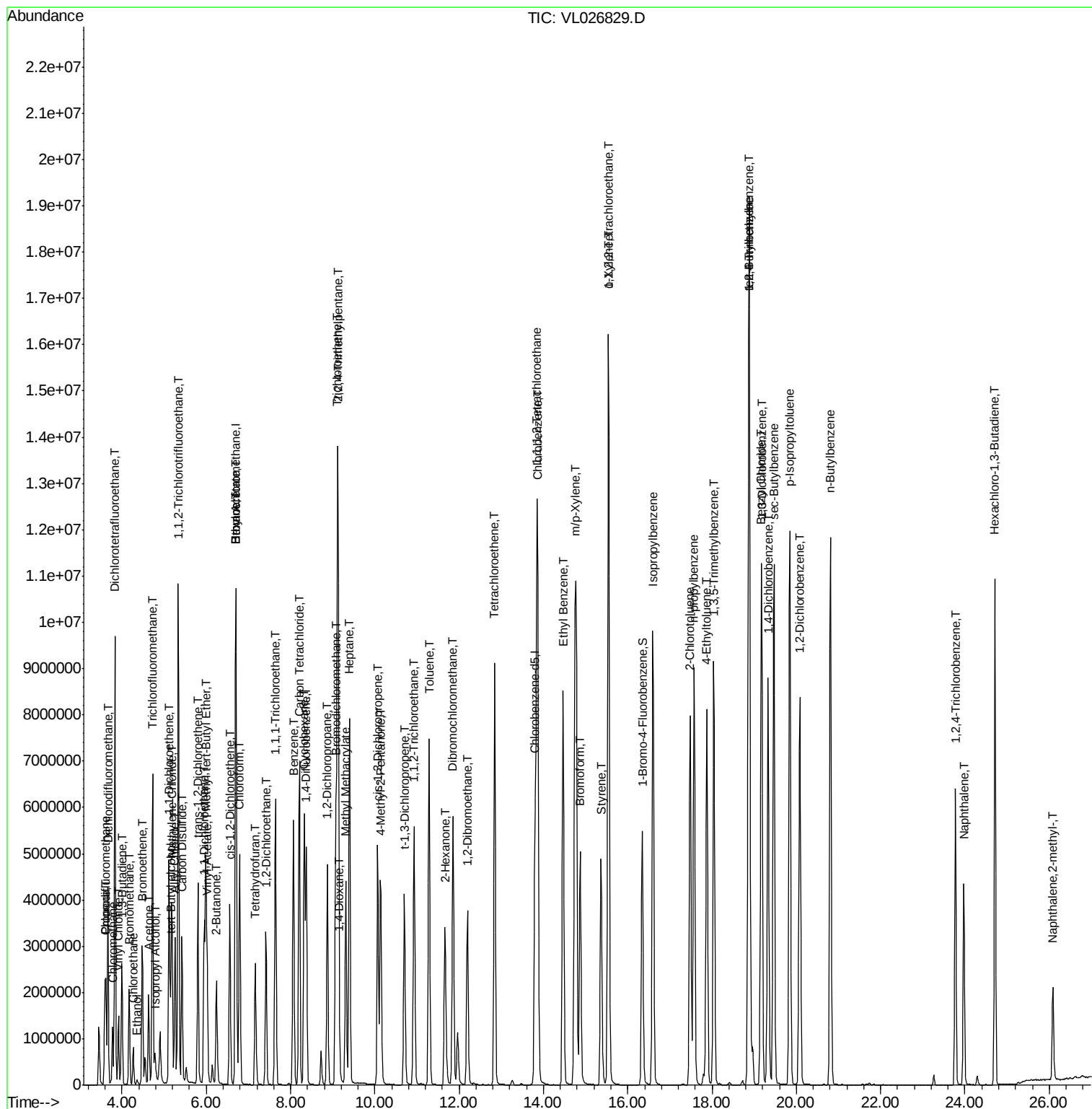
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Operator  : SY/AP  
Sample    : VSTDIC015  
Misc      : 400mL/MSVOA L  
ALS Vial  : 1 Sample Multiplier: 1
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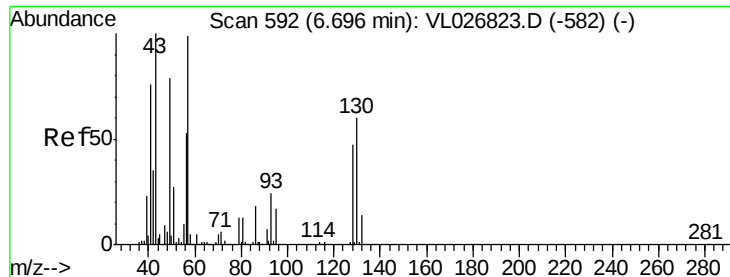
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC015

Manual Integrations APPROVED

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Quant Time: Feb 10 03:01:17 2016
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Feb
QLast Update : Wed Feb 10 02:03:34 2016
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#1

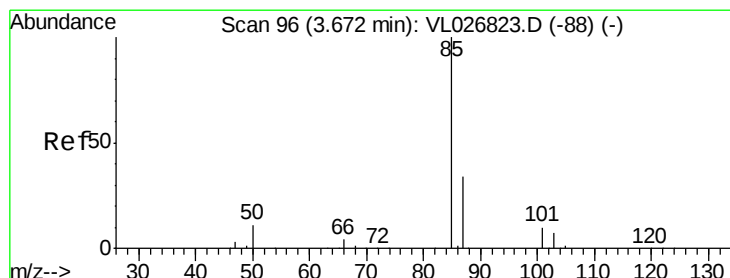
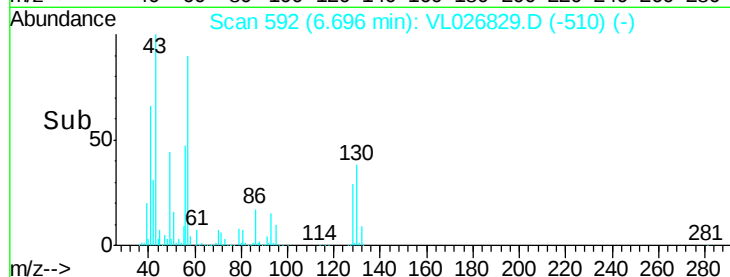
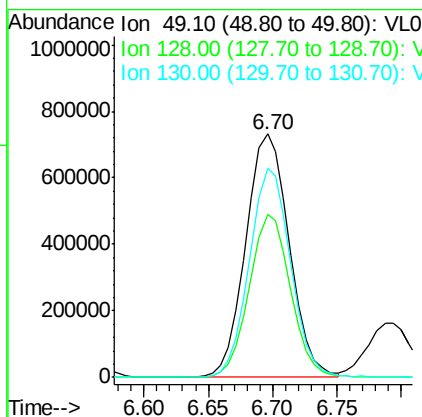
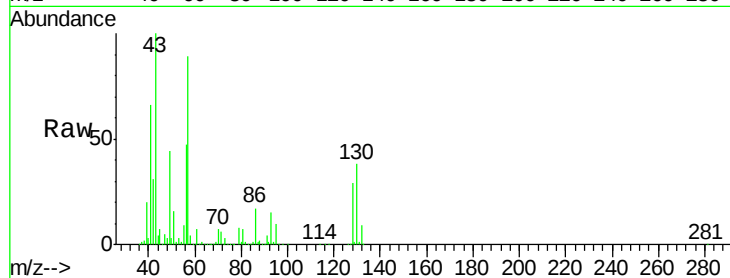
Bromochloromethane
 Concen: 10.00 ppbv
 RT: 6.70 min Scan# 592
 Delta R.T. -0.00 min
 Lab File: VL026829.D
 Acq: 9 Feb 2016 20:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 49 Resp: 1708507
 Ion Ratio Lower Upper
 49 100
 128 64.0 29.7 89.1
 130 82.5 38.3 114.8

Manual Integrations
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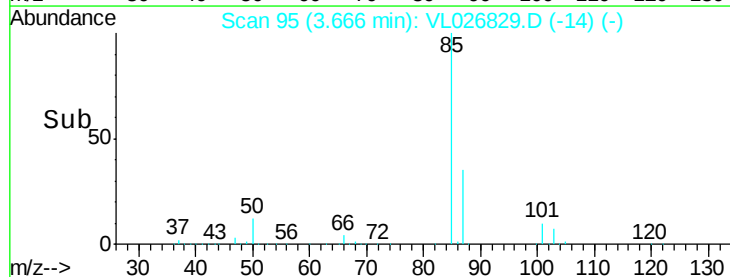
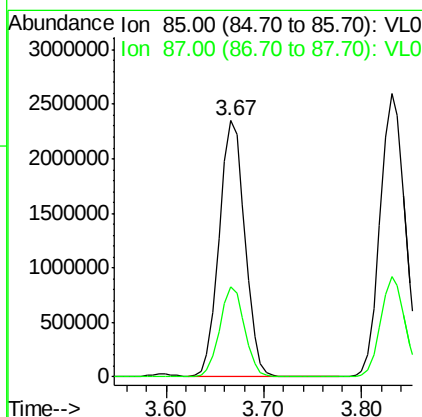
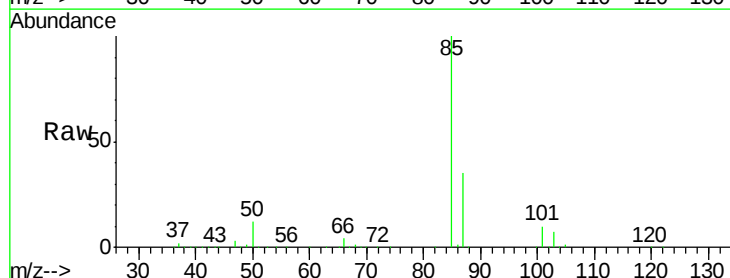
MMDadoda
 2/11/2016 1:23:22 PM

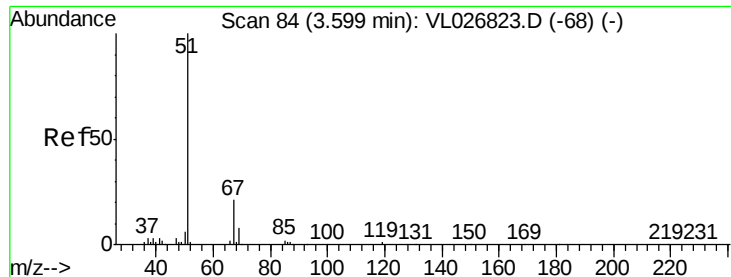


#2

Dichlorodifluoromethane
 Concen: 7.91 ppbv
 RT: 3.67 min Scan# 95
 Delta R.T. -0.01 min
 Lab File: VL026829.D
 Acq: 9 Feb 2016 20:48

Tgt Ion: 85 Resp: 4292670
 Ion Ratio Lower Upper
 85 100
 87 35.1 27.3 40.9





#3

Chlorodifluoromethane

Concen: 7.79 ppbv

RT: 3.59 min Scan# 83

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 51 Resp: 2555789

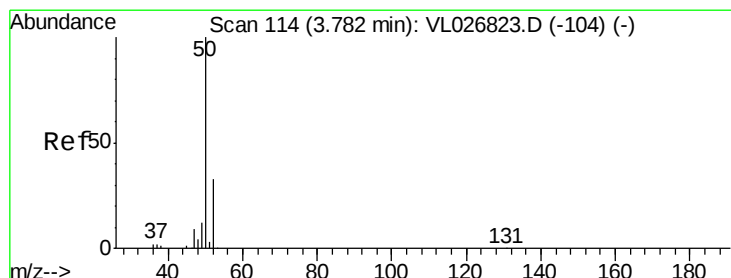
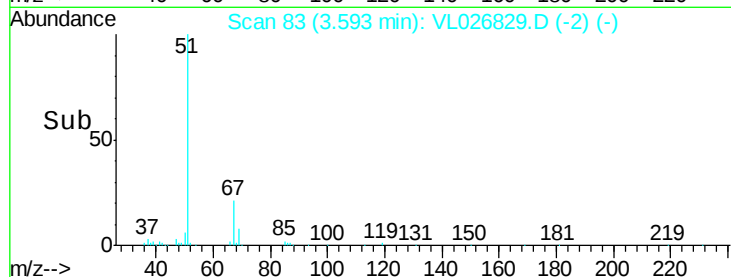
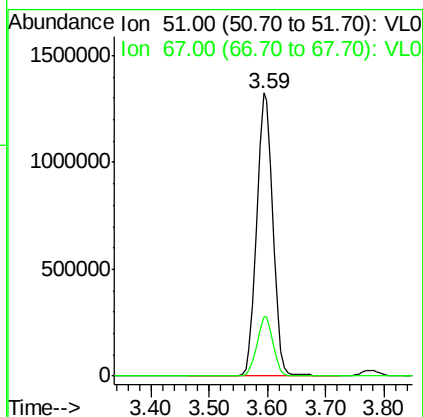
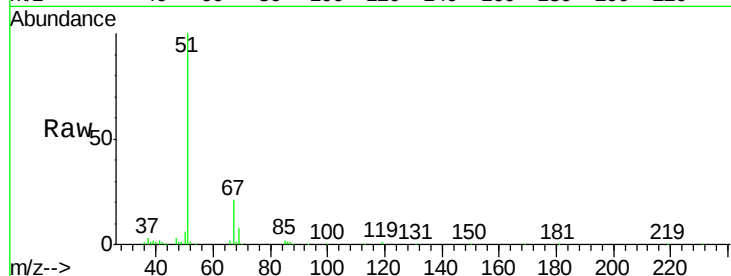
Ion Ratio Lower Upper

51 100

67 20.9 16.4 24.6

Manual Integrations
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#4

Chloromethane

Concen: 14.73 ppbv

RT: 3.78 min Scan# 113

Delta R.T. -0.01 min

Lab File: VL026829.D

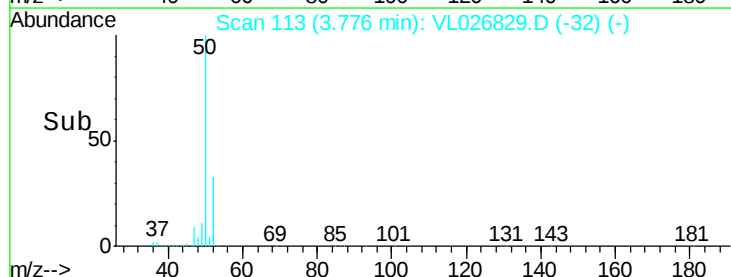
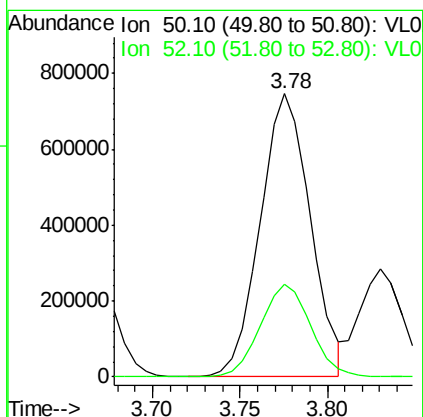
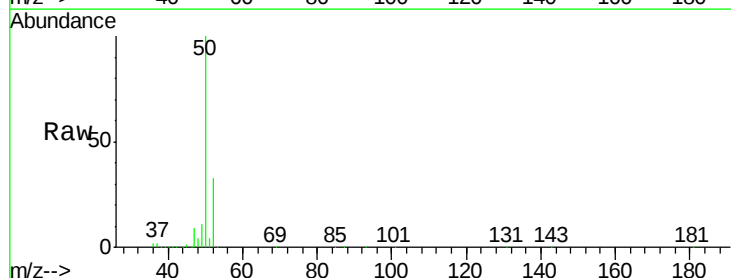
Acq: 9 Feb 2016 20:48

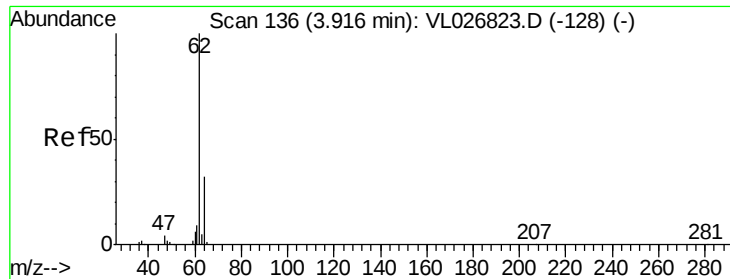
Tgt Ion: 50 Resp: 1494480

Ion Ratio Lower Upper

50 100

52 32.8 26.3 39.5





#5

Vinyl Chloride

Concen: 14.08 ppbv

RT: 3.92 min Scan# 136

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 1693118

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.8	38.6

62 100

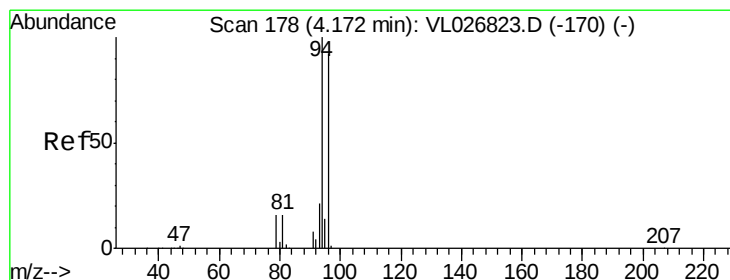
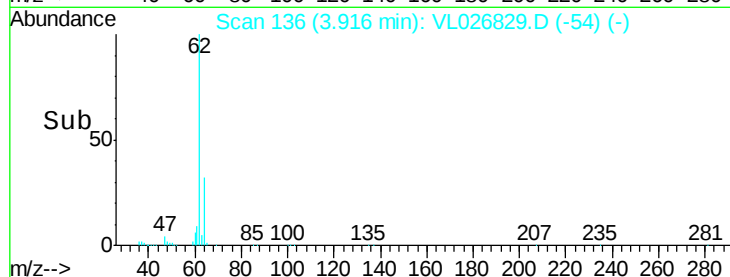
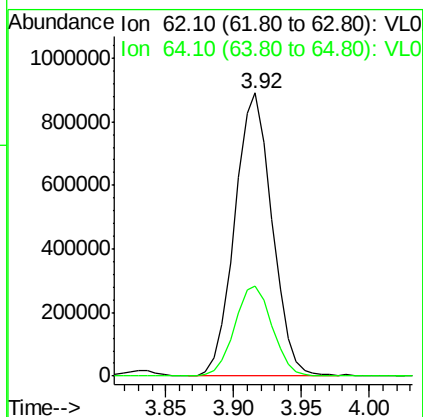
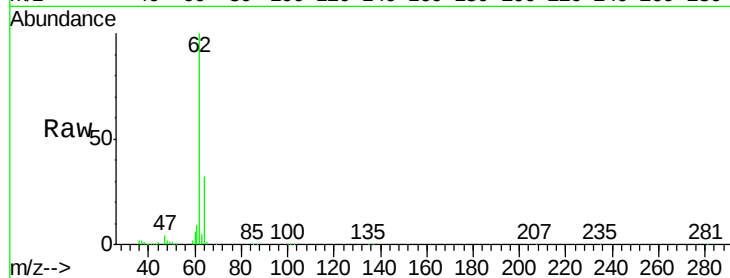
64 31.7 25.8 38.6

Manual Integrations

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#6

Bromomethane

Concen: 14.35 ppbv

RT: 4.17 min Scan# 178

Delta R.T. -0.00 min

Lab File: VL026829.D

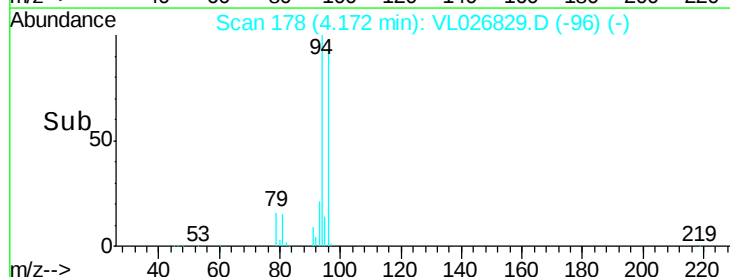
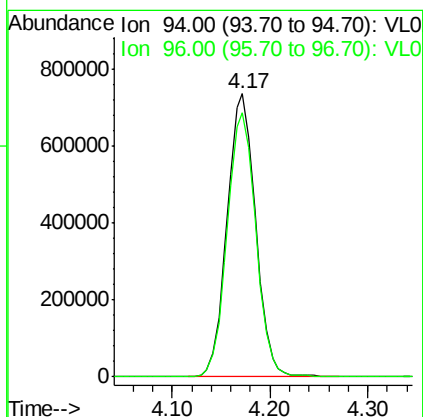
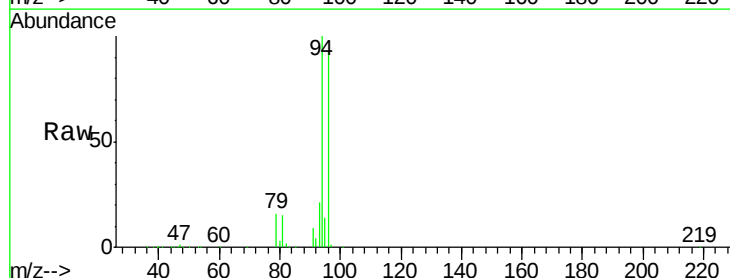
Acq: 9 Feb 2016 20:48

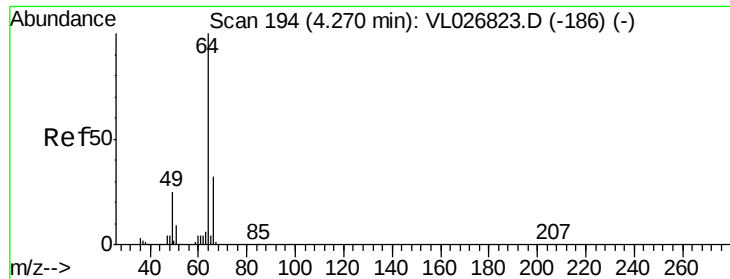
Tgt Ion: 94 Resp: 1486577

Ion	Ratio	Lower	Upper
94	100		
96	93.2	73.2	109.8

94 100

96 93.2 73.2 109.8





#7

Chloroethane

Concen: 13.94 ppbv

RT: 4.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 771526

Ion Ratio Lower Upper

64 100

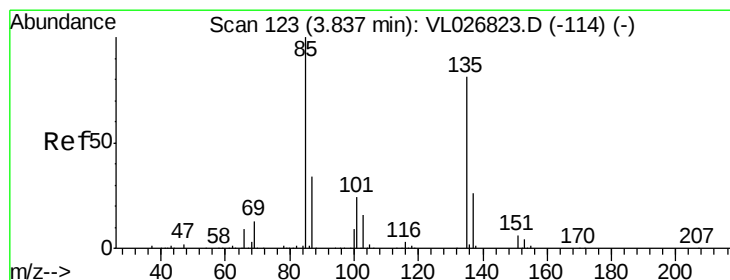
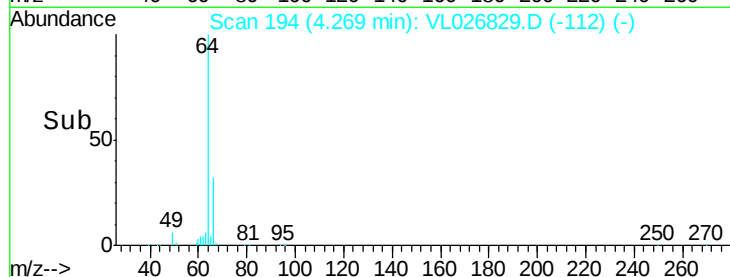
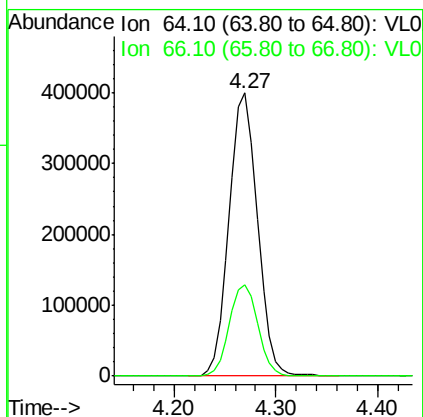
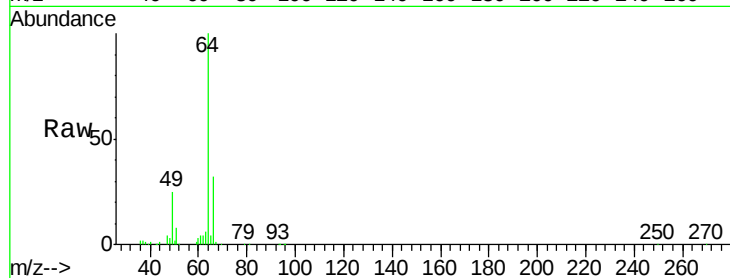
66 32.1 25.4 38.0

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 11.54 ppbv

RT: 3.83 min Scan# 122

Delta R.T. -0.01 min

Lab File: VL026829.D

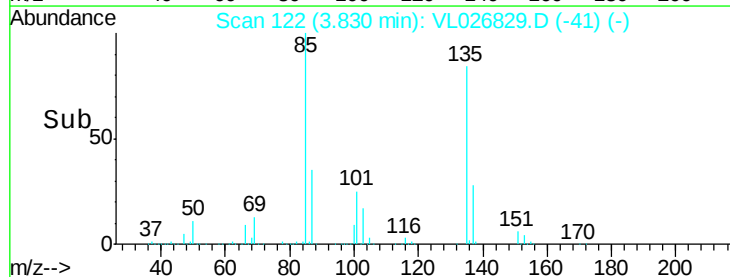
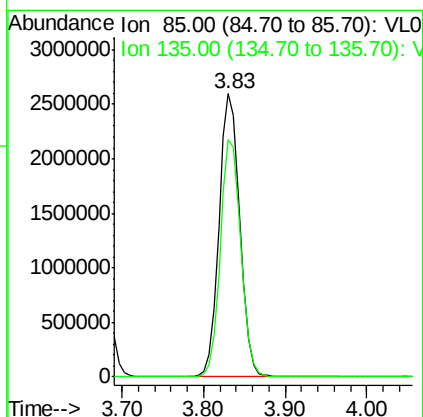
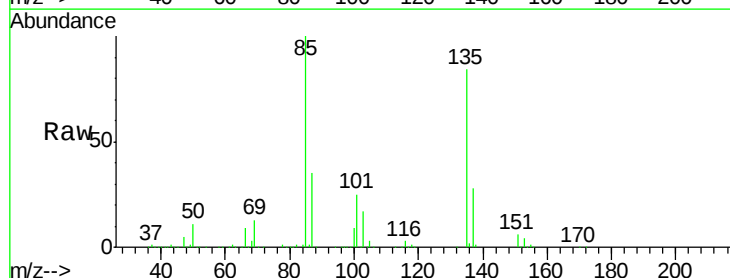
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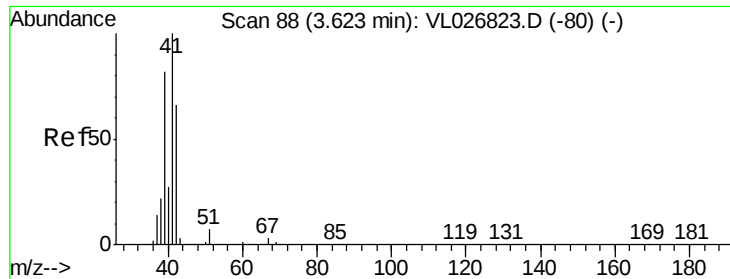
Tgt Ion: 85 Resp: 4578510

Ion Ratio Lower Upper

85 100

135 83.1 63.2 94.8





#9

Propene

Concen: 16.03 ppbv

RT: 3.62 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 1076903

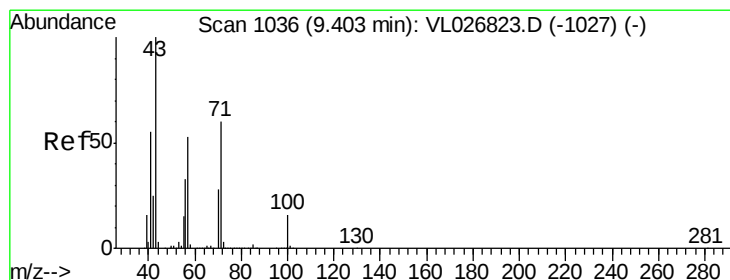
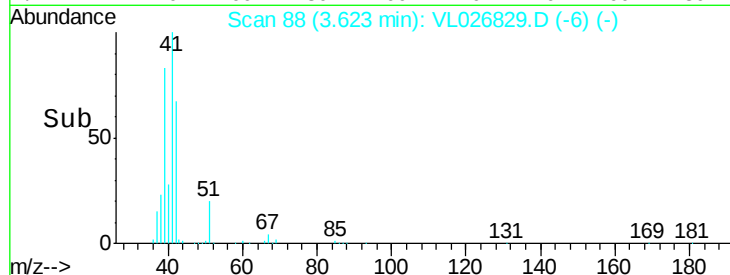
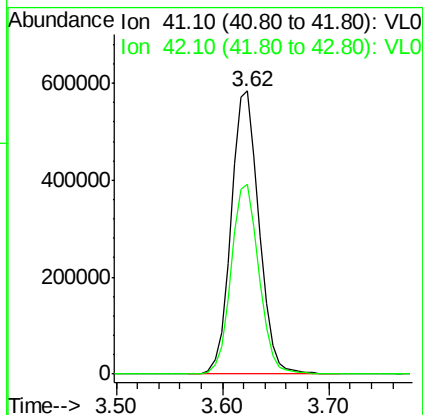
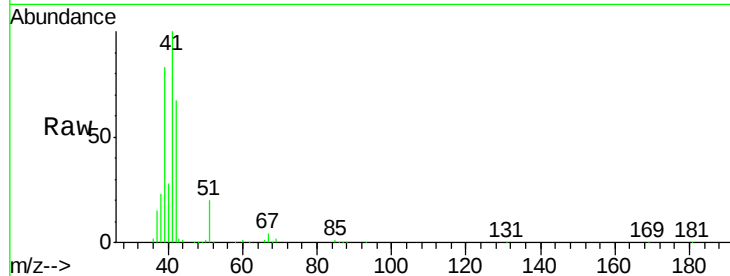
Ion Ratio Lower Upper

41 100

42 67.3 52.8 79.2

Manual Integrations
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#10

Heptane

Concen: 15.32 ppbv

RT: 9.40 min Scan# 1035

Delta R.T. -0.01 min

Lab File: VL026829.D

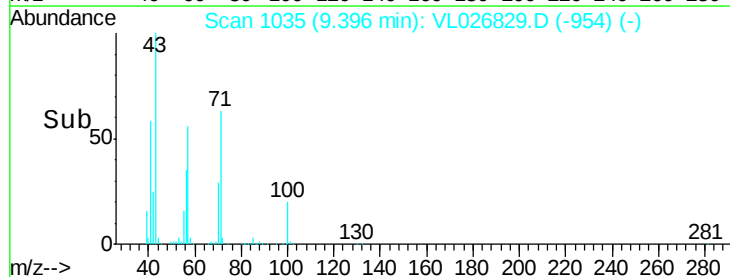
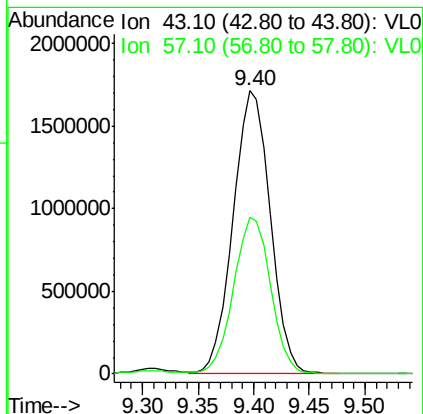
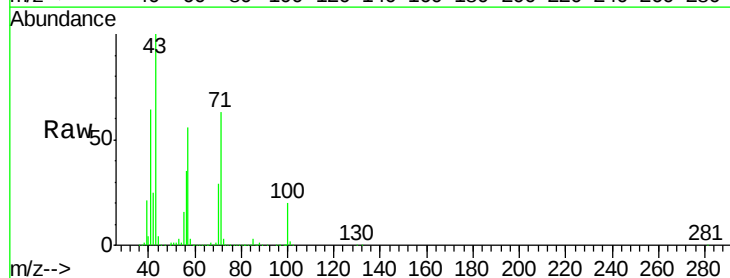
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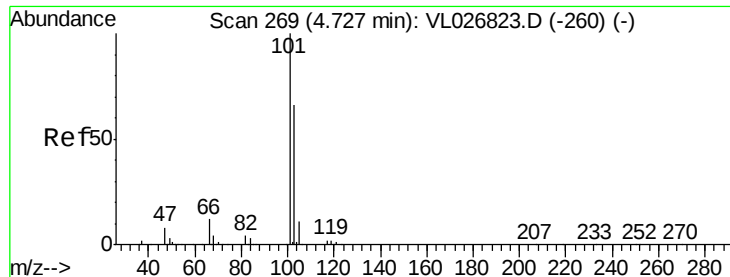
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Ion Ratio Lower Upper

43 100

57 56.9 44.0 66.0





#11

Trichlorofluoromethane

Concen: 9.73 ppbv

RT: 4.73 min Scan# 269

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:101 Resp: 6076178

Ion Ratio Lower Upper

101 100

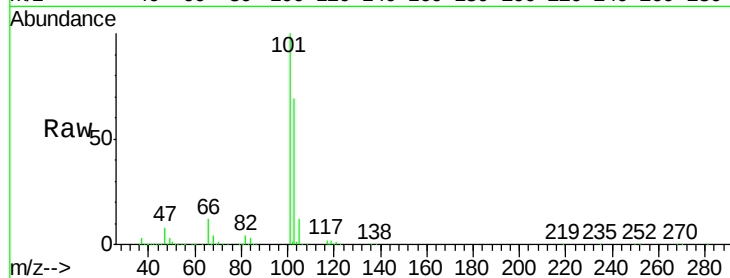
103 69.4 52.7 79.1

Manual Integrations

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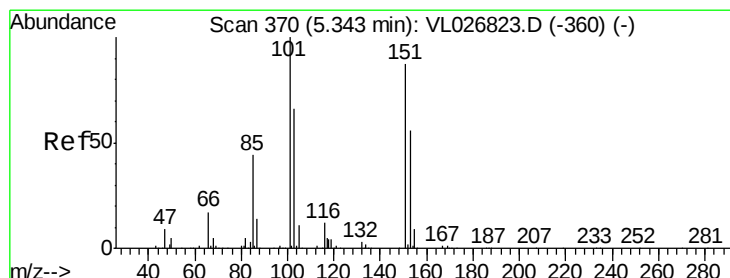
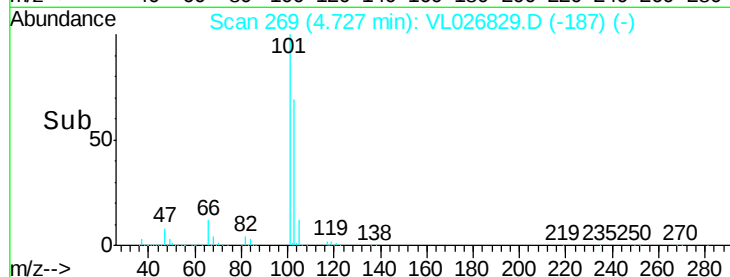
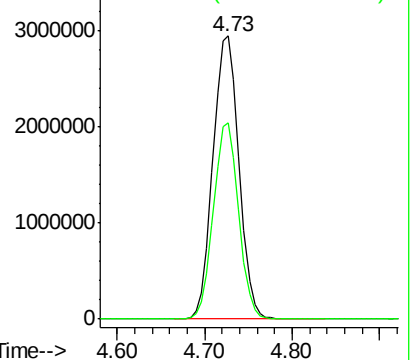
MMDadoda

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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: 12.31 ppbv

RT: 5.34 min Scan# 369

Delta R.T. -0.01 min

Lab File: VL026829.D

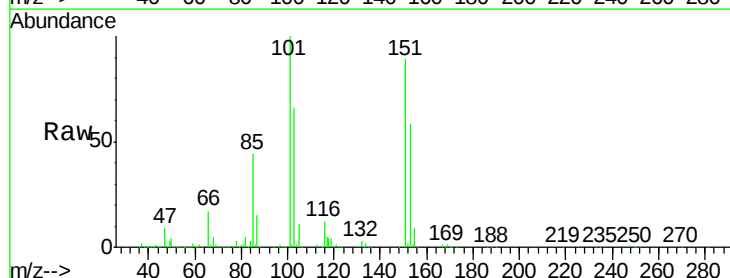
Acq: 9 Feb 2016 20:48

Tgt Ion:101 Resp: 4515911

Ion Ratio Lower Upper

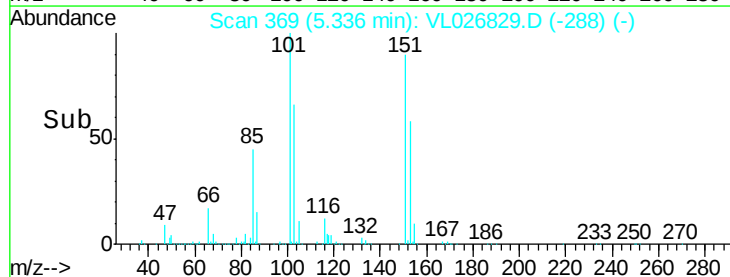
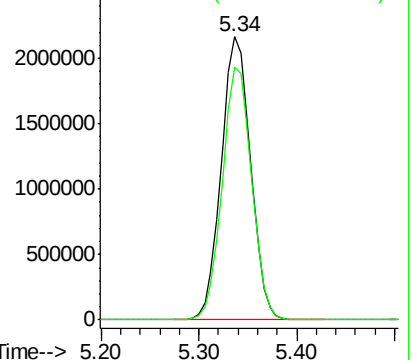
101 100

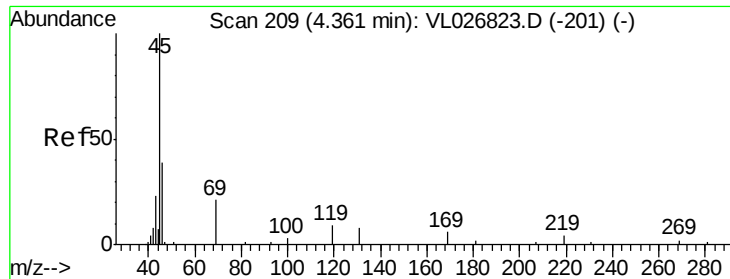
151 89.6 69.4 104.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





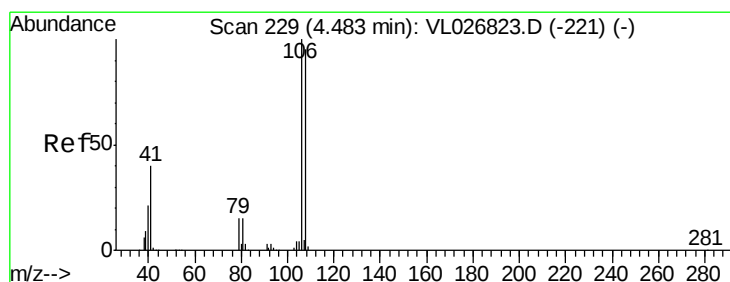
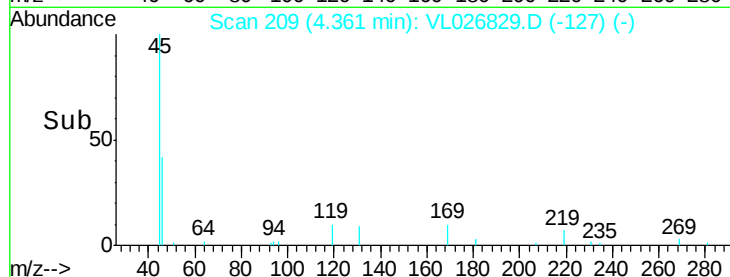
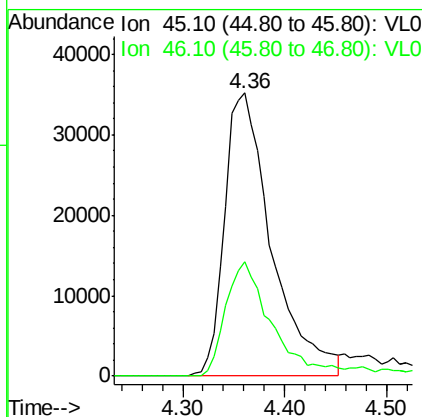
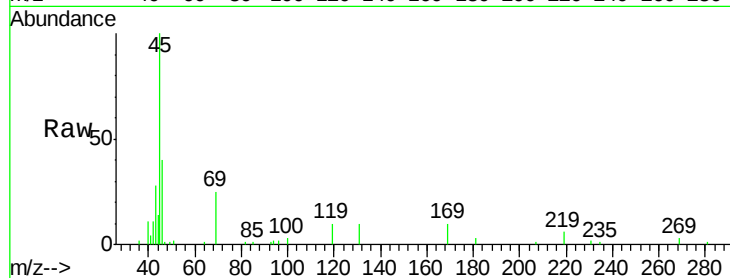
#13
Ethanol
Concen: 7.30 ppbv
RT: 4.36 min Scan# 209
Delta R.T. -0.00 min
Lab File: VL026829.D
Acq: 9 Feb 2016 20:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	45	Resp	112721
Ion Ratio	100	Lower	Upper
46	41.9	15.8	63.4

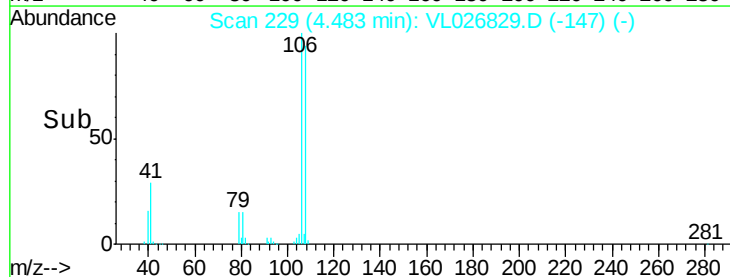
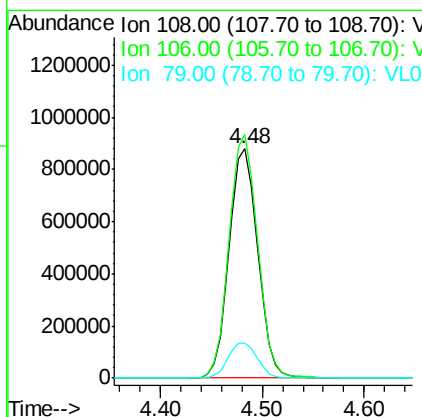
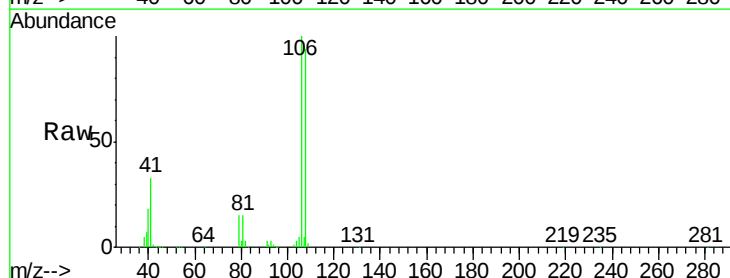
Manual Integrations
APPROVED

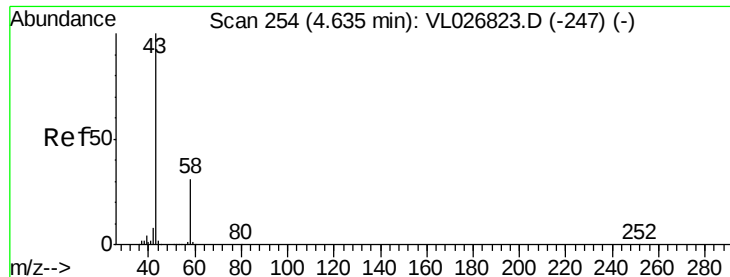
MMDadoda
2/11/2016 1:23:22 PM



#14
Bromoethene
Concen: 14.44 ppbv
RT: 4.48 min Scan# 229
Delta R.T. -0.00 min
Lab File: VL026829.D
Acq: 9 Feb 2016 20:48

Tgt Ion	108	Resp	1711726
Ion Ratio	100	Lower	Upper
106	106.0	84.6	126.8
79	16.2	13.4	20.0





#15

Acetone

Concen: 6.62 ppbv

RT: 4.63 min Scan# 253

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 2658640

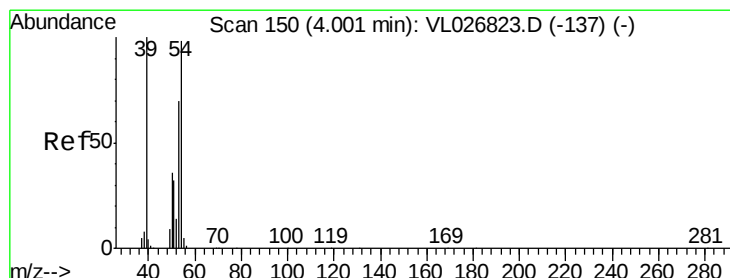
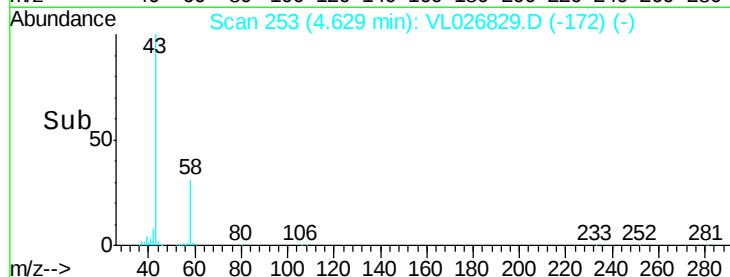
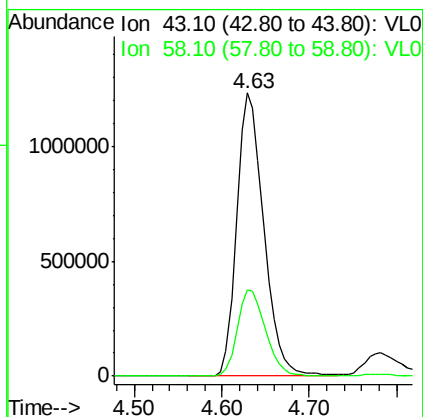
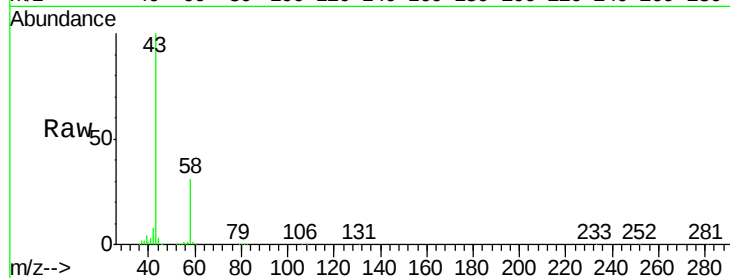
Ion Ratio Lower Upper

43 100

58 31.9 25.2 37.8

Manual Integrations
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#16

1,3-Butadiene

Concen: 11.63 ppbv

RT: 4.00 min Scan# 149

Delta R.T. -0.01 min

Lab File: VL026829.D

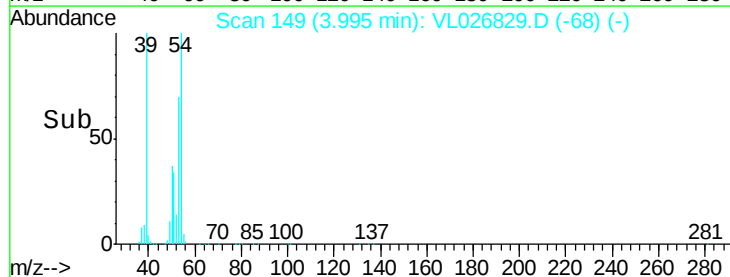
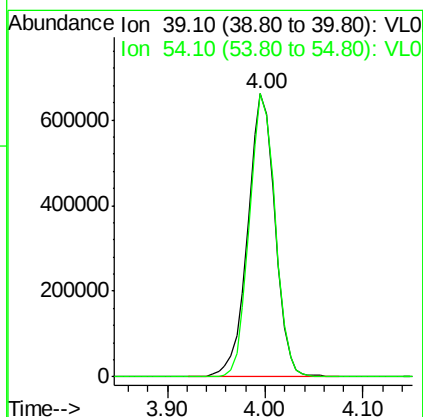
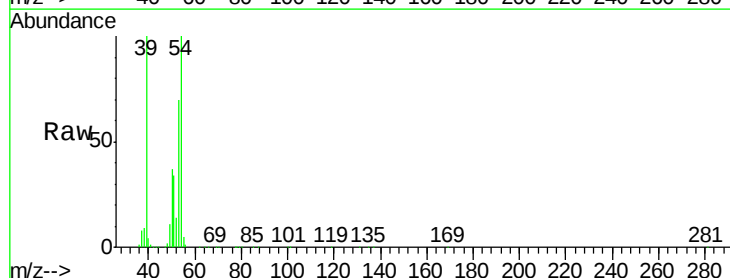
Acq: 9 Feb 2016 20:48

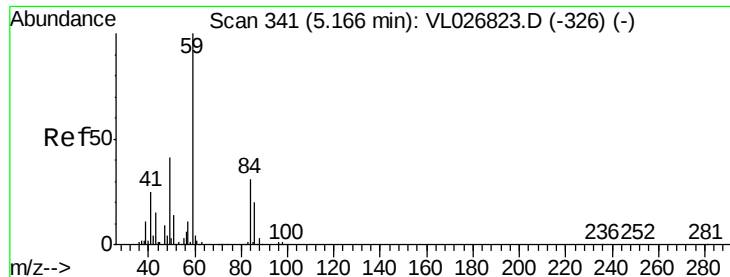
Tgt Ion: 39 Resp: 1279444

Ion Ratio Lower Upper

39 100

54 95.4 74.7 112.1





#17

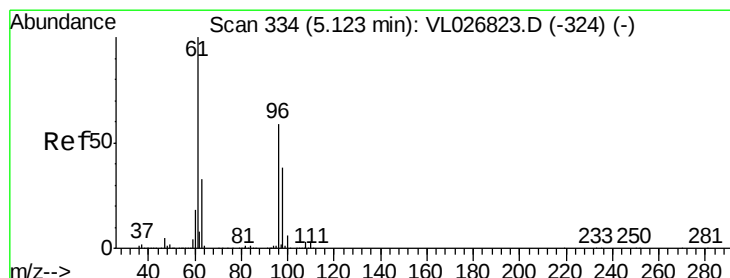
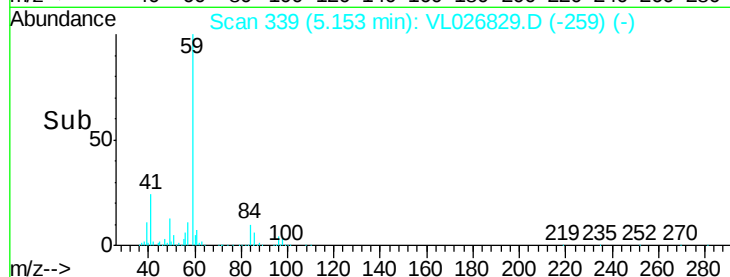
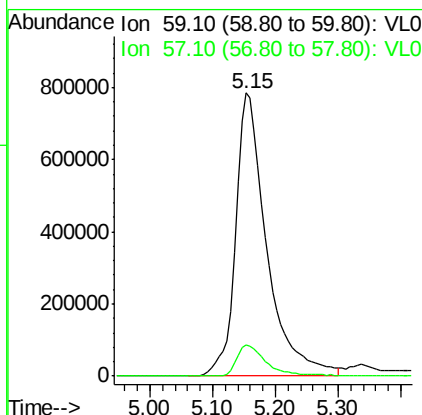
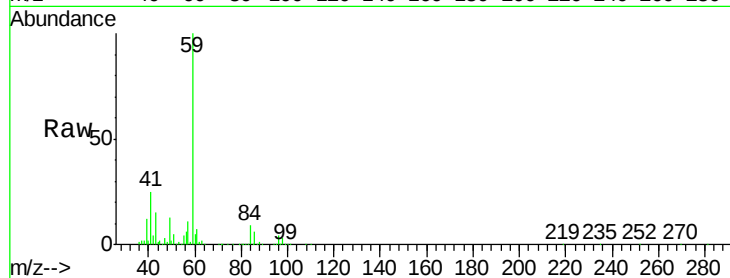
tert-Butyl alcohol
Concen: 12.48 ppbv
RT: 5.15 min Scan# 339
Delta R.T. -0.01 min
Lab File: VL026829.D
Acq: 9 Feb 2016 20:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 59 Resp: 2691153
Ion Ratio Lower Upper
59 100
57 11.2 8.5 12.7

Manual Integrations
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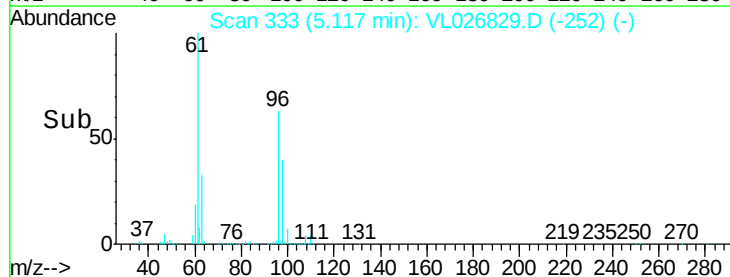
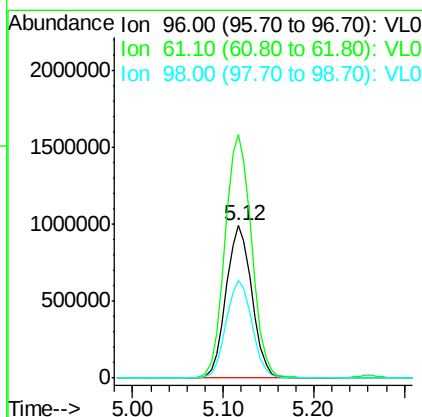
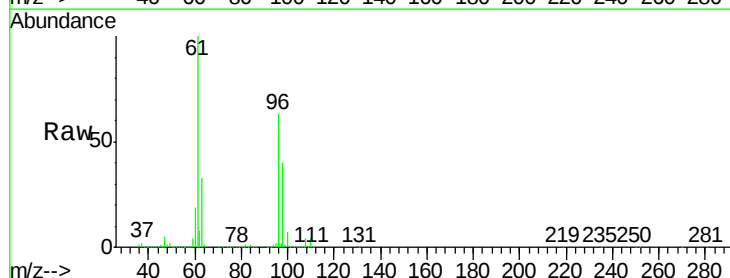
MMDadoda
2/11/2016 1:23:22 PM

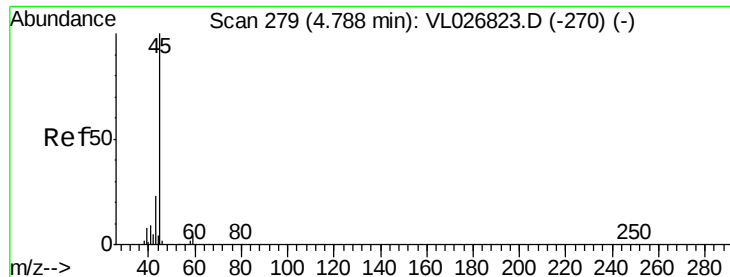


#18

1,1-Dichloroethene
Concen: 13.88 ppbv
RT: 5.12 min Scan# 333
Delta R.T. -0.01 min
Lab File: VL026829.D
Acq: 9 Feb 2016 20:48

Tgt Ion: 96 Resp: 1954765
Ion Ratio Lower Upper
96 100
61 159.9 136.7 205.1
98 64.2 52.1 78.1





#19

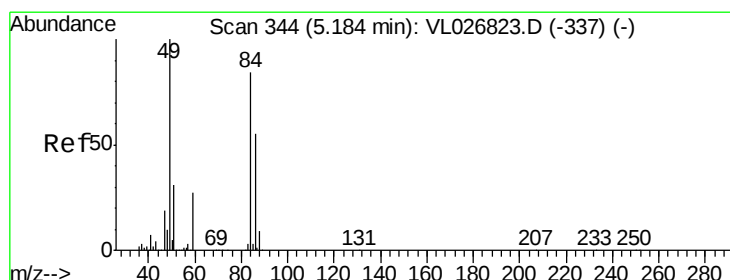
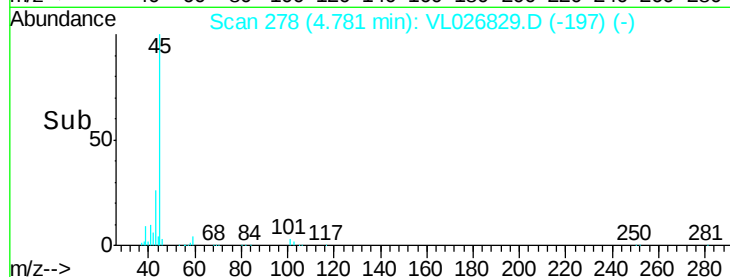
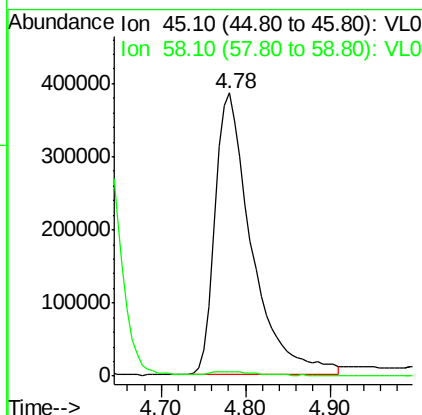
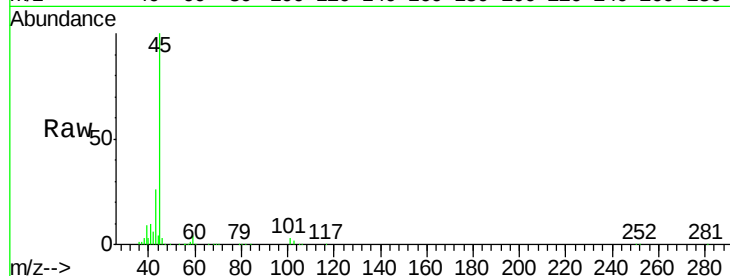
Isopropyl Alcohol
 Concen: 10.94 ppbv
 RT: 4.78 min Scan# 278
 Delta R.T. -0.01 min
 Lab File: VL026829.D
 Acq: 9 Feb 2016 20:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 45 Resp: 1158281
 Ion Ratio Lower Upper
 45 100
 58 2.3 2.2 3.2

Manual Integrations
 APPROVED

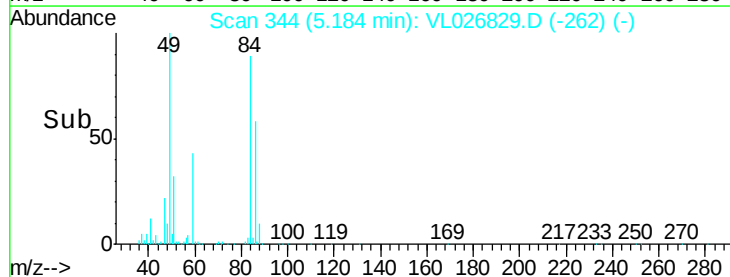
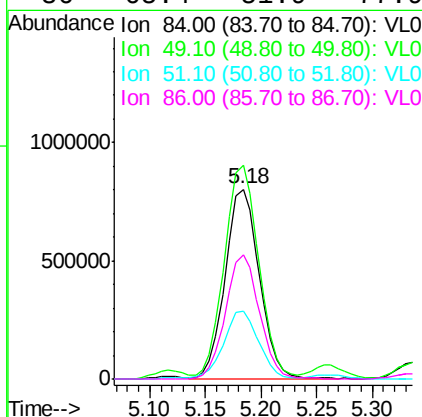
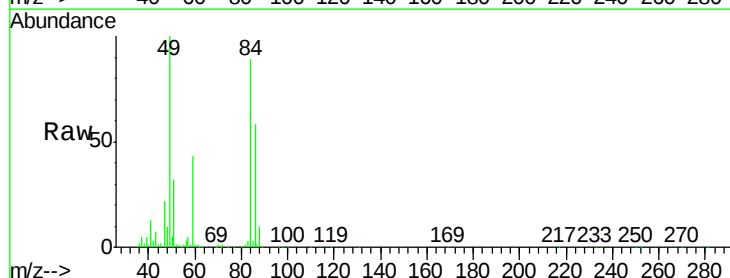
MMDadoda
 2/11/2016 1:23:22 PM

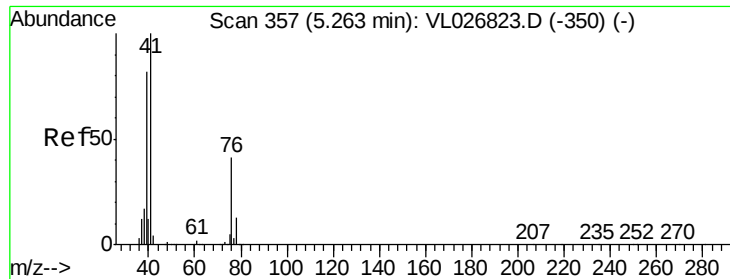


#20

Methylene Chloride
 Concen: 13.15 ppbv
 RT: 5.18 min Scan# 344
 Delta R.T. -0.00 min
 Lab File: VL026829.D
 Acq: 9 Feb 2016 20:48

Tgt Ion: 84 Resp: 1717353
 Ion Ratio Lower Upper
 84 100
 49 110.9 94.9 142.3
 51 35.4 29.5 44.3
 86 65.4 51.9 77.9





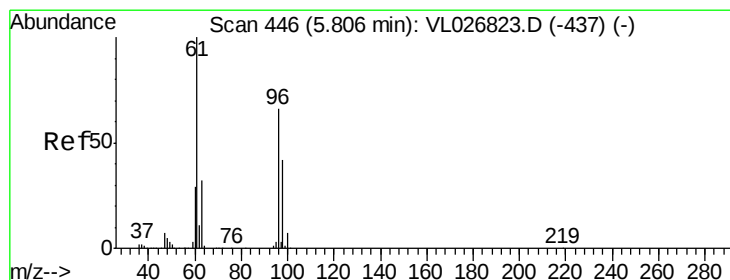
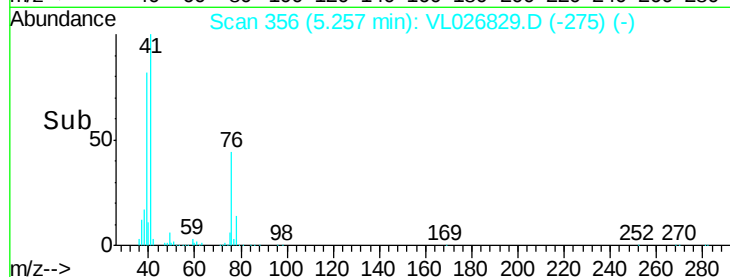
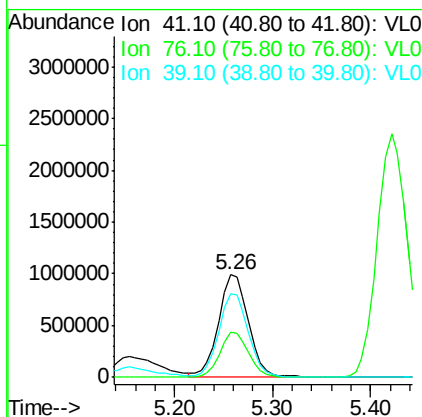
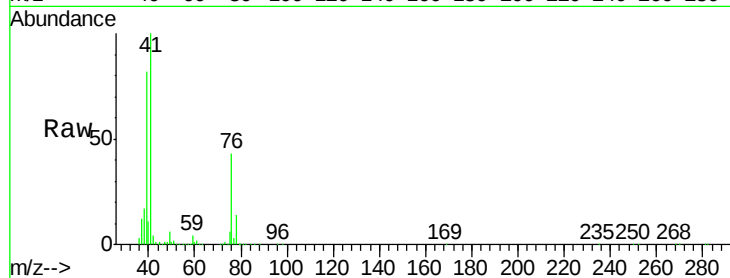
#21
Allvl Chloride
Concen: 12.21 ppbv
RT: 5.26 min Scan# 356
Delta R.T. -0.01 min
Lab File: VL026829.D
Acq: 9 Feb 2016 20:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 41 Resp: 2076038
Ion Ratio Lower Upper
41 100
76 42.3 32.0 48.0
39 82.2 64.6 96.8

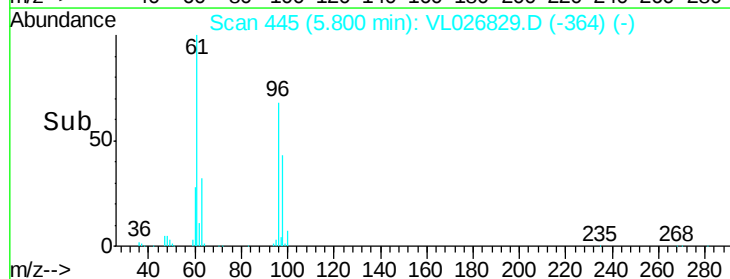
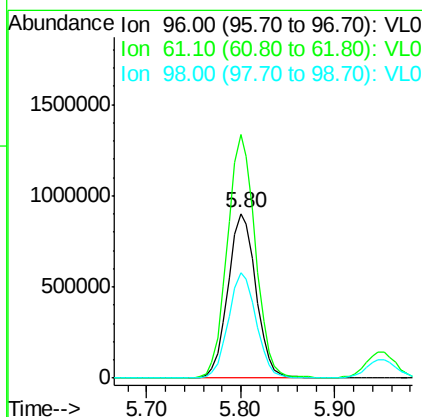
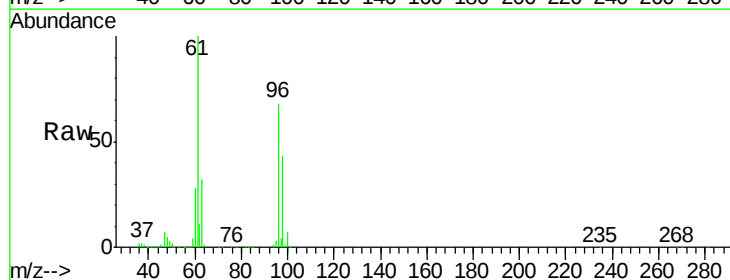
Manual Integrations
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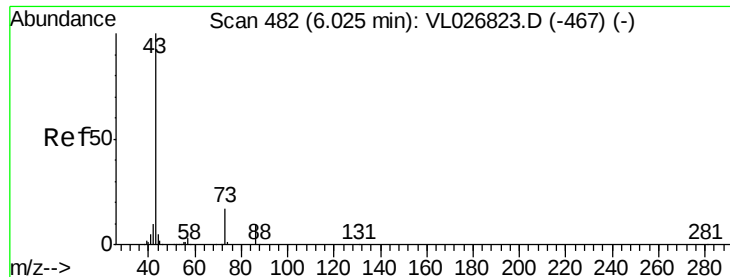
MMDadoda
2/11/2016 1:23:22 PM



#22
trans-1,2-Dichloroethene
Concen: 13.90 ppbv
RT: 5.80 min Scan# 445
Delta R.T. -0.01 min
Lab File: VL026829.D
Acq: 9 Feb 2016 20:48

Tgt Ion: 96 Resp: 1868388
Ion Ratio Lower Upper
96 100
61 148.0 121.6 182.4
98 64.2 50.6 76.0





#23

Vinyl Acetate

Concen: 11.23 ppbv

RT: 6.02 min Scan# 481

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleID :

VSTDIC015

Tot Ion: 43 Resp: 4796247

Ion Ratio Lower Upper

43 100

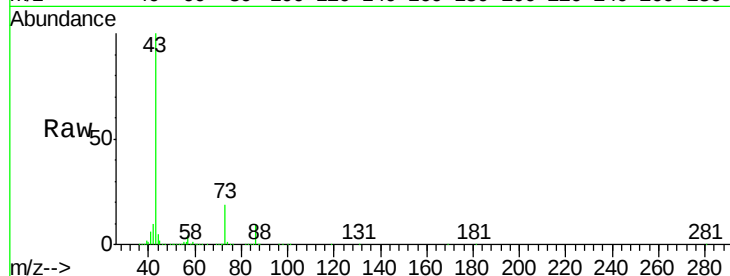
86 10.1 7.7 11.5

42 9.7 7.8 11.8

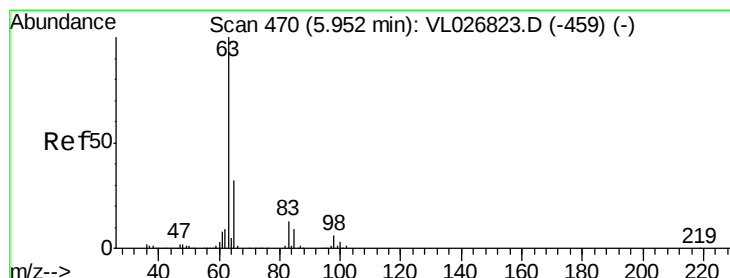
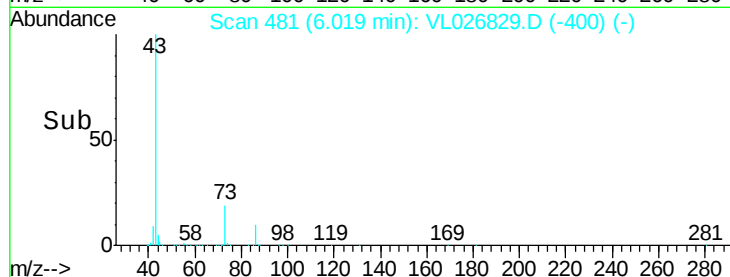
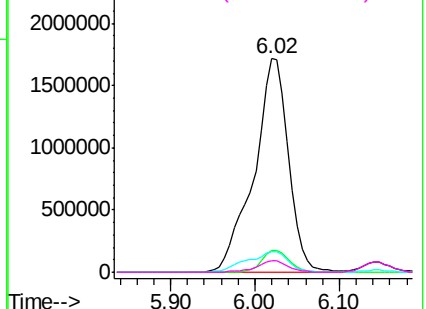
44 5.4 3.9 5.9

Manual Integrations
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2/11/2016 1:23:22 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 12.54 ppbv

RT: 5.95 min Scan# 469

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

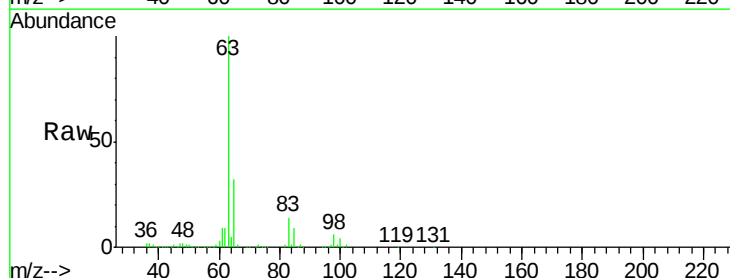
Tgt Ion: 63 Resp: 3761299

Ion Ratio Lower Upper

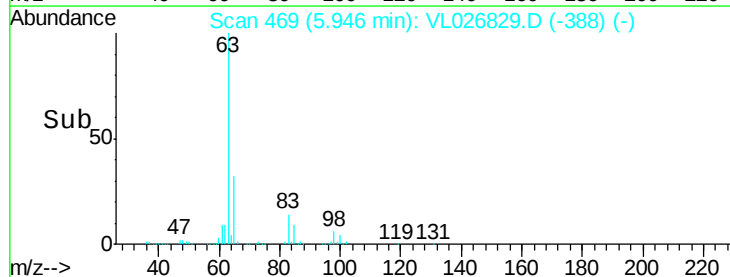
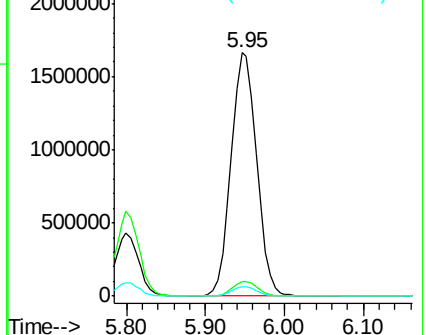
63 100

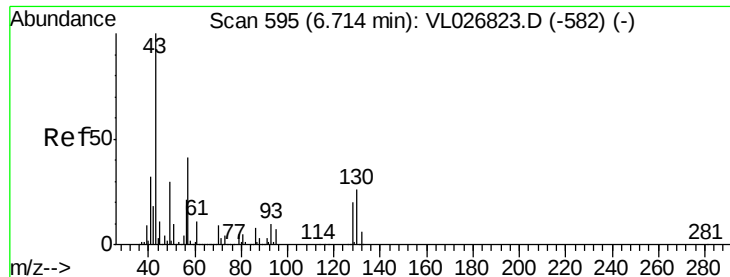
98 6.1 2.9 8.7

100 3.8 1.7 5.1



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





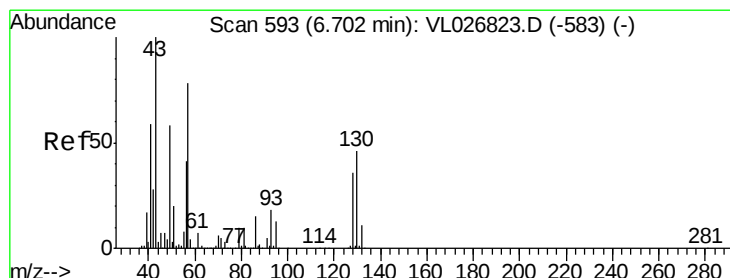
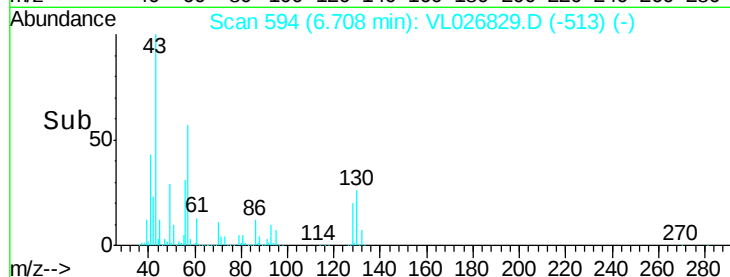
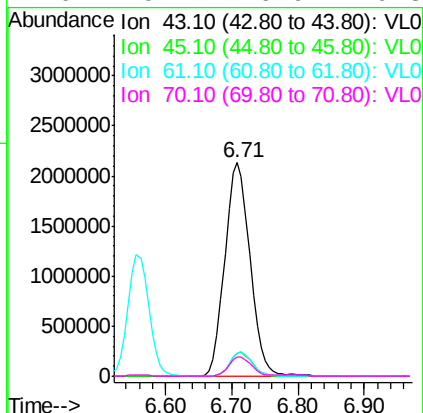
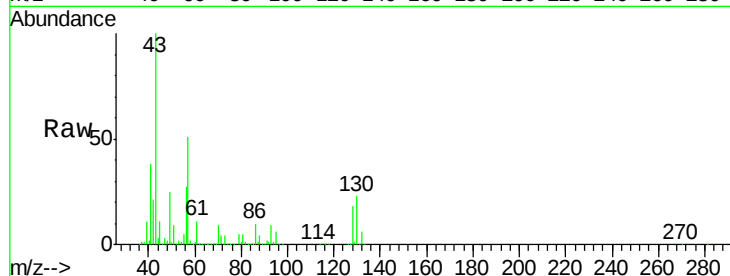
#25
Ethyl Acetate
Concen: 14.17 ppbv
RT: 6.71 min Scan# 594
Delta R.T. -0.01 min
Lab File: VL026829.D
Acq: 9 Feb 2016 20:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	43	Resp	5609940
Ion	Ratio	Lower	Upper
43	100		
45	10.1	7.8	11.8
61	10.3	7.9	11.9
70	9.2	6.9	10.3

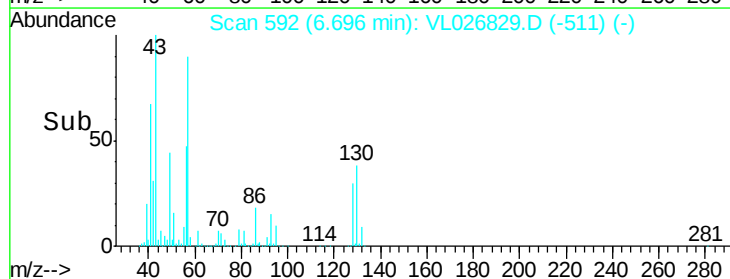
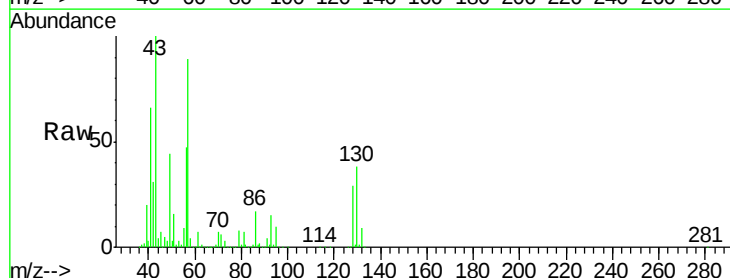
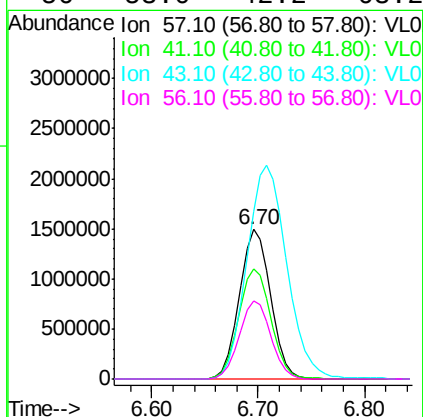
Manual Integrations
APPROVED

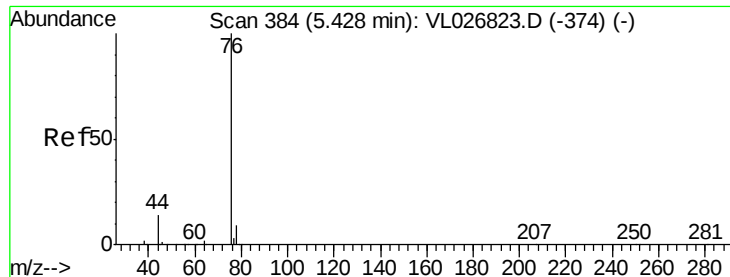
MMDadoda
2/11/2016 1:23:22 PM



#26
Hexane
Concen: 15.64 ppbv
RT: 6.70 min Scan# 592
Delta R.T. -0.01 min
Lab File: VL026829.D
Acq: 9 Feb 2016 20:48

Tgt Ion	57	Resp	3081179
Ion	Ratio	Lower	Upper
57	100		
41	77.4	63.3	94.9
43	182.1	151.4	227.2
56	53.0	42.2	63.2





#27

Carbon Disulfide

Concen: 13.05 ppbv

RT: 5.42 min Scan# 383

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 5120822

Ion Ratio Lower Upper

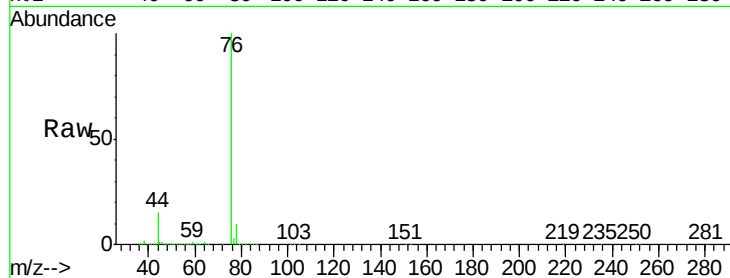
76 100

44 14.3 12.1 18.1

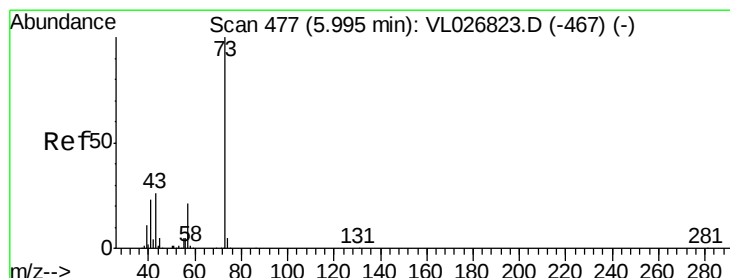
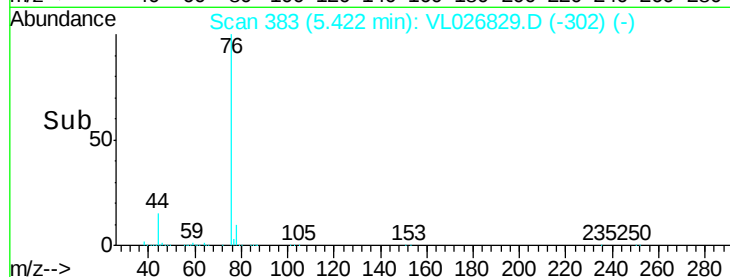
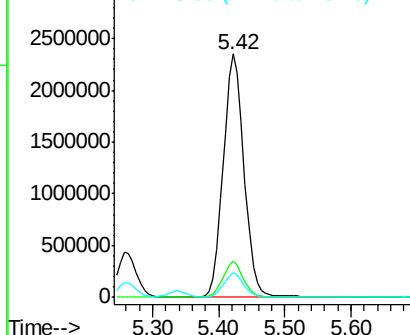
78 9.7 7.7 11.5

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



#28

Methyl tert-Butyl Ether

Concen: 11.18 ppbv

RT: 5.99 min Scan# 476

Delta R.T. -0.01 min

Lab File: VL026829.D

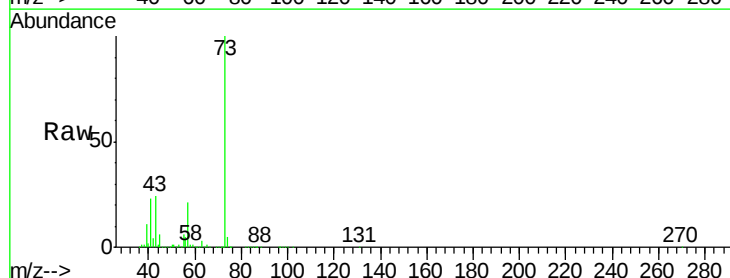
Acq: 9 Feb 2016 20:48

Tgt Ion: 73 Resp: 4905662

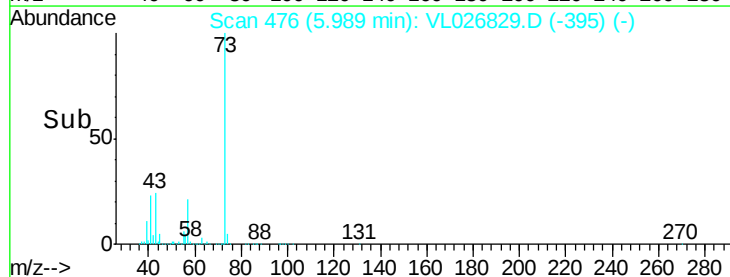
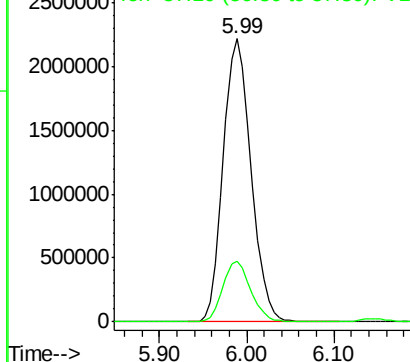
Ion Ratio Lower Upper

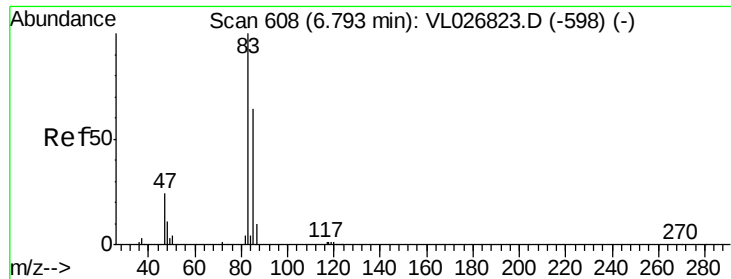
73 100

57 21.5 17.0 25.6



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





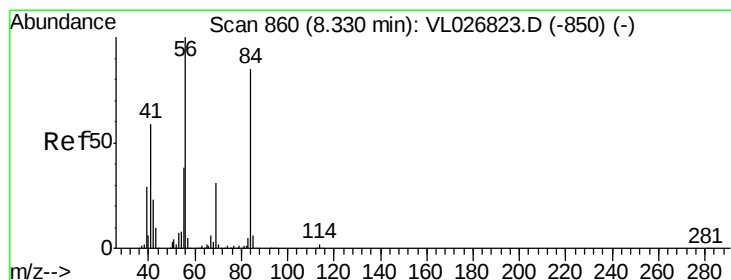
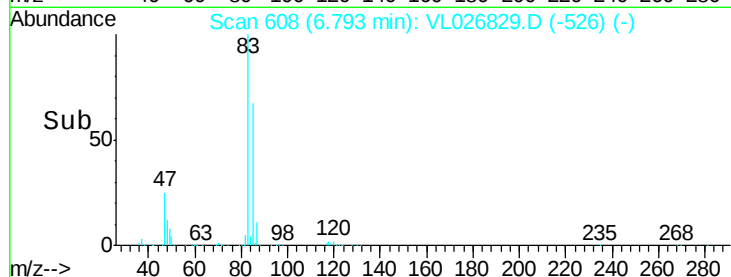
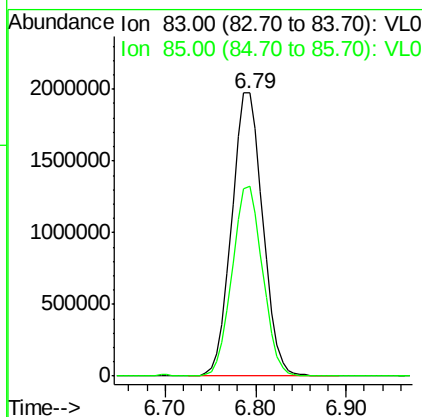
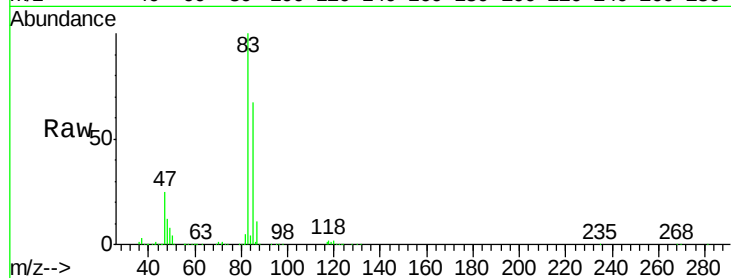
#29
Chloroform
Concen: 10.64 ppbv
RT: 6.79 min Scan# 608
Delta R.T. -0.00 min
Lab File: VL026829.D
Acq: 9 Feb 2016 20:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 4687332
Ion Ratio Lower Upper
83 100
85 67.0 51.5 77.3

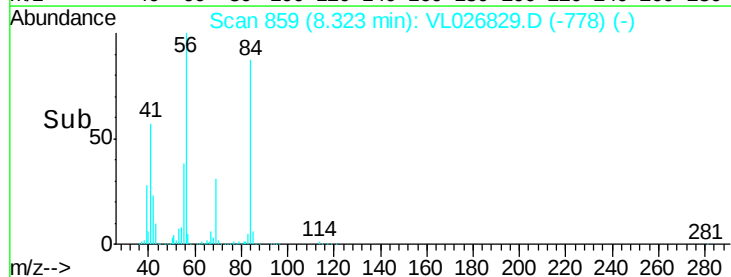
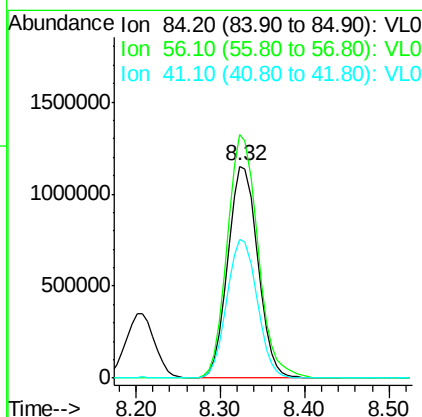
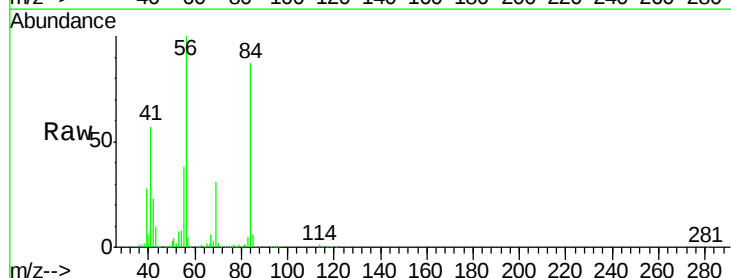
Manual Integrations
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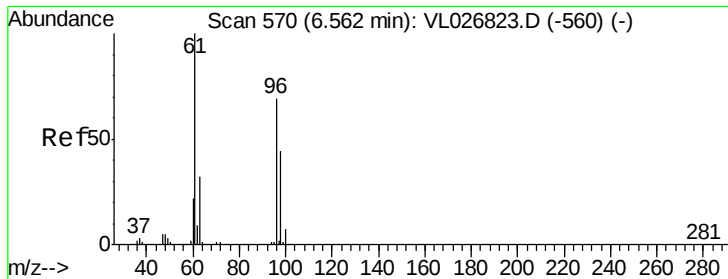
MMDadoda
2/11/2016 1:23:22 PM



#30
Cyclohexane
Concen: 13.58 ppbv
RT: 8.32 min Scan# 859
Delta R.T. -0.01 min
Lab File: VL026829.D
Acq: 9 Feb 2016 20:48

Tgt Ion: 84 Resp: 2755677
Ion Ratio Lower Upper
84 100
56 118.6 99.4 149.2
41 66.5 56.7 85.1





#31

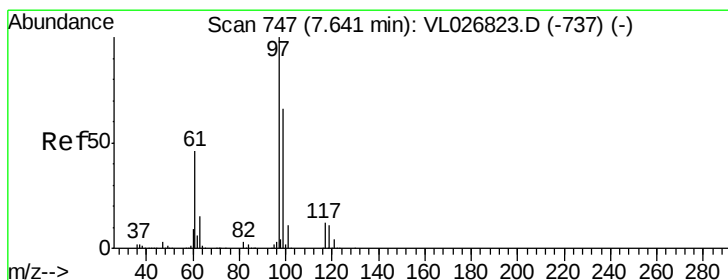
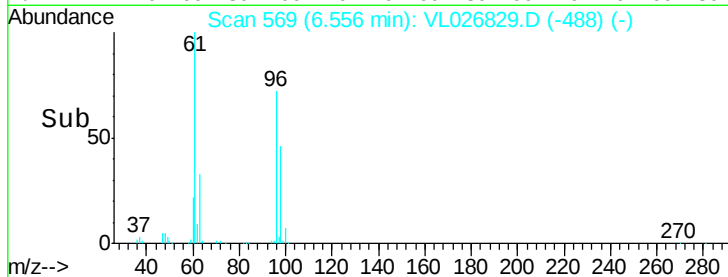
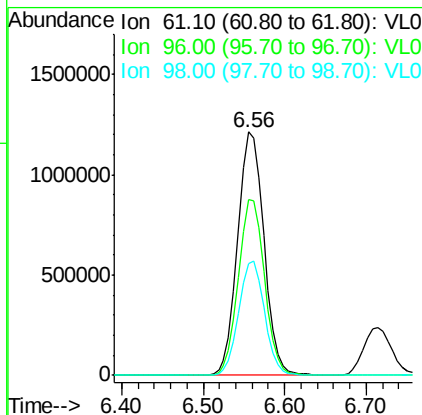
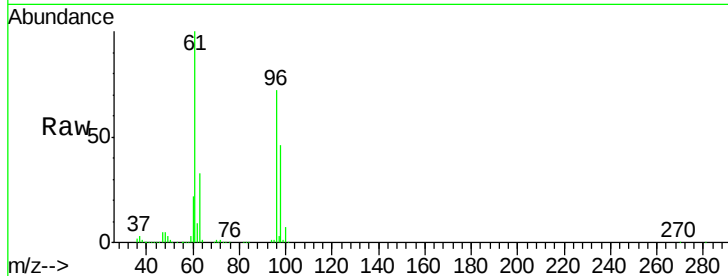
cis-1,2-Dichloroethene
 Concen: 12.72 ppbv
 RT: 6.56 min Scan# 569
 Delta R.T. -0.01 min
 Lab File: VL026829.D
 Acq: 9 Feb 2016 20:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
61	100		
96	72.0	55.2	82.8
98	46.1	35.2	52.8

Manual Integrations
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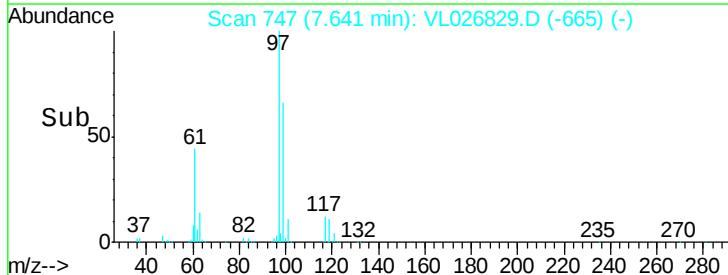
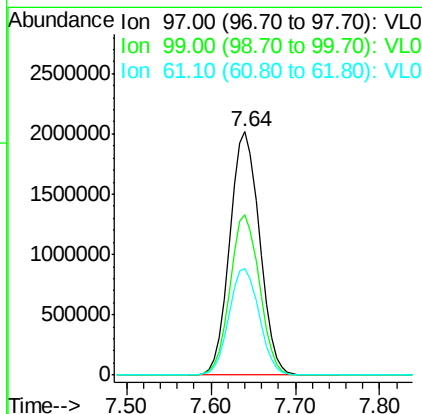
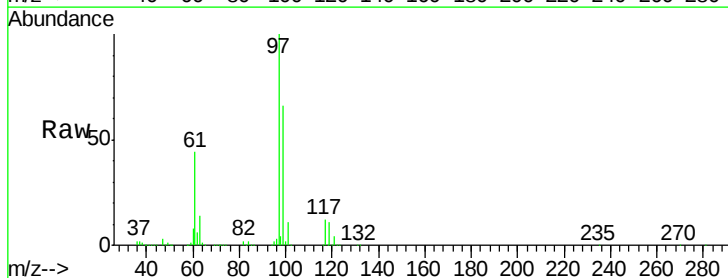
MMDadoda
 2/11/2016 1:23:22 PM

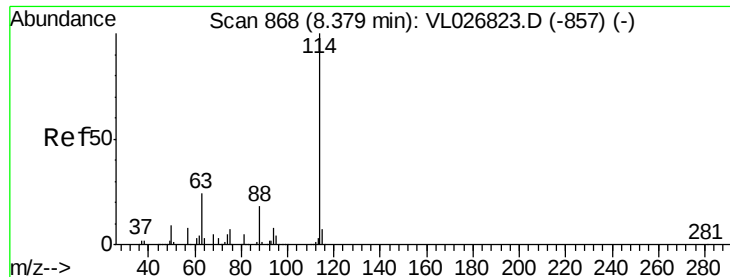


#32

1,1,1-Trichloroethane
 Concen: 9.63 ppbv
 RT: 7.64 min Scan# 747
 Delta R.T. -0.00 min
 Lab File: VL026829.D
 Acq: 9 Feb 2016 20:48

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.3	52.0	78.0
61	44.4	36.2	54.4





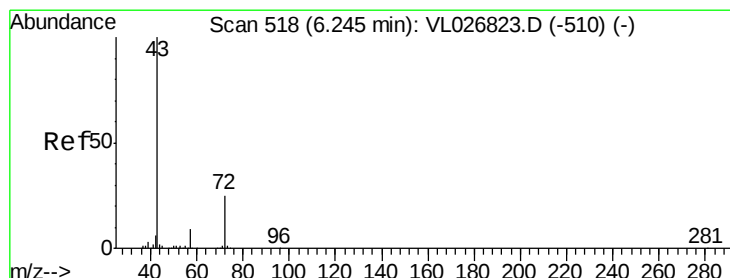
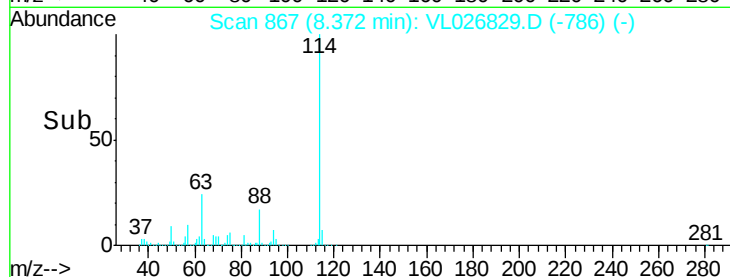
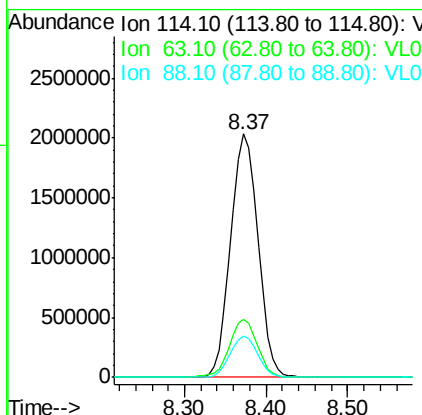
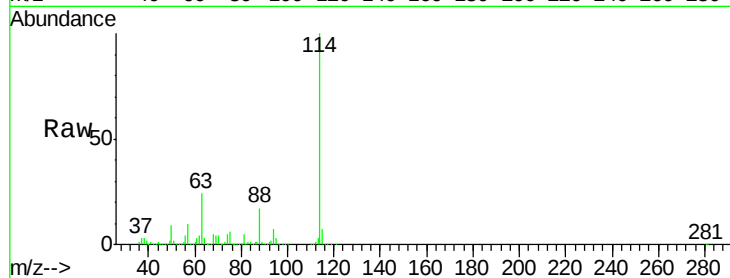
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 8.37 min Scan# 867
 Delta R.T. -0.01 min
 Lab File: VL026829.D
 Acq: 9 Feb 2016 20:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:114 Resp: 4721391
 Ion Ratio Lower Upper
 114 100
 63 24.3 19.7 29.5
 88 17.0 13.8 20.6

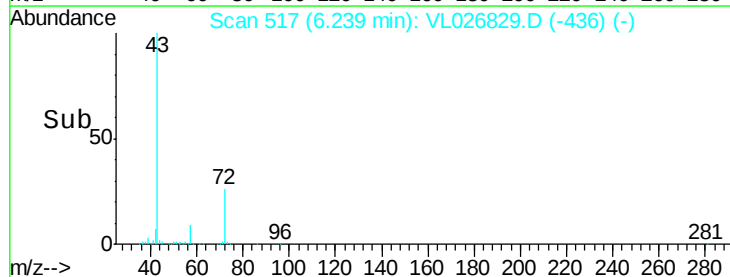
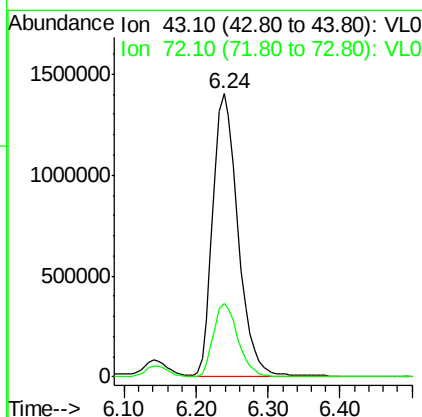
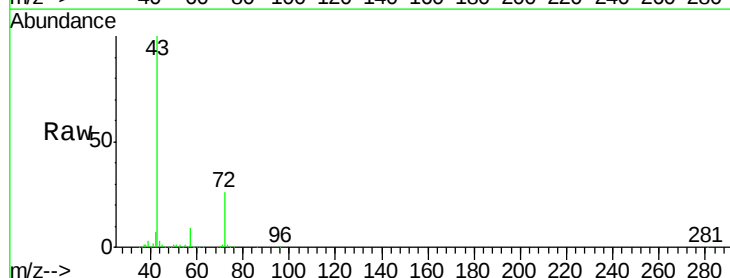
Manual Integrations
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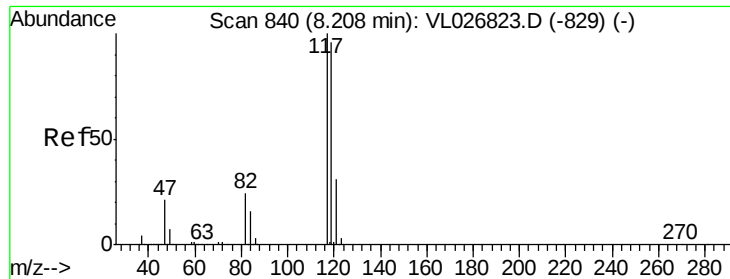
MMDadoda
 2/11/2016 1:23:22 PM



#34
 2-Butanone
 Concen: 15.47 ppbv
 RT: 6.24 min Scan# 517
 Delta R.T. -0.01 min
 Lab File: VL026829.D
 Acq: 9 Feb 2016 20:48

Tgt Ion: 43 Resp: 3397802
 Ion Ratio Lower Upper
 43 100
 72 25.7 19.8 29.8





#35

Carbon Tetrachloride

Concen: 11.43 ppbv

RT: 8.21 min Scan# 840

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 5358484

Ion Ratio Lower Upper

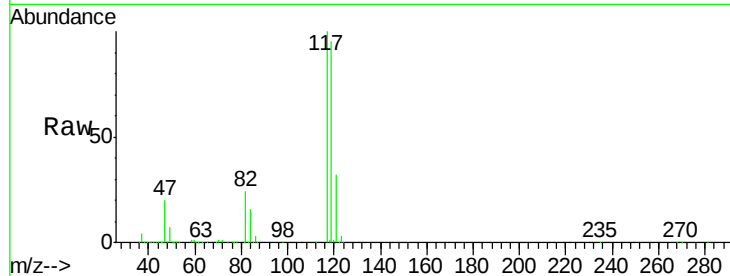
117 100

119 95.0 76.6 115.0

121 31.8 25.0 37.4

Manual Integrations
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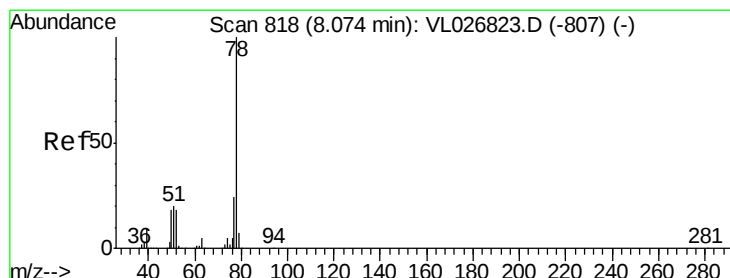
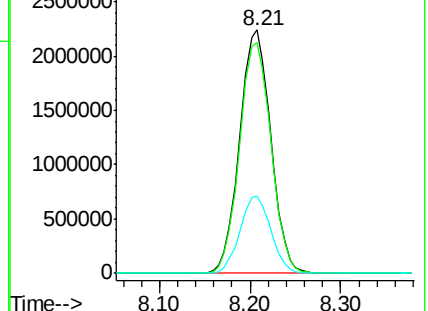
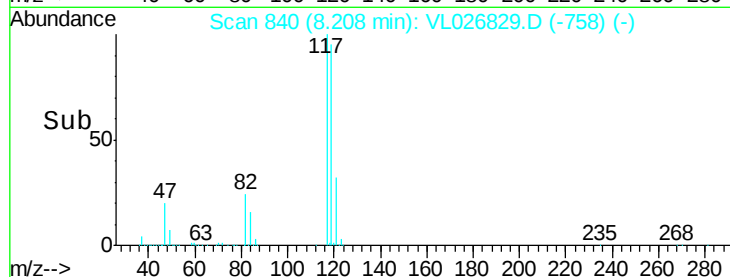
MMDadoda
2/11/2016 1:23:22 PM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 14.98 ppbv

RT: 8.07 min Scan# 817

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

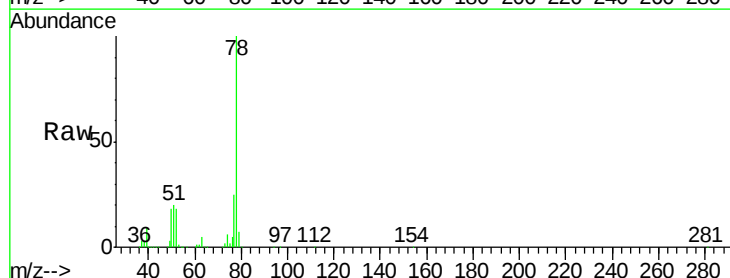
Tgt Ion: 78 Resp: 5930022

Ion Ratio Lower Upper

78 100

77 24.6 19.0 28.6

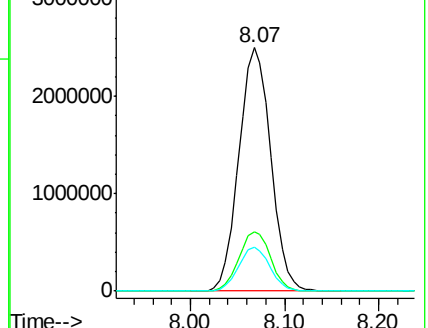
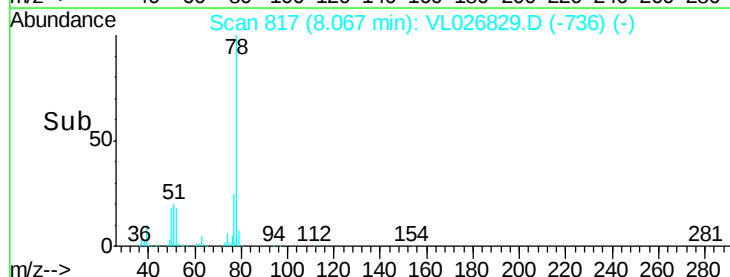
50 18.2 14.2 21.4

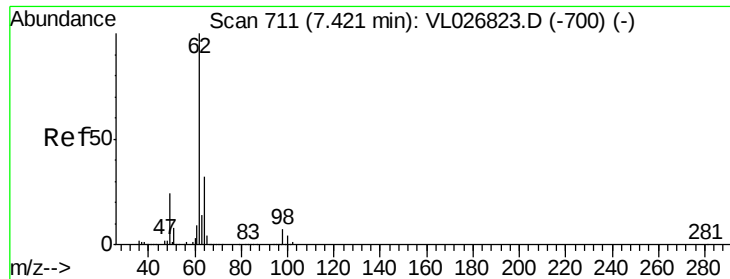


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





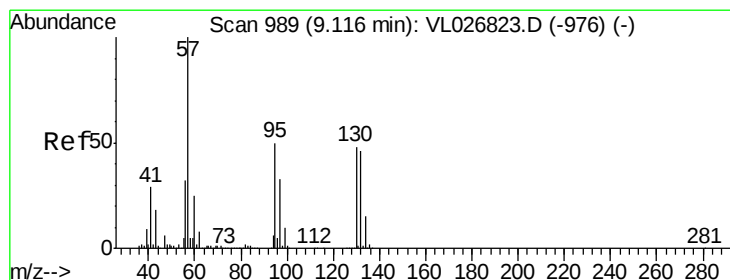
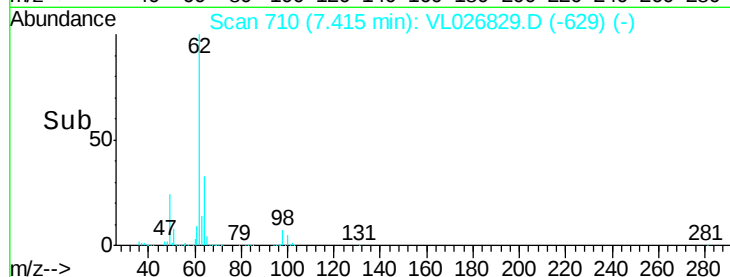
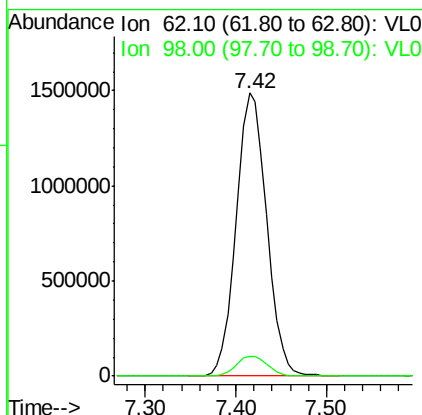
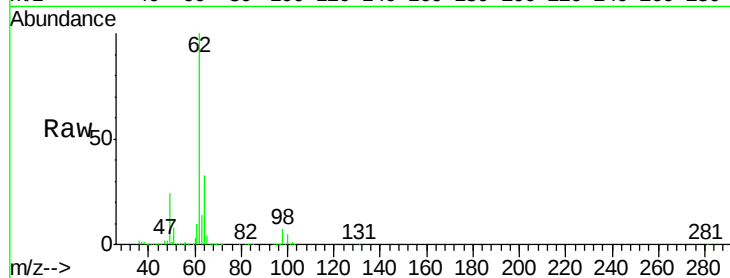
#37
 1,2-Dichloroethane
 Concen: 10.26 ppbv
 RT: 7.42 min Scan# 710
 Delta R.T. -0.01 min
 Lab File: VL026829.D
 Acq: 9 Feb 2016 20:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 62 Resp: 3491596
 Ion Ratio Lower Upper
 62 100
 98 7.3 5.4 8.2

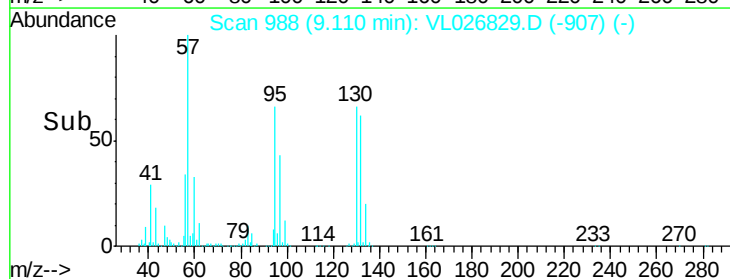
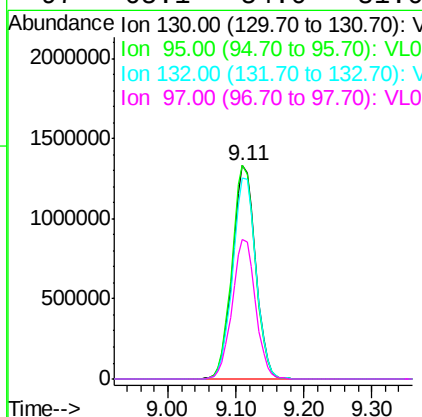
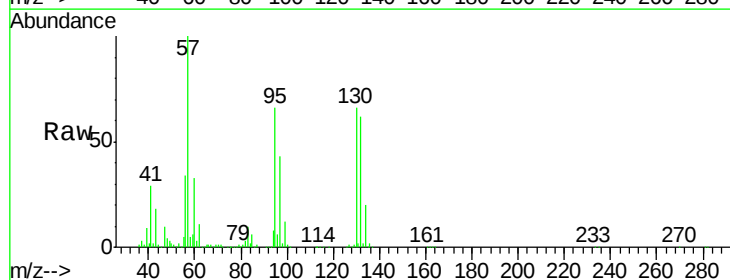
Manual Integrations
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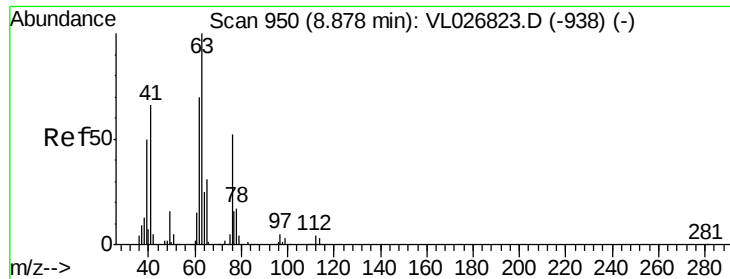
MMDadoda
 2/11/2016 1:23:22 PM



#38
 Trichloroethene
 Concen: 16.78 ppbv
 RT: 9.11 min Scan# 988
 Delta R.T. -0.01 min
 Lab File: VL026829.D
 Acq: 9 Feb 2016 20:48

Tgt Ion:130 Resp: 3138166
 Ion Ratio Lower Upper
 130 100
 95 100.0 83.0 124.6
 132 94.0 76.0 114.0
 97 65.1 54.0 81.0





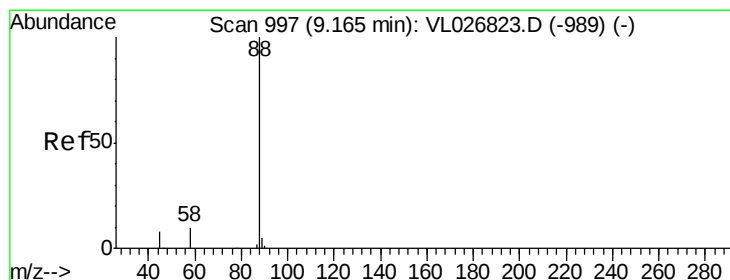
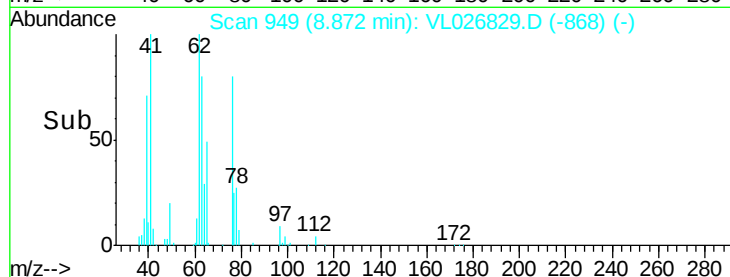
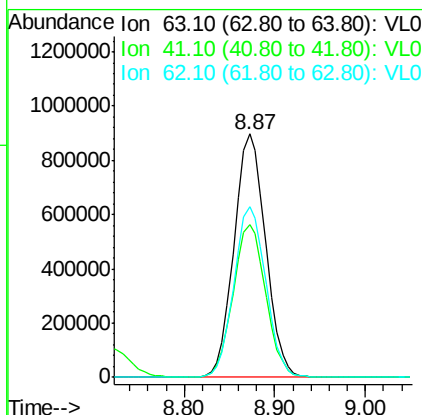
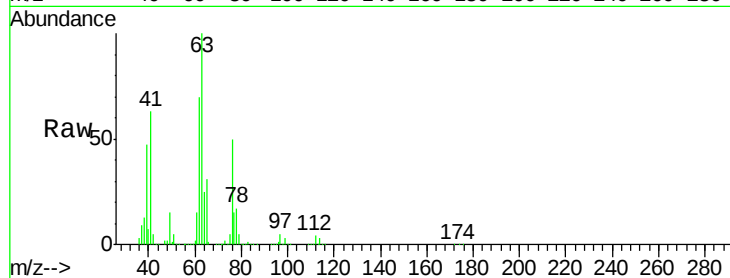
#39
 1,2-Dichloropropane
 Concen: 16.33 ppbv
 RT: 8.87 min Scan# 949
 Delta R.T. -0.01 min
 Lab File: VL026829.D
 Acq: 9 Feb 2016 20:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 63 Resp: 2172716
 Ion Ratio Lower Upper
 63 100
 41 62.4 53.2 79.8
 62 70.3 56.0 84.0

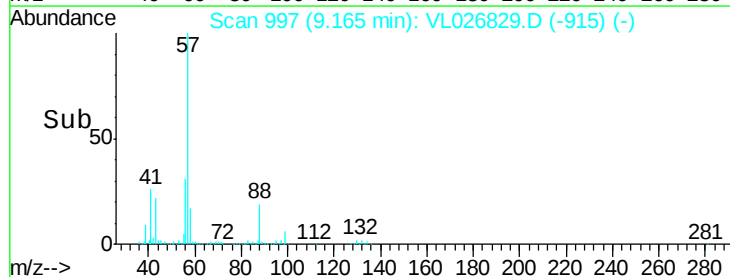
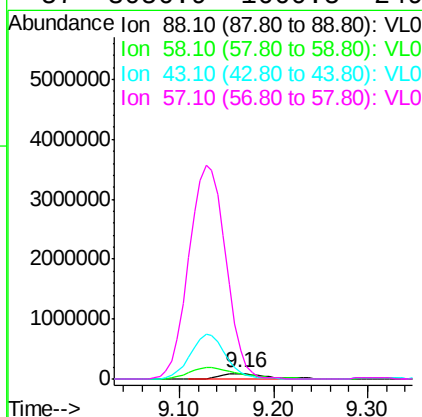
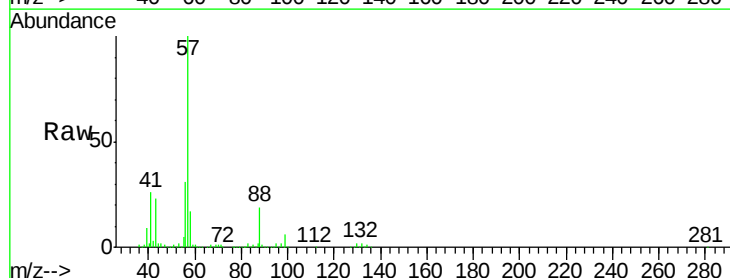
Manual Integrations
 APPROVED

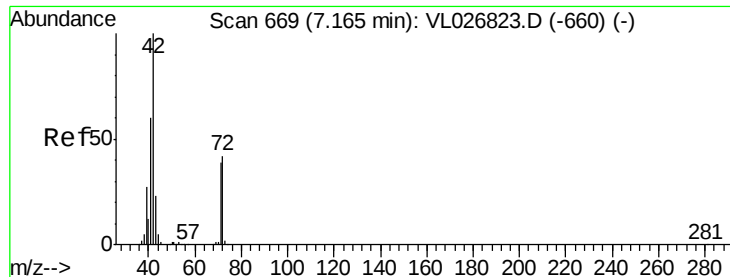
MMDadoda
 2/11/2016 1:23:22 PM



#40
 1,4-Dioxane
 Concen: 9.77 ppbv
 RT: 9.16 min Scan# 997
 Delta R.T. -0.00 min
 Lab File: VL026829.D
 Acq: 9 Feb 2016 20:48

Tgt Ion: 88 Resp: 318280
 Ion Ratio Lower Upper
 88 100
 58 221.9 135.6 203.4#
 43 617.4 332.3 498.5#
 57 3056.9 1660.5 2490.7#





#41

Tetrahydrofuran

Concen: 19.27 ppbv

RT: 7.16 min Scan# 668

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 42 Resp: 1912079

Ion Ratio Lower Upper

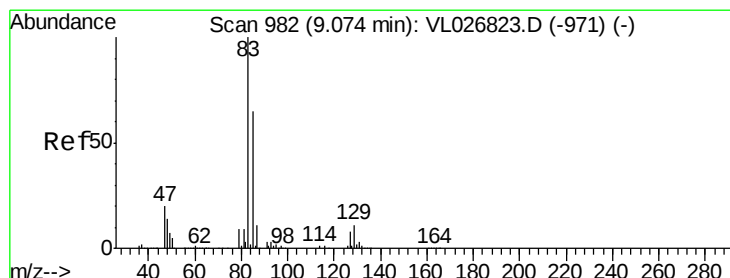
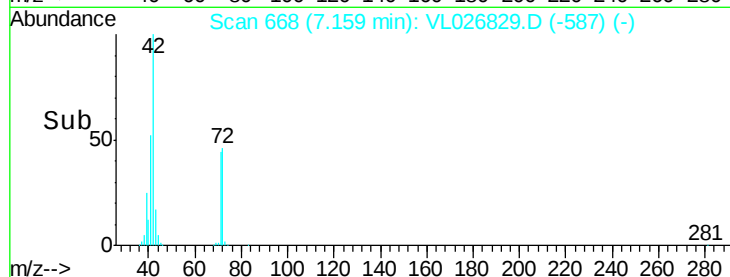
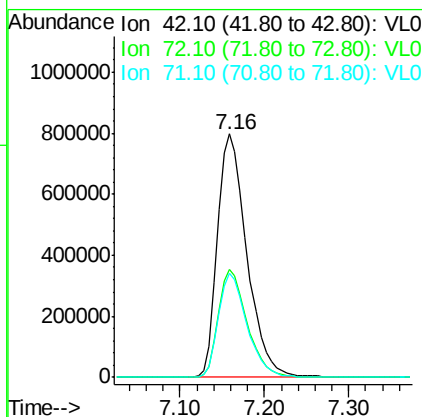
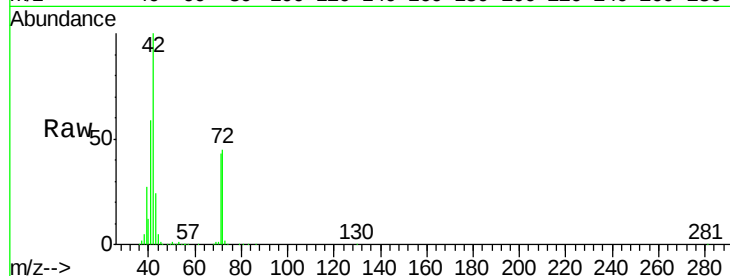
42 100

72 43.7 33.4 50.0

71 41.7 32.1 48.1

Manual Integrations
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MMDadoda
2/11/2016 1:23:22 PM



#42

Bromodichloromethane

Concen: 11.65 ppbv

RT: 9.07 min Scan# 982

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

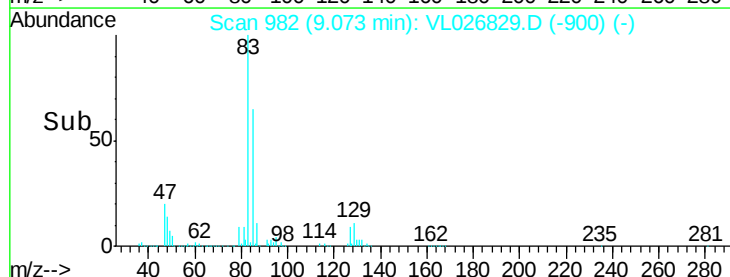
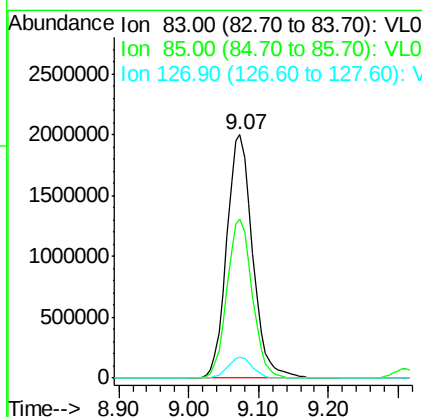
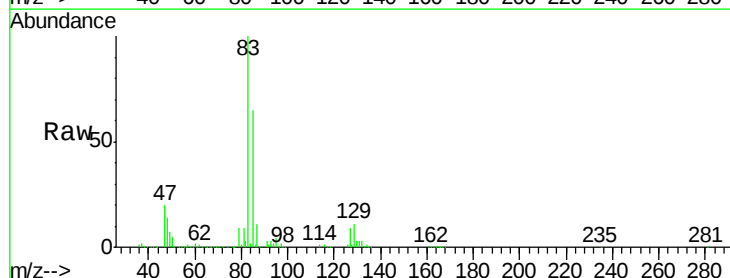
Tgt Ion: 83 Resp: 5140616

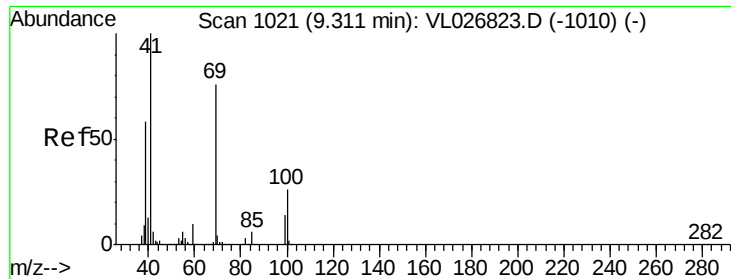
Ion Ratio Lower Upper

83 100

85 65.2 51.8 77.6

127 8.7 6.4 9.6





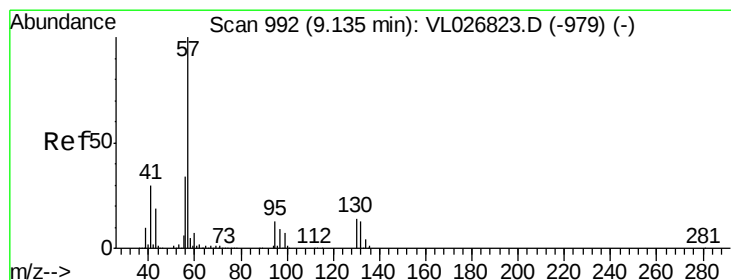
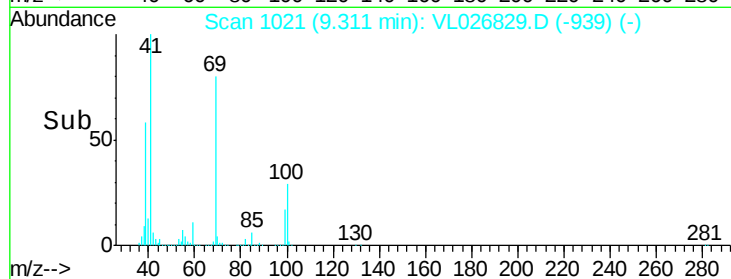
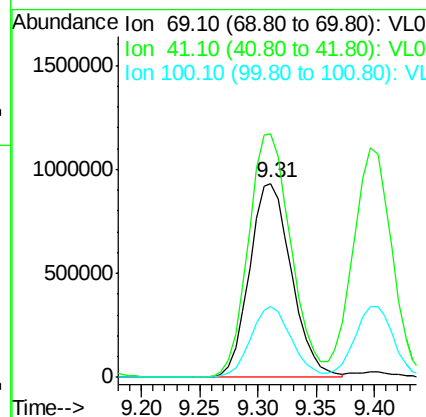
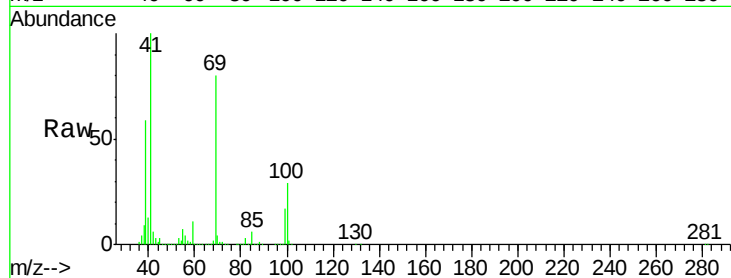
#43
Methvl Methacrilate
Concen: 15.42 ppbv
RT: 9.31 min Scan# 1021
Delta R.T. -0.00 min
Lab File: VL026829.D
Acq: 9 Feb 2016 20:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 69 Resp: 2348967
Ion Ratio Lower Upper
69 100
41 126.3 106.5 159.7
100 35.2 27.2 40.8

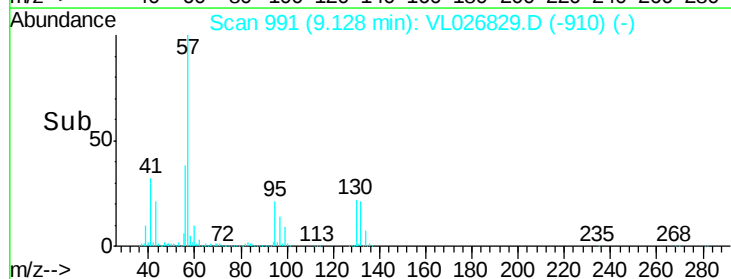
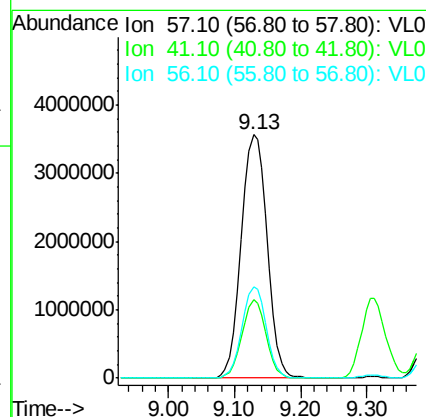
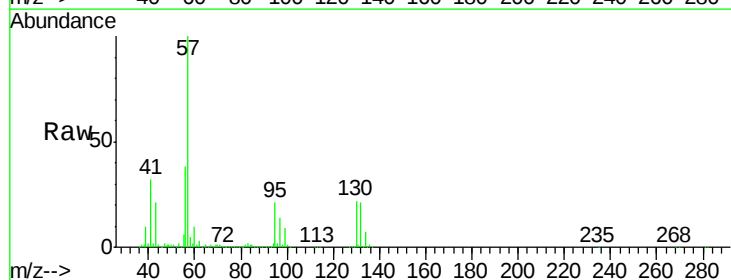
Manual Integrations
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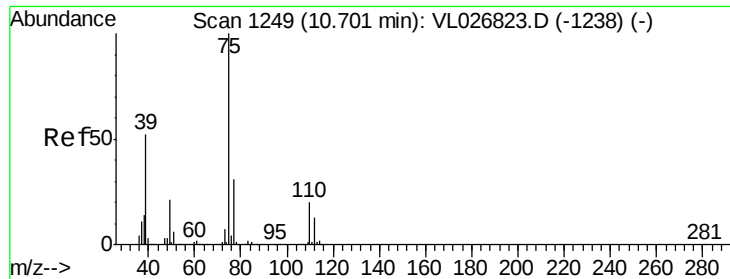
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 15.46 ppbv
RT: 9.13 min Scan# 991
Delta R.T. -0.01 min
Lab File: VL026829.D
Acq: 9 Feb 2016 20:48

Tgt Ion: 57 Resp: 9729055
Ion Ratio Lower Upper
57 100
41 29.8 23.2 34.8
56 35.0 26.2 39.4





#45

t-1,3-Dichloropropene

Concen: 12.94 ppbv

RT: 10.70 min Scan# 1249

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 75 Resp: 3411987

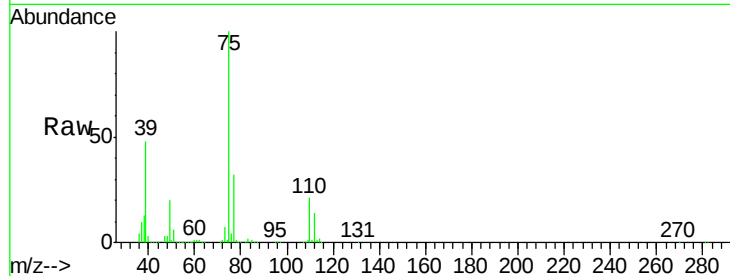
Ion Ratio Lower Upper

75 100

77 31.6 25.0 37.6

Manual Integrations
APPROVED

MMDadoda
2/11/2016 1:23:22 PM



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

10.70

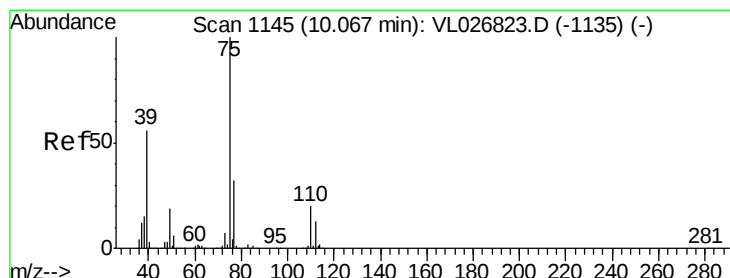
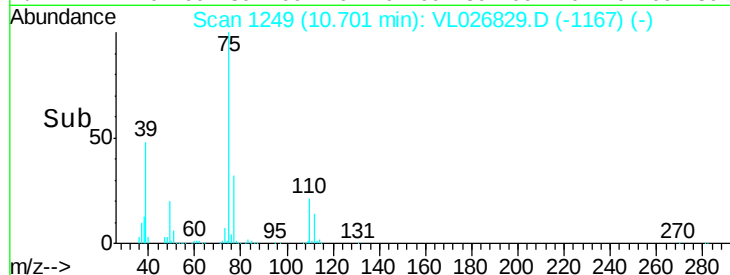
1500000

1000000

500000

0

Time-->



#46

cis-1,3-Dichloropropene

Concen: 14.28 ppbv

RT: 10.07 min Scan# 1145

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

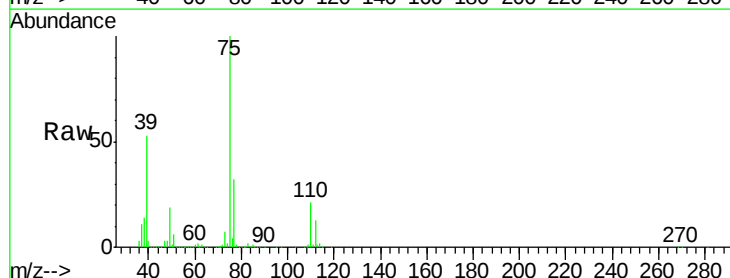
Tgt Ion: 75 Resp: 4030792

Ion Ratio Lower Upper

75 100

39 53.0 45.0 67.6

77 31.9 25.2 37.8



Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0

2000000

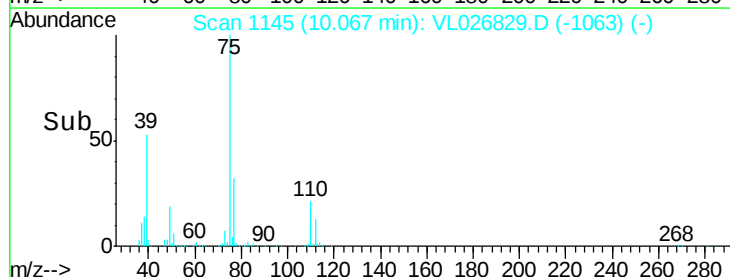
1500000

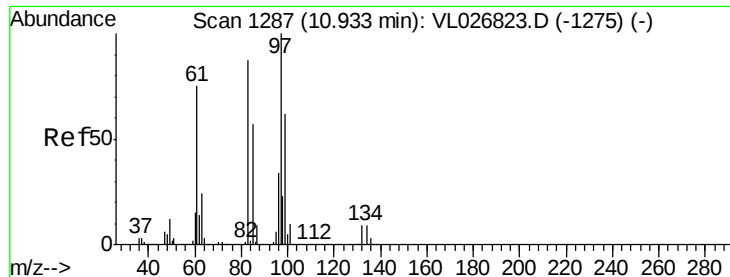
1000000

500000

0

Time-->





#47
 1,1,2-Trichloroethane
 Concen: 12.34 ppbv
 RT: 10.93 min Scan# 1286
 Delta R.T. -0.01 min
 Lab File: VL026829.D
 Acq: 9 Feb 2016 20:48

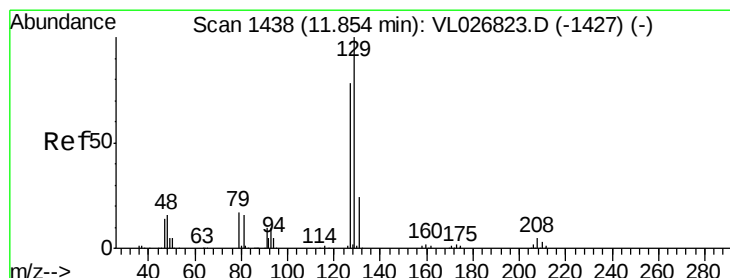
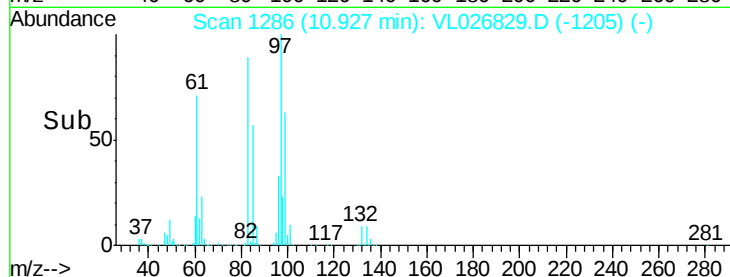
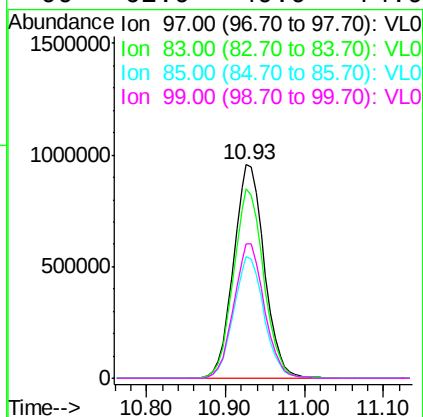
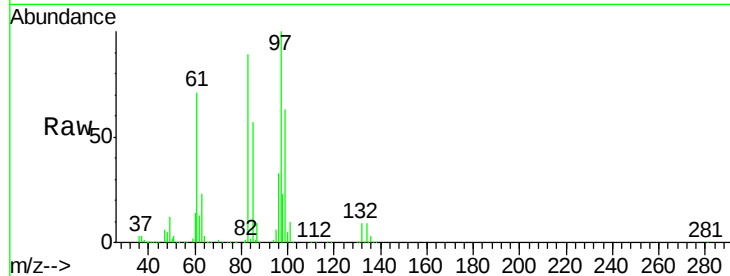
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 97 Resp: 2596670

Ion	Ratio	Lower	Upper
97	100		
83	88.5	69.7	104.5
85	56.8	45.3	67.9
99	62.9	49.9	74.9

Manual Integrations
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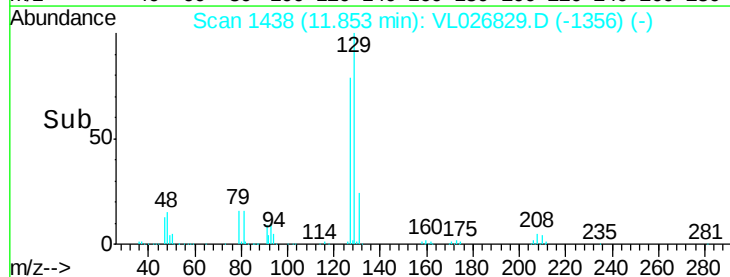
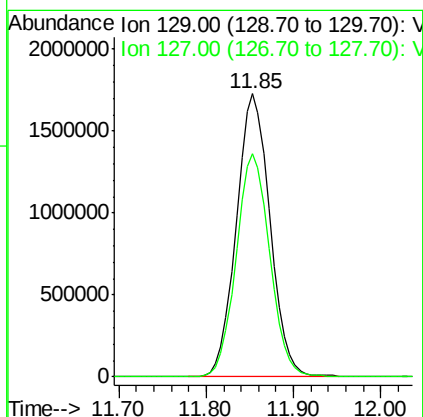
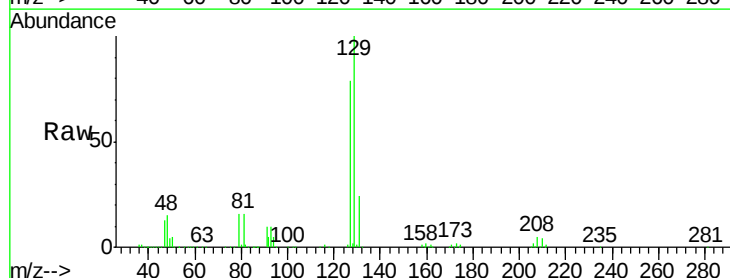
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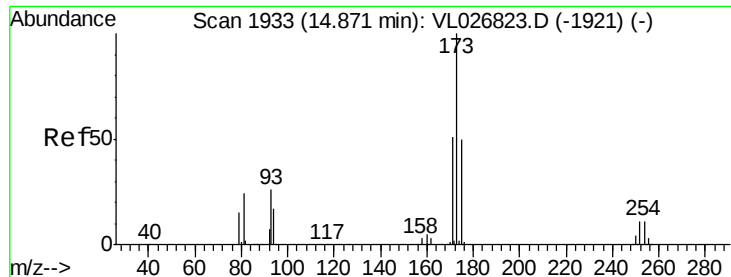


#48
 Dibromochloromethane
 Concen: 11.68 ppbv
 RT: 11.85 min Scan# 1438
 Delta R.T. -0.00 min
 Lab File: VL026829.D
 Acq: 9 Feb 2016 20:48

Tgt Ion: 129 Resp: 4629839

Ion	Ratio	Lower	Upper
129	100		
127	79.2	39.6	119.0





#49

Bromoform

Concen: 11.17 ppbv

RT: 14.87 min Scan# 1933

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:173 Resp: 3800676

Ion Ratio Lower Upper

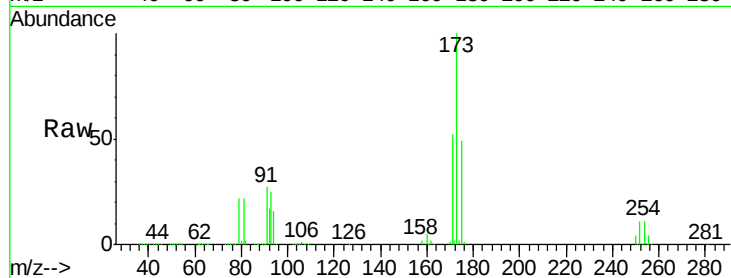
173 100

175 49.3 39.2 58.8

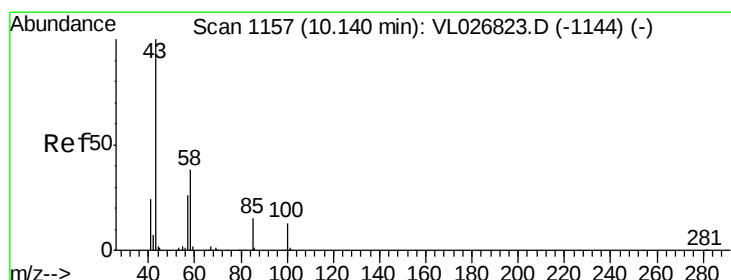
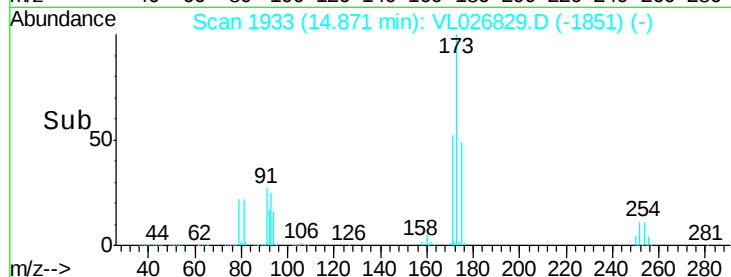
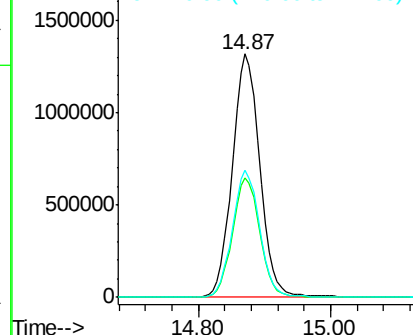
171 52.1 41.4 62.0

Manual Integrations
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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: 15.15 ppbv

RT: 10.13 min Scan# 1156

Delta R.T. -0.01 min

Lab File: VL026829.D

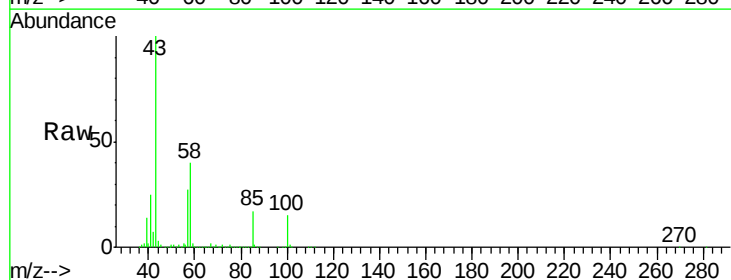
Acq: 9 Feb 2016 20:48

Tgt Ion: 43 Resp: 4627742

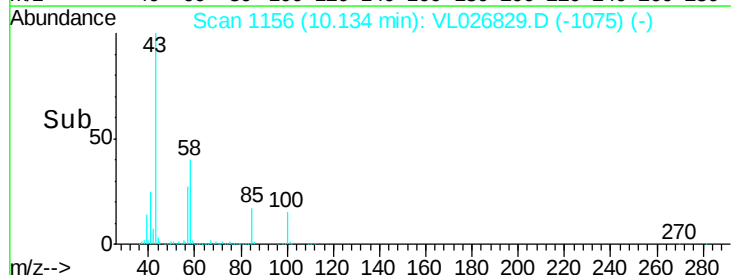
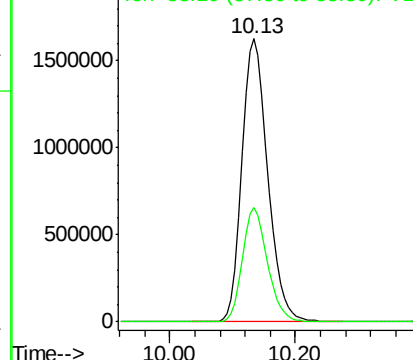
Ion Ratio Lower Upper

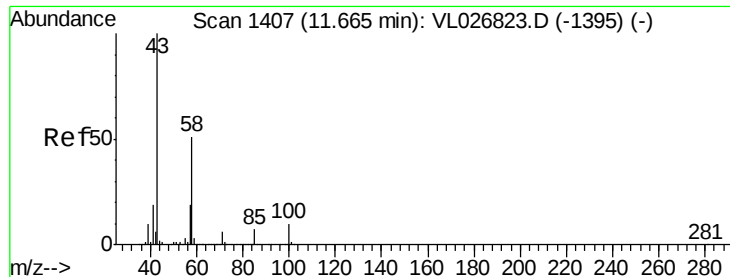
43 100

58 39.2 30.3 45.5



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





#51

2-Hexanone

Concen: 14.45 ppbv

RT: 11.66 min Scan# 1407

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 4246997

Ion Ratio Lower Upper

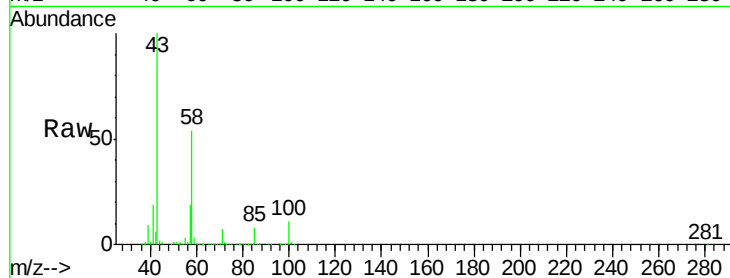
43 100

58 52.9 40.4 60.6

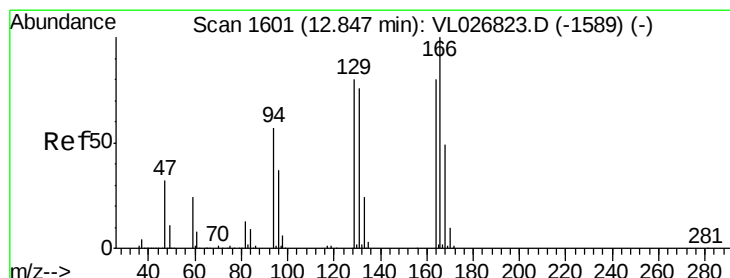
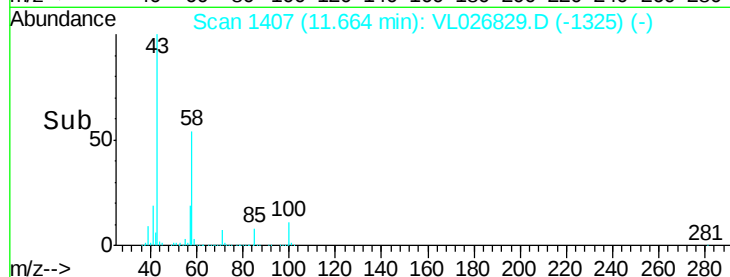
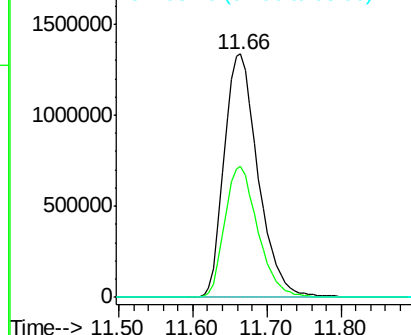
98 0.2 0.2 0.4#

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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 12.66 ppbv

RT: 12.84 min Scan# 1600

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Tgt Ion: 164 Resp: 2814430

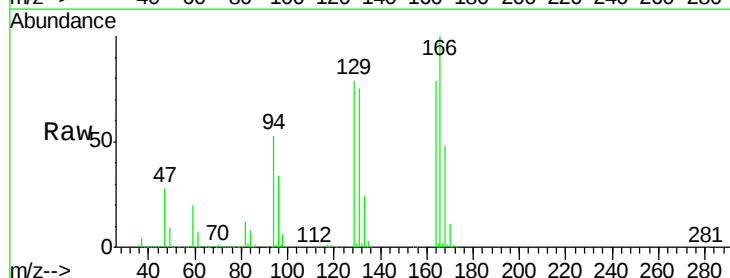
Ion Ratio Lower Upper

164 100

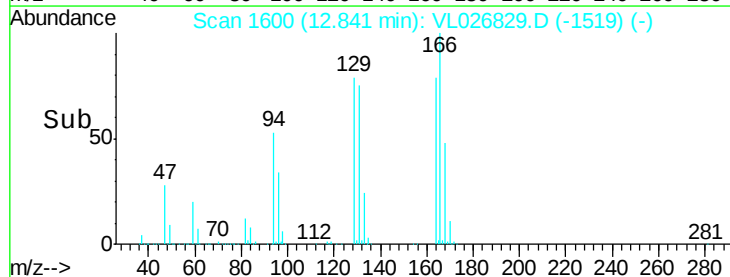
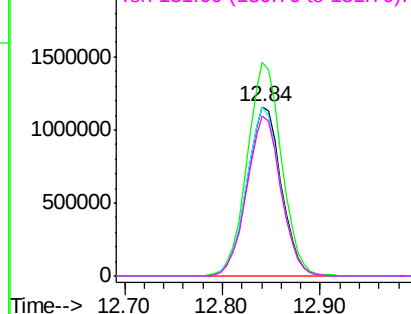
166 126.4 100.3 150.5

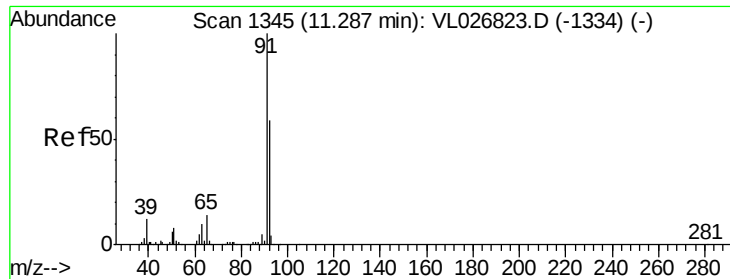
129 99.7 80.0 120.0

131 94.4 76.7 115.1



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 12.79 ppbv

RT: 11.29 min Scan# 1345

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 7435648

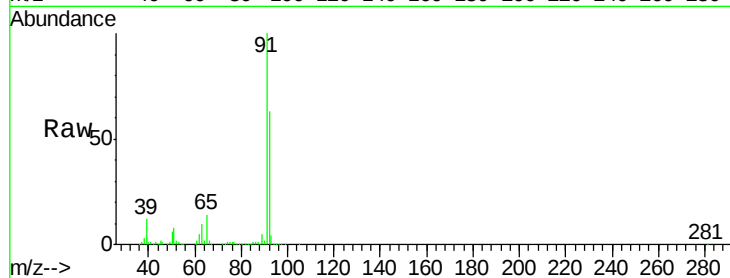
Ion Ratio Lower Upper

91 100

92 60.9 47.3 70.9

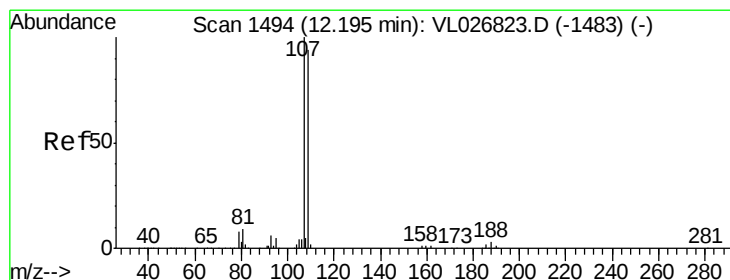
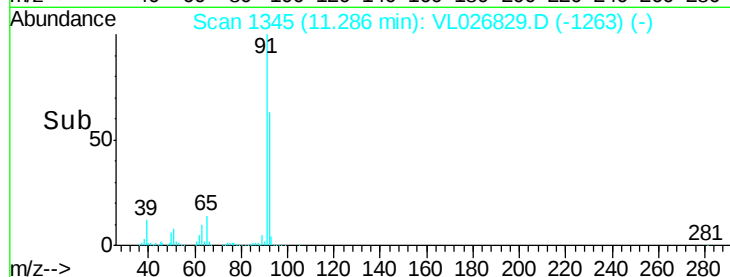
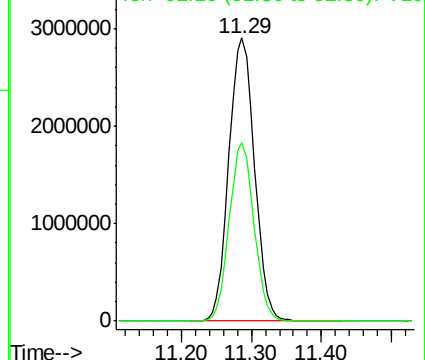
Manual Integrations
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 11.28 ppbv

RT: 12.19 min Scan# 1494

Delta R.T. -0.00 min

Lab File: VL026829.D

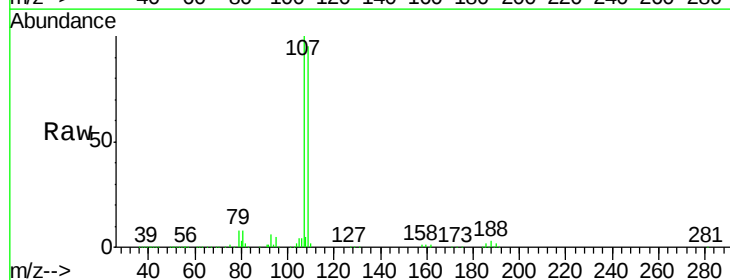
Acq: 9 Feb 2016 20:48

Tgt Ion: 107 Resp: 4019754

Ion Ratio Lower Upper

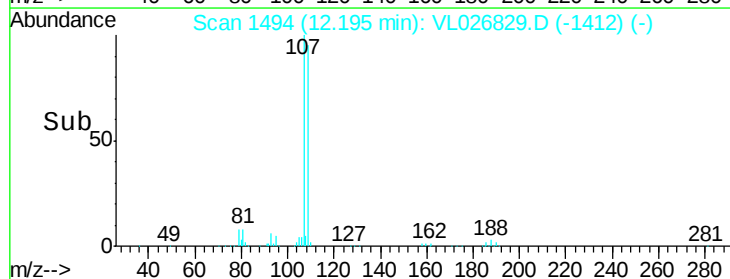
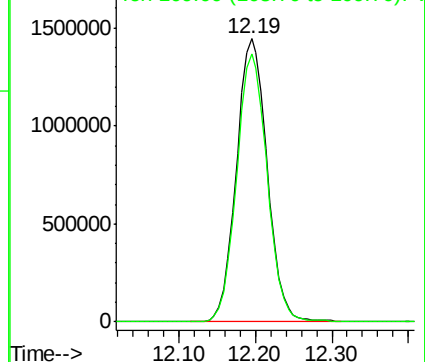
107 100

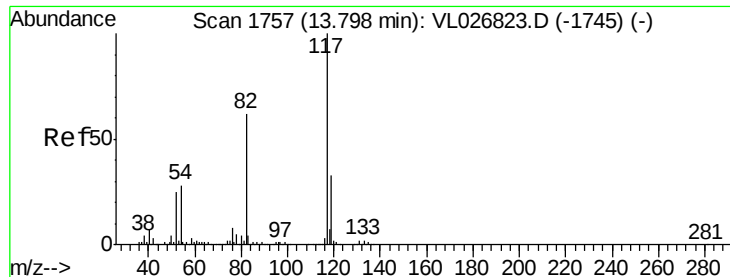
109 94.9 75.0 112.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





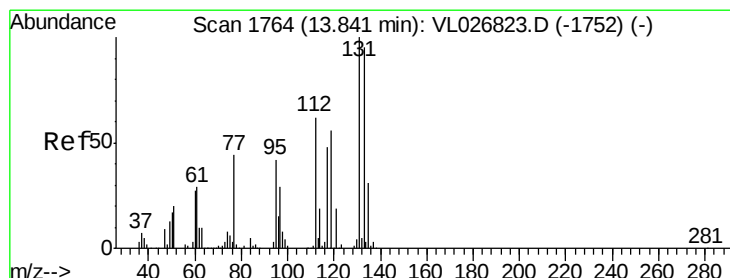
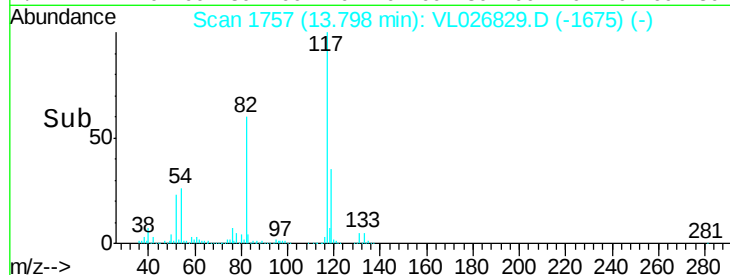
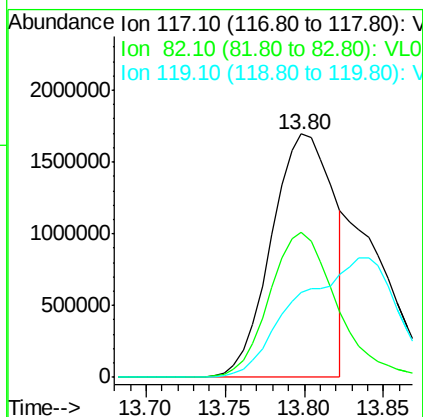
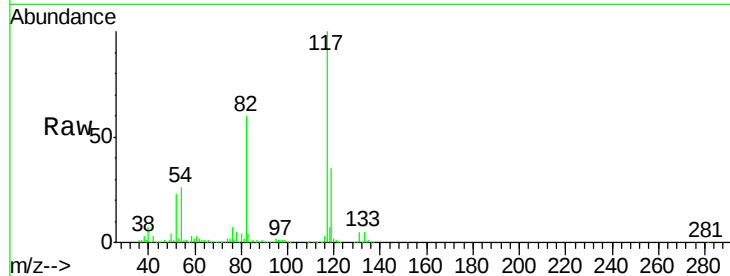
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 13.80 min Scan# 1757
Delta R.T. -0.00 min
Lab File: VL026829.D
Acq: 9 Feb 2016 20:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:117 Resp: 4618972
Ion Ratio Lower Upper
117 100
82 65.4 51.9 77.9
119 79.5 48.5 72.7#

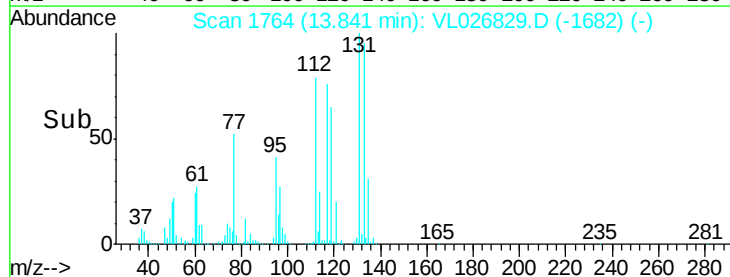
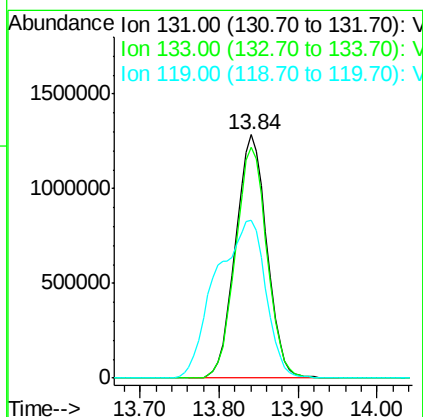
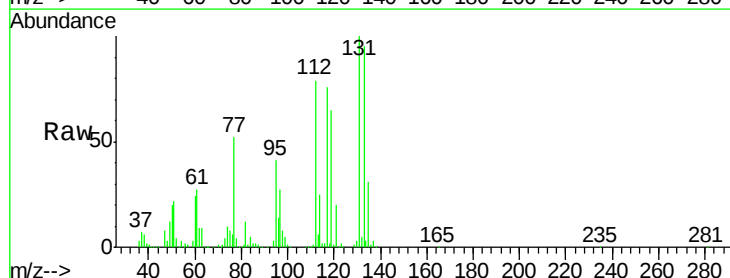
Manual Integrations
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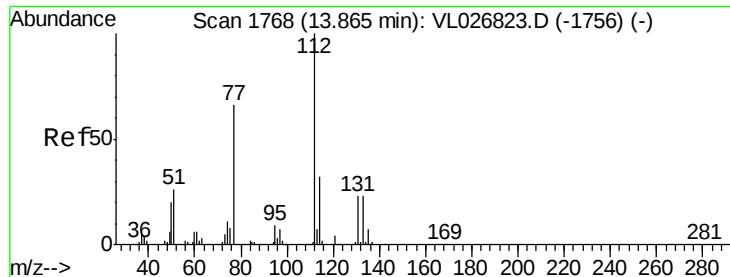
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2/11/2016 1:23:22 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 14.59 ppbv
RT: 13.84 min Scan# 1764
Delta R.T. -0.00 min
Lab File: VL026829.D
Acq: 9 Feb 2016 20:48

Tgt Ion:131 Resp: 3559766
Ion Ratio Lower Upper
131 100
133 95.4 76.4 114.6
119 103.2 99.8 149.8





#57

Chlorobenzene

Concen: 13.89 ppbv

RT: 13.87 min Scan# 1768

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:112 Resp: 6490497

Ion Ratio Lower Upper

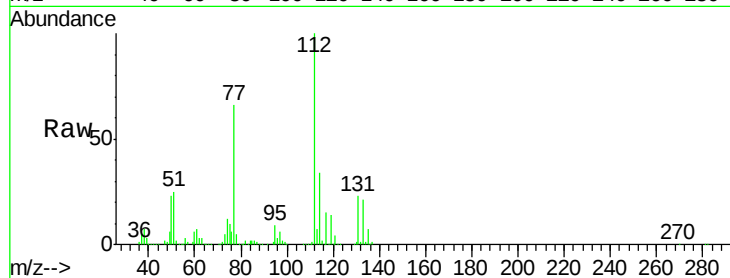
112 100

77 65.8 53.3 79.9

114 33.8 28.9 35.3

Manual Integrations
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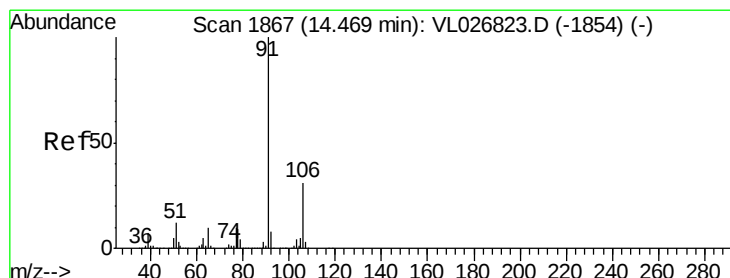
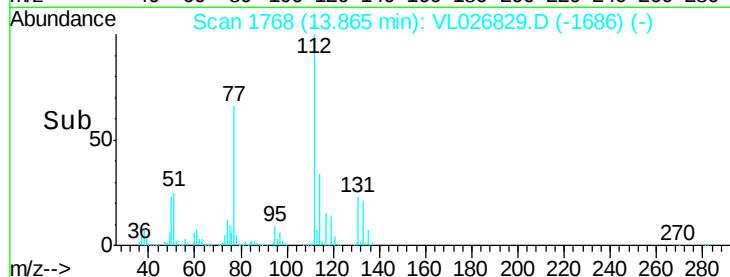
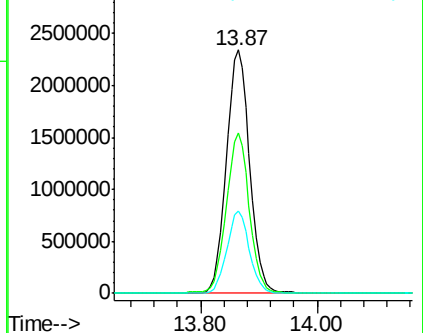
MMDadoda
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 12.82 ppbv

RT: 14.46 min Scan# 1866

Delta R.T. -0.01 min

Lab File: VL026829.D

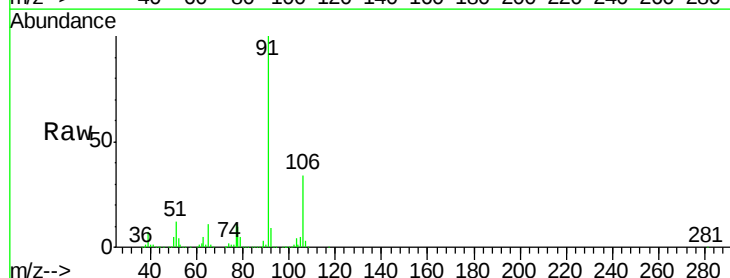
Acq: 9 Feb 2016 20:48

Tgt Ion: 91 Resp: 9702756

Ion Ratio Lower Upper

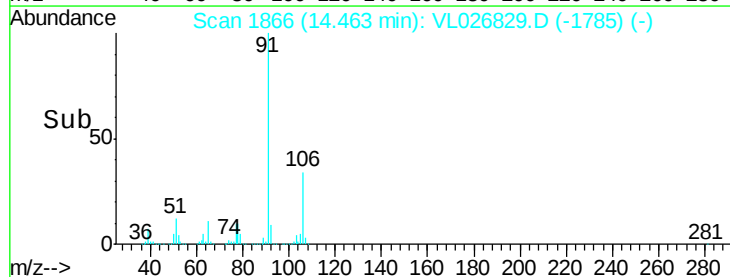
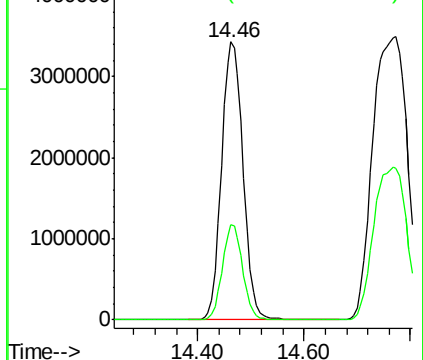
91 100

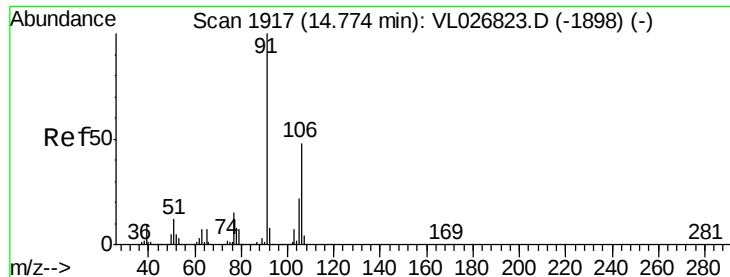
106 34.1 24.9 37.3



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





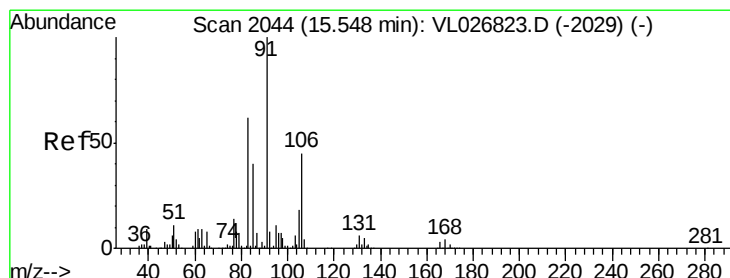
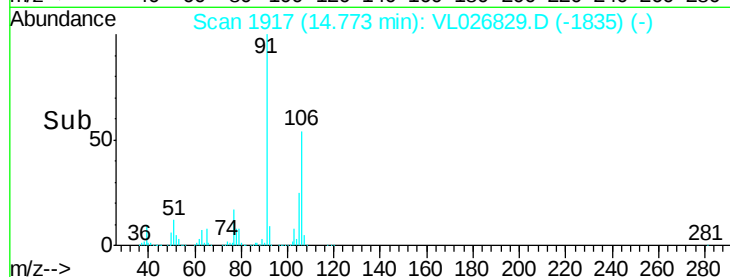
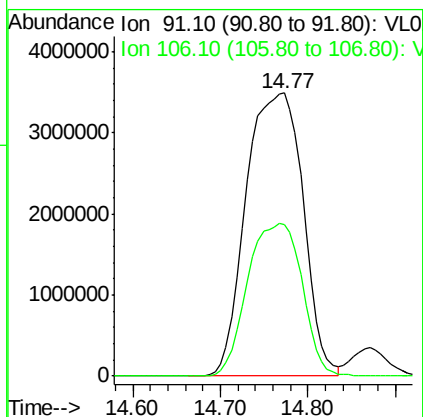
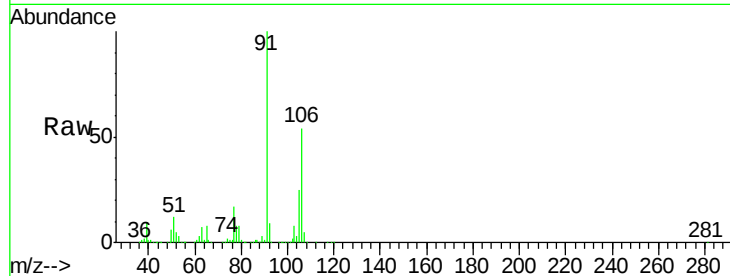
#59
m/p-Xylene
Concen: 23.83 ppbv
RT: 14.77 min Scan# 1917
Delta R.T. -0.00 min
Lab File: VL026829.D
Acq: 9 Feb 2016 20:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 91 Resp:15792157
Ion Ratio Lower Upper
91 100
106 51.9 38.2 57.2

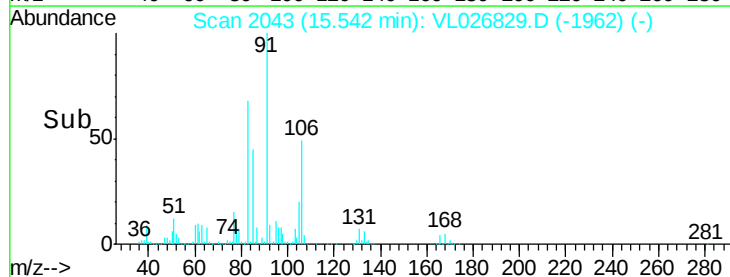
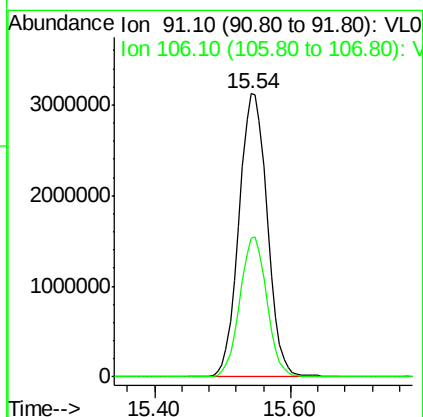
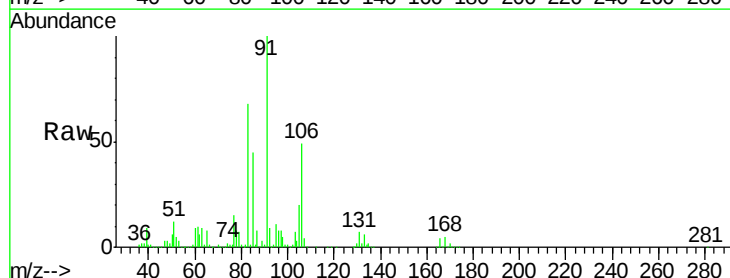
Manual Integrations
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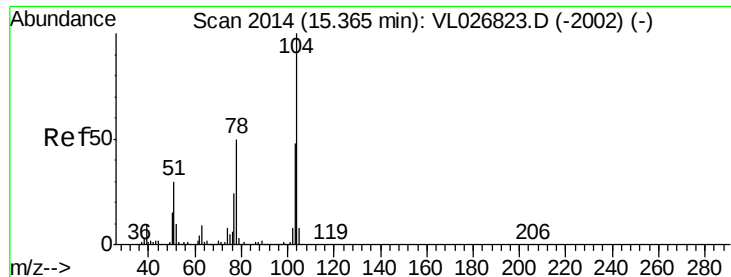
MMDadoda
2/11/2016 1:23:22 PM



#60
o-Xylene
Concen: 12.35 ppbv
RT: 15.54 min Scan# 2043
Delta R.T. -0.01 min
Lab File: VL026829.D
Acq: 9 Feb 2016 20:48

Tgt Ion: 91 Resp: 9044195
Ion Ratio Lower Upper
91 100
106 47.2 22.3 66.8





#61

Stvrene

Concen: 13.61 ppbv

RT: 15.36 min Scan# 2014

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:104 Resp: 3584516

Ion Ratio Lower Upper

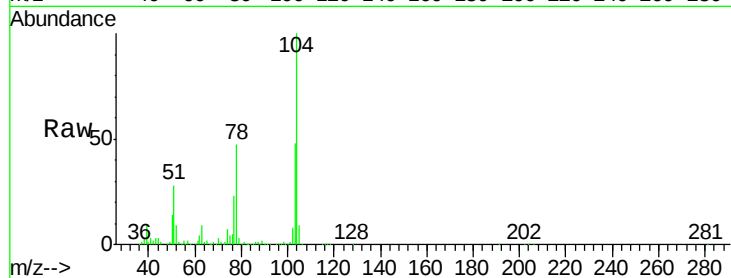
104 100

78 47.5 39.8 59.6

103 48.1 38.2 57.4

Manual Integrations
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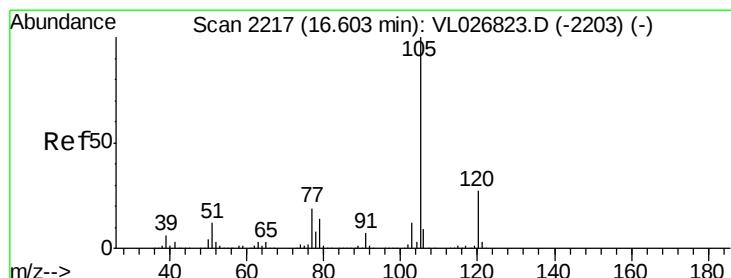
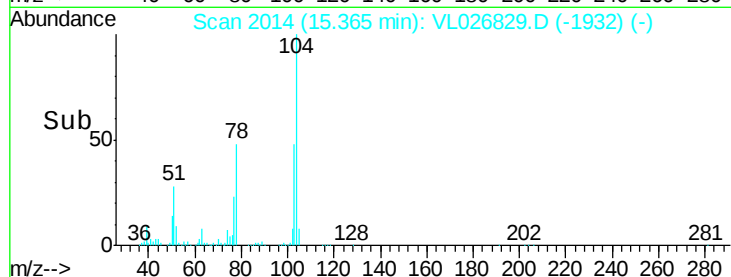
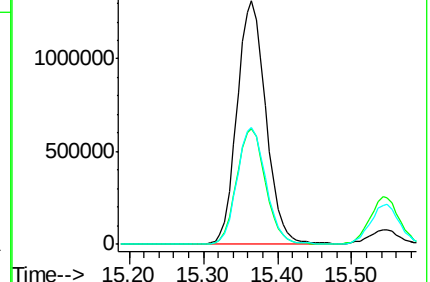
MMDadoda
2/11/2016 1:23:22 PM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 11.07 ppbv

RT: 16.60 min Scan# 2216

Delta R.T. -0.01 min

Lab File: VL026829.D

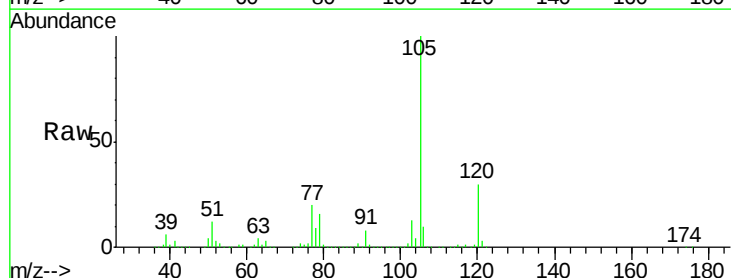
Acq: 9 Feb 2016 20:48

Tgt Ion:105 Resp:10575866

Ion Ratio Lower Upper

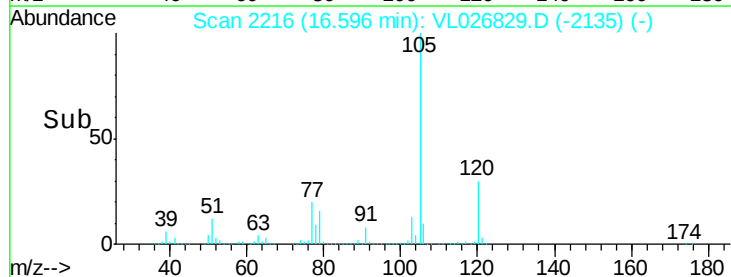
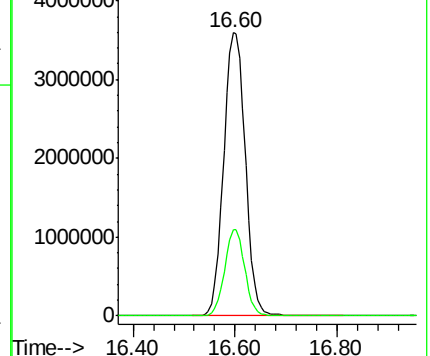
105 100

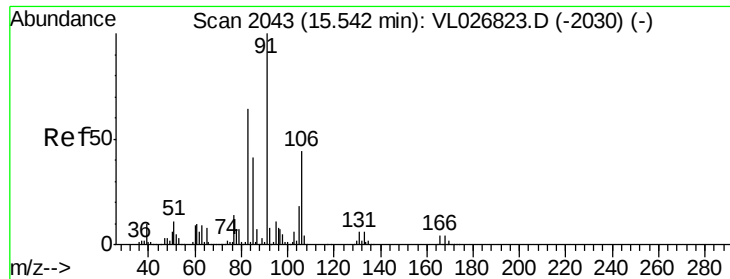
120 28.3 21.0 31.4



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: 12.97 ppbv

RT: 15.54 min Scan# 2043

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 83 Resp: 6130580

Ion Ratio Lower Upper

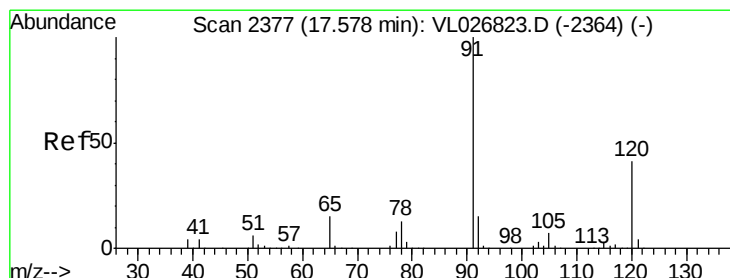
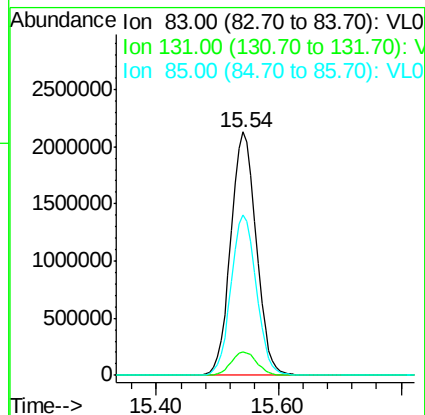
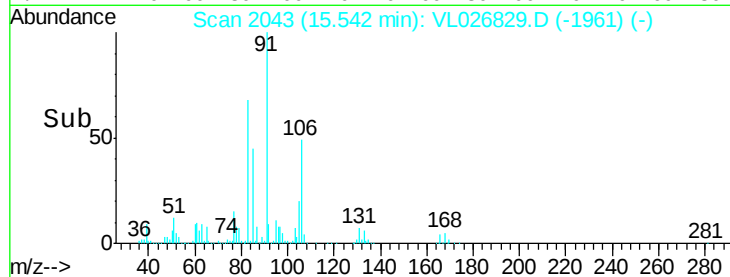
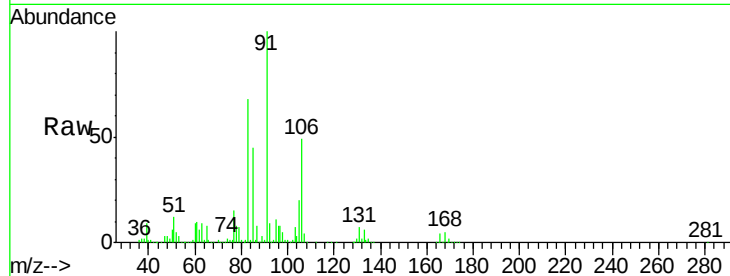
83 100

131 9.7 4.7 14.1

85 65.6 32.3 96.9

Manual Integrations
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#64

n-propylbenzene

Concen: 11.07 ppbv

RT: 17.58 min Scan# 2377

Delta R.T. -0.00 min

Lab File: VL026829.D

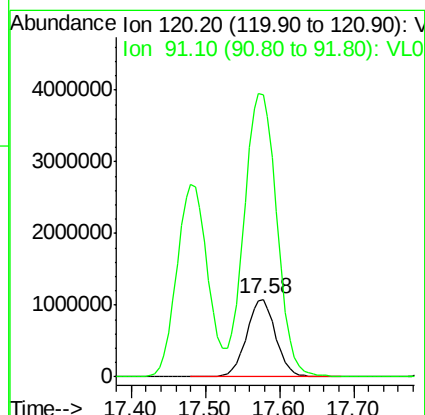
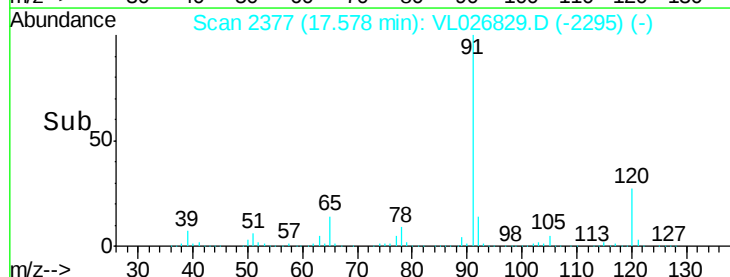
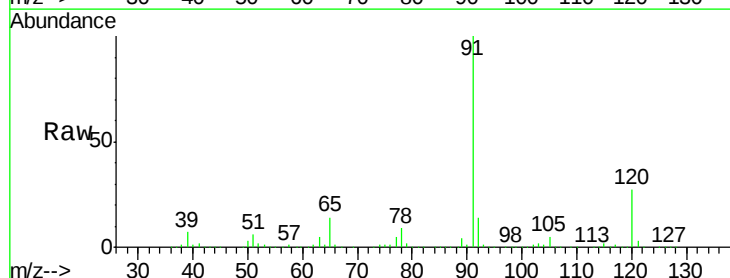
Acq: 9 Feb 2016 20:48

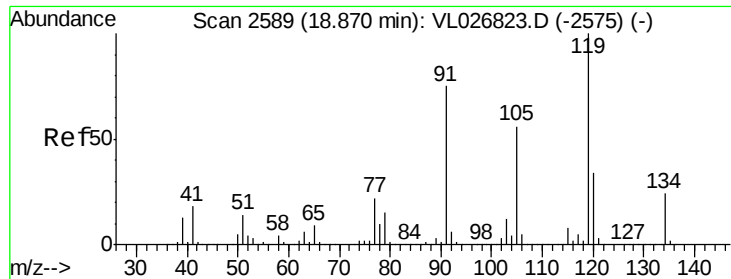
Tgt Ion:120 Resp: 2965041

Ion Ratio Lower Upper

120 100

91 418.6 363.0 544.6





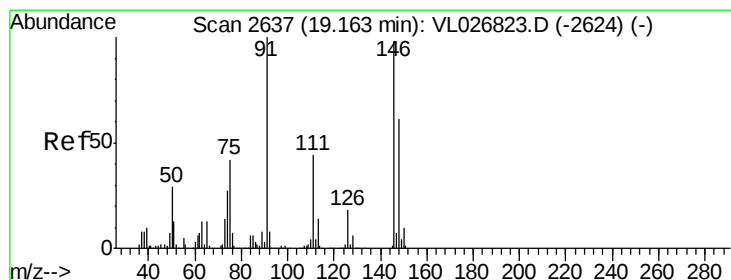
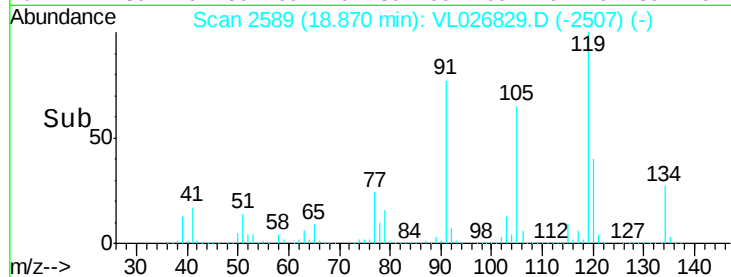
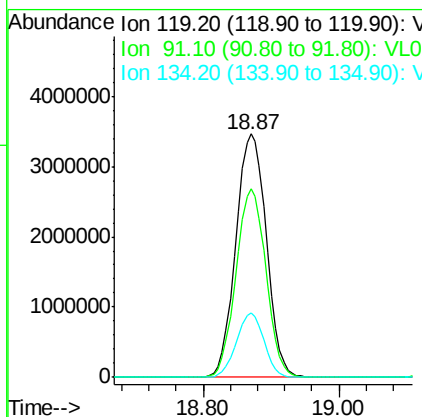
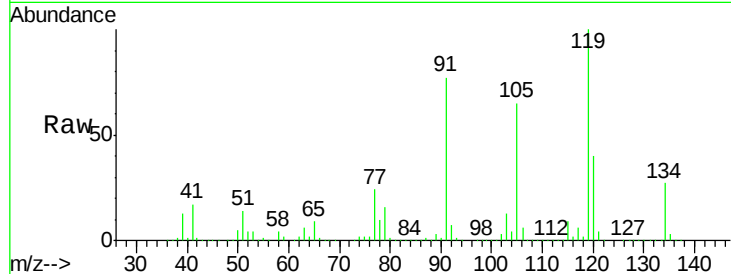
#65
tert-Butylbenzene
Concen: 11.17 ppbv
RT: 18.87 min Scan# 2589
Delta R.T. -0.00 min
Lab File: VL026829.D
Acq: 9 Feb 2016 20:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:119 Resp:10791672
Ion Ratio Lower Upper
119 100
91 76.0 61.5 92.3
134 23.9 17.9 26.9

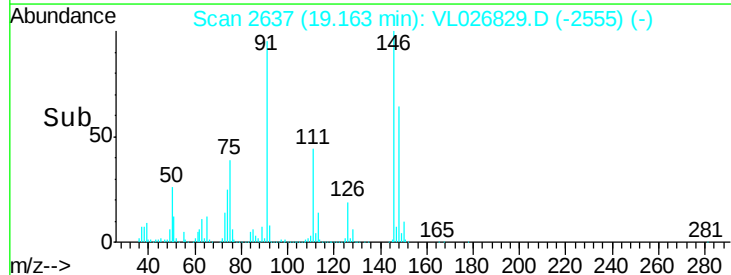
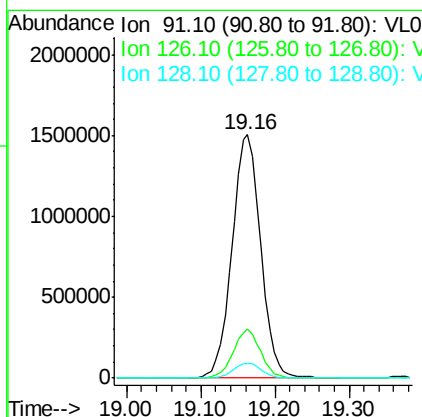
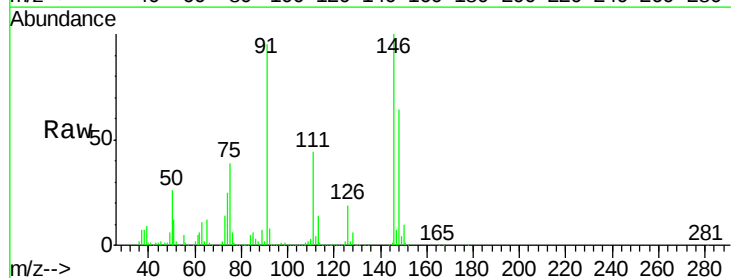
Manual Integrations
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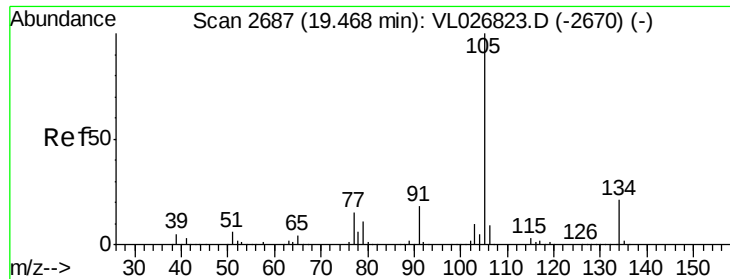
MMDadoda
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#66
Benzyl Chloride
Concen: 11.10 ppbv
RT: 19.16 min Scan# 2637
Delta R.T. -0.00 min
Lab File: VL026829.D
Acq: 9 Feb 2016 20:48

Tgt Ion: 91 Resp: 4040501
Ion Ratio Lower Upper
91 100
126 19.2 14.6 21.8
128 6.2 4.6 6.8





#67

sec-Butylbenzene

Concen: 9.01 ppbv

RT: 19.47 min Scan# 2687

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp:12732928

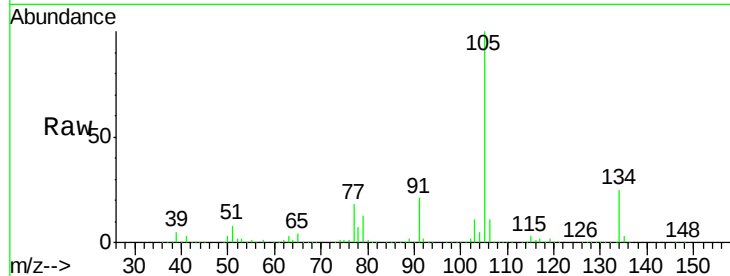
Ion Ratio Lower Upper

105 100

134 22.6 16.1 24.1

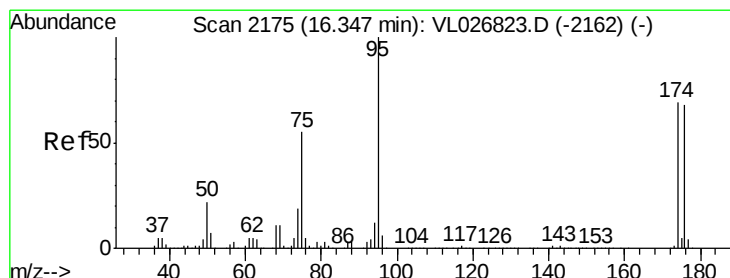
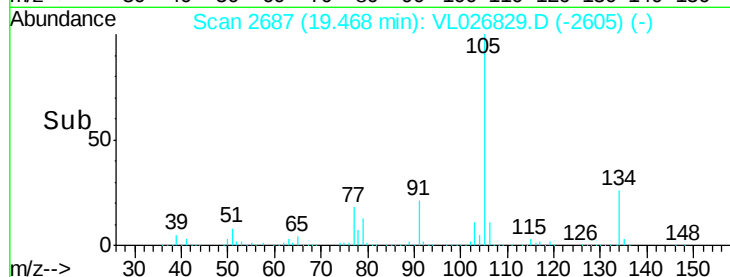
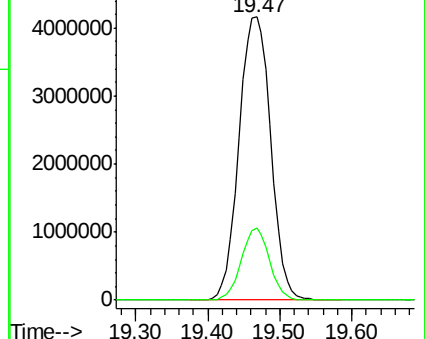
Manual Integrations
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 8.44 ppbv

RT: 16.35 min Scan# 2175

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

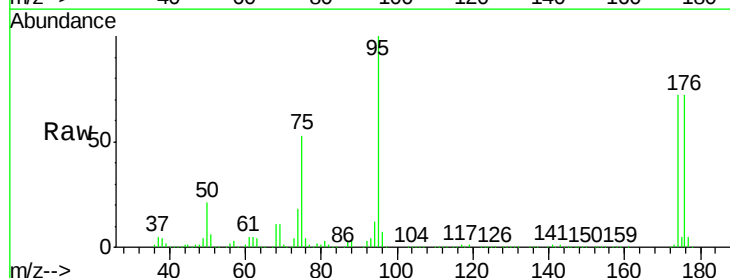
Tgt Ion: 95 Resp: 3308871

Ion Ratio Lower Upper

95 100

174 72.2 55.6 83.4

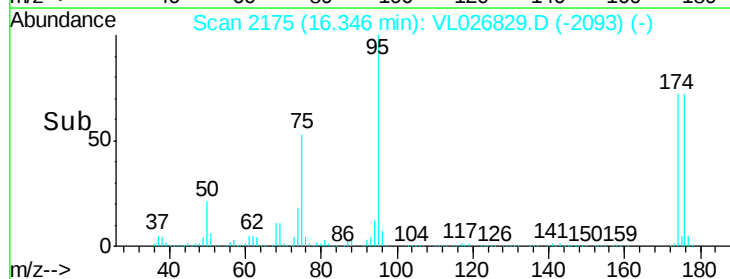
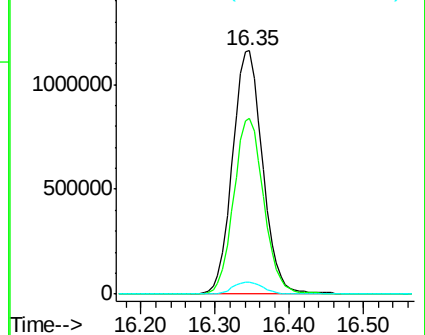
175 5.1 3.9 5.9

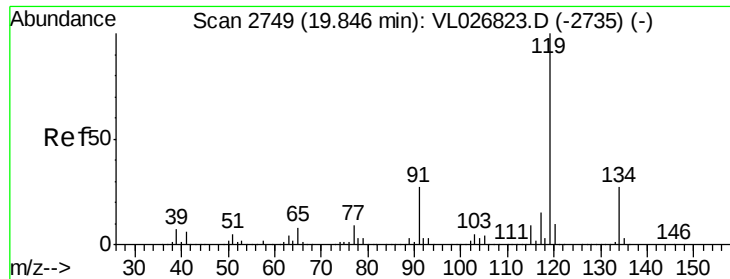


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





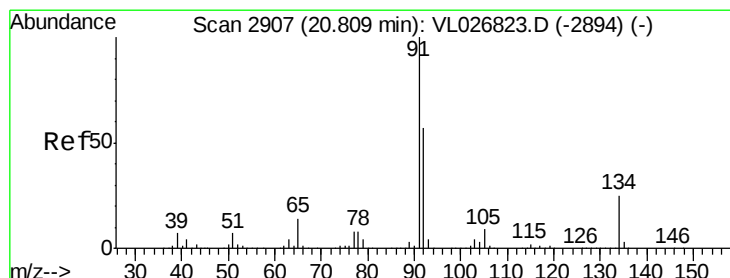
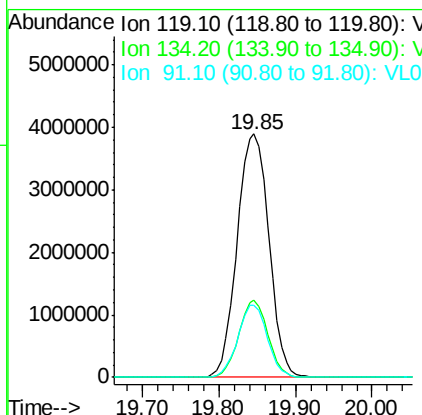
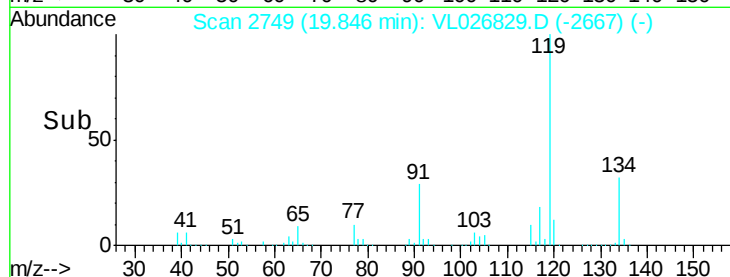
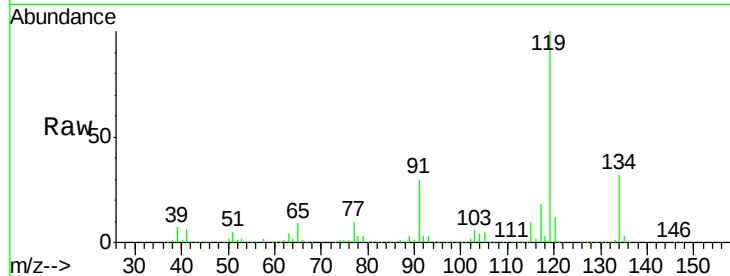
#69
 p-Isopropyltoluene
 Concen: 9.84 ppbv
 RT: 19.85 min Scan# 2749
 Delta R.T. -0.00 min
 Lab File: VL026829.D
 Acq: 9 Feb 2016 20:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:119 Resp:11236273
 Ion Ratio Lower Upper
 119 100
 134 29.0 21.3 31.9
 91 27.7 21.5 32.3

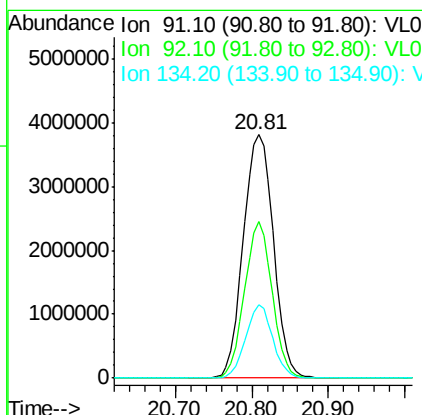
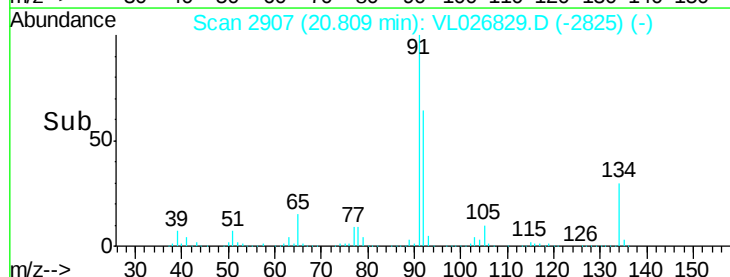
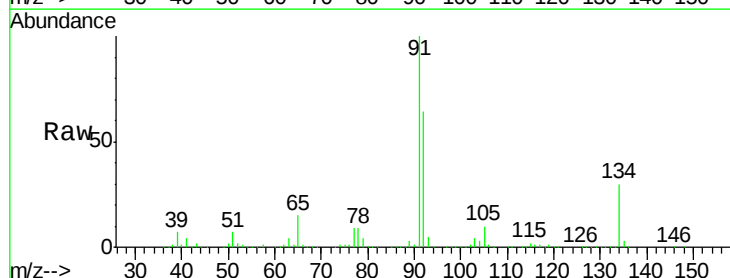
Manual Integrations
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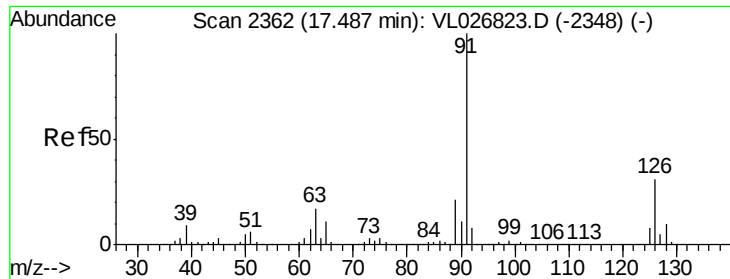
MMDadoda
 2/11/2016 1:23:22 PM



#70
 n-Butylbenzene
 Concen: 8.82 ppbv
 RT: 20.81 min Scan# 2907
 Delta R.T. -0.00 min
 Lab File: VL026829.D
 Acq: 9 Feb 2016 20:48

Tgt Ion: 91 Resp:10465491
 Ion Ratio Lower Upper
 91 100
 92 58.9 44.2 66.4
 134 27.0 19.3 28.9





#71

2-Chlorotoluene

Concen: 10.43 ppbv

RT: 17.48 min Scan# 2361

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 7746160

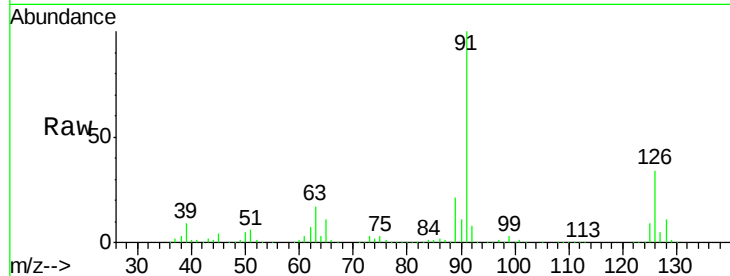
Ion Ratio Lower Upper

91 100

126 33.0 12.2 48.8

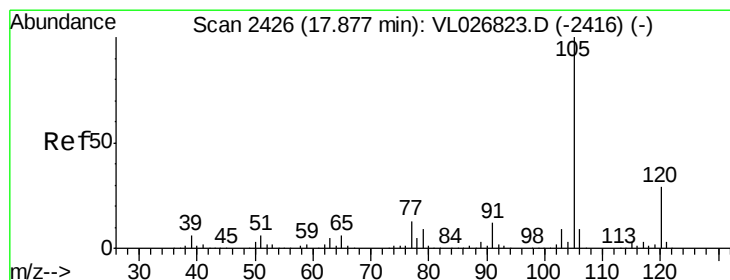
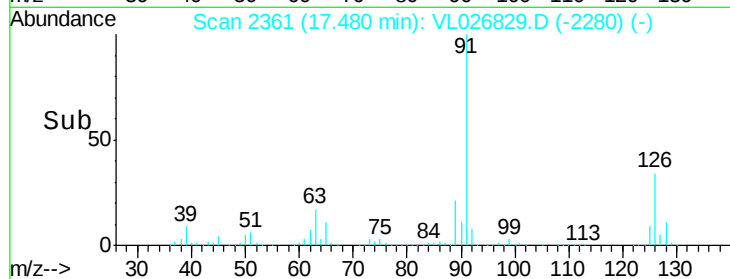
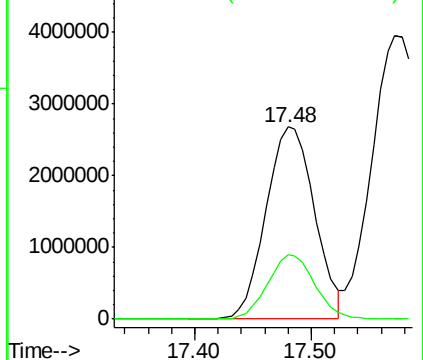
Manual Integrations
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 10.60 ppbv

RT: 17.88 min Scan# 2426

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Tgt Ion:105 Resp: 8833510

Ion Ratio Lower Upper

105 100

120 31.4 23.8 35.6

91 12.8 10.2 15.4

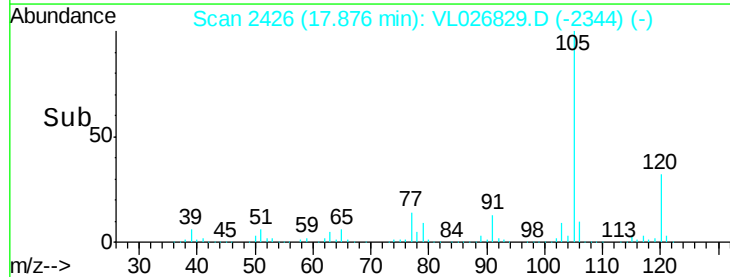
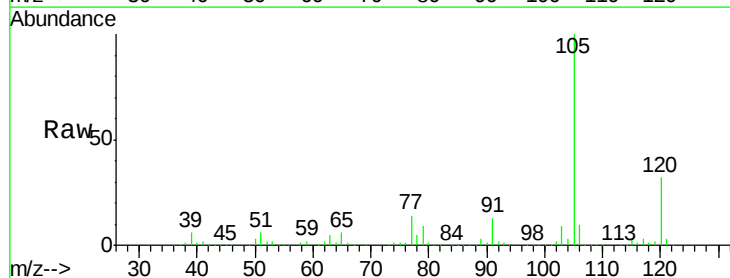
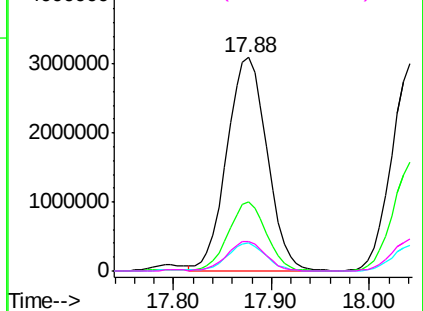
77 13.5 10.8 16.2

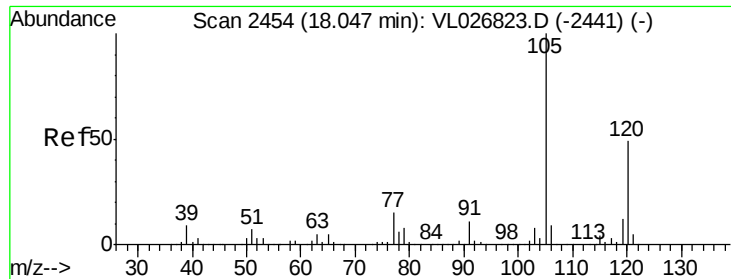
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 10.32 ppbv

RT: 18.04 min Scan# 2453

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 8459025

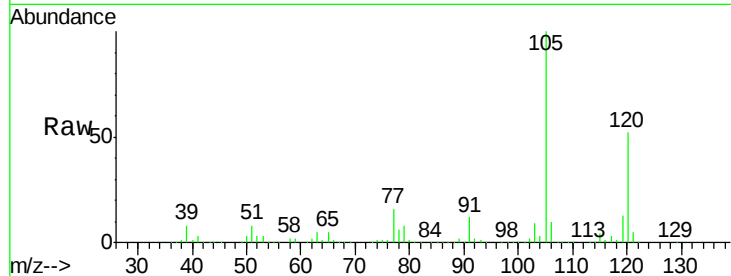
Ion Ratio Lower Upper

105 100

120 52.4 39.4 59.0

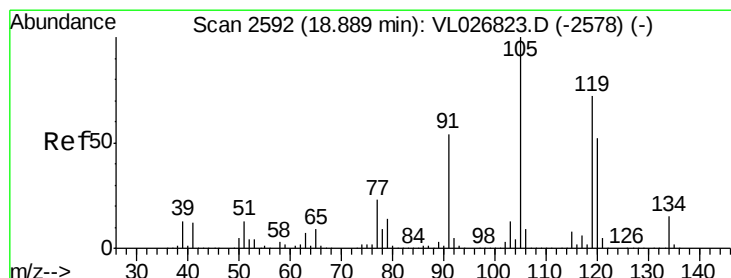
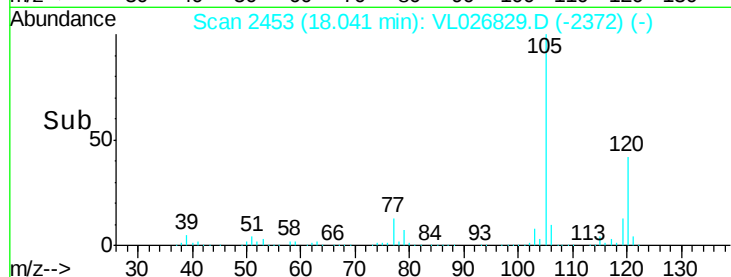
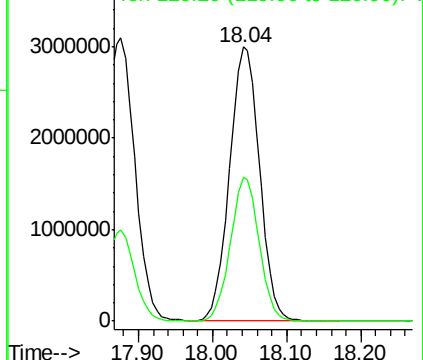
Manual Integrations
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2/11/2016 1:23:22 PM



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: 10.61 ppbv

RT: 18.89 min Scan# 2592

Delta R.T. -0.00 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Tgt Ion:105 Resp: 9616693

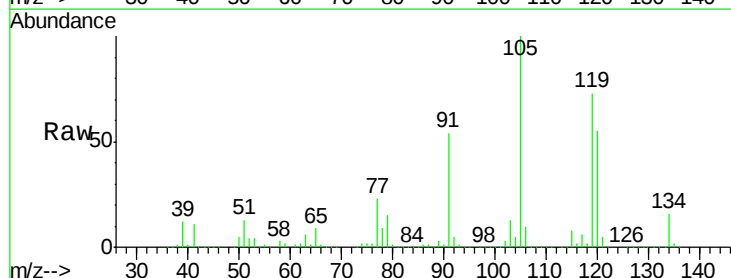
Ion Ratio Lower Upper

105 100

120 55.4 41.3 61.9

91 54.3 43.3 64.9

77 23.2 18.3 27.5

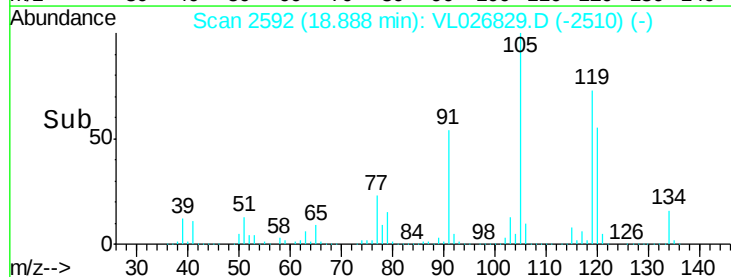
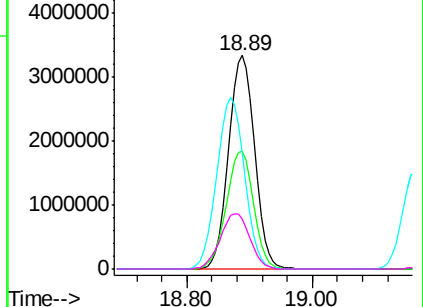


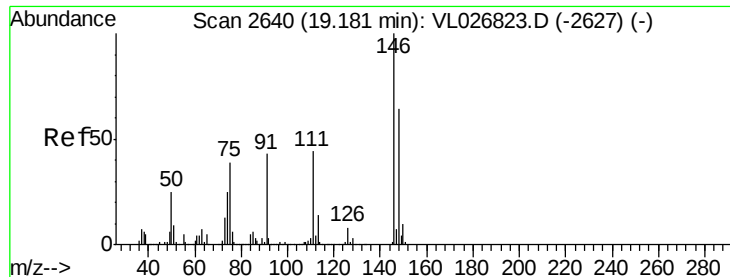
Abundance Ion 105.10 (104.80 to 105.80): V

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





#75

1,3-Dichlorobenzene

Concen: 9.96 ppbv

RT: 19.18 min Scan# 2639

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

Instrument :

MSVOA_L

ClientSampled :

VSTDIC015

Tot Ion:146 Resp: 5937137

Ion Ratio Lower Upper

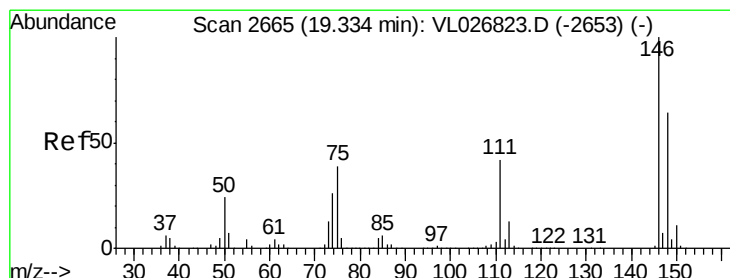
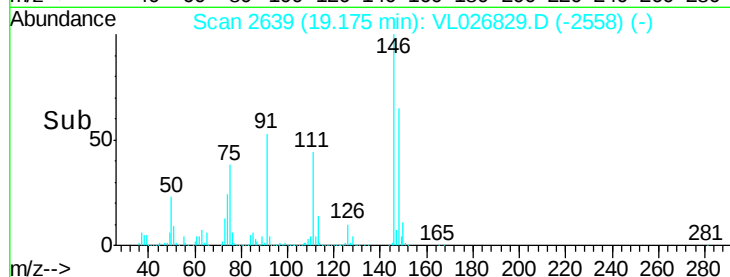
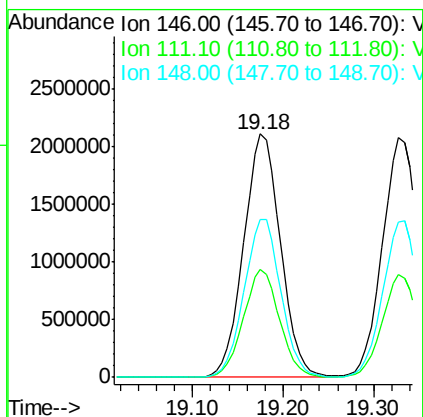
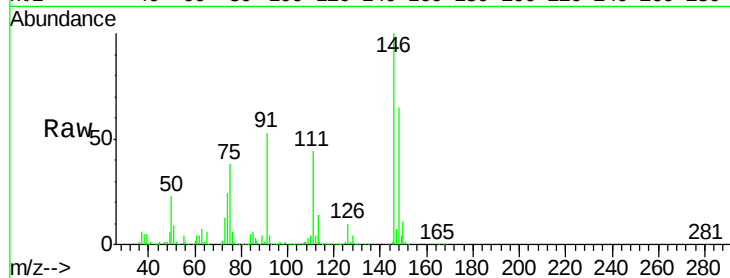
146 100

111 43.3 22.1 66.3

148 64.7 32.2 96.6

Manual Integrations
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2/11/2016 1:23:22 PM



#76

1,4-Dichlorobenzene

Concen: 9.79 ppbv

RT: 19.33 min Scan# 2664

Delta R.T. -0.01 min

Lab File: VL026829.D

Acq: 9 Feb 2016 20:48

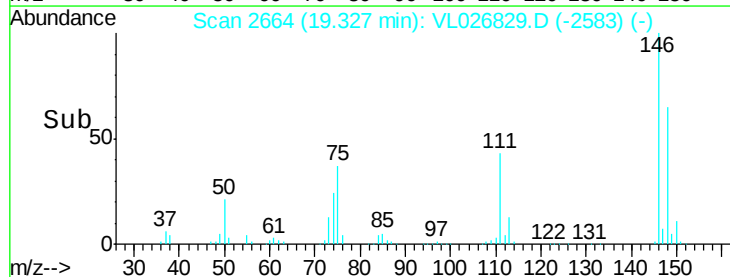
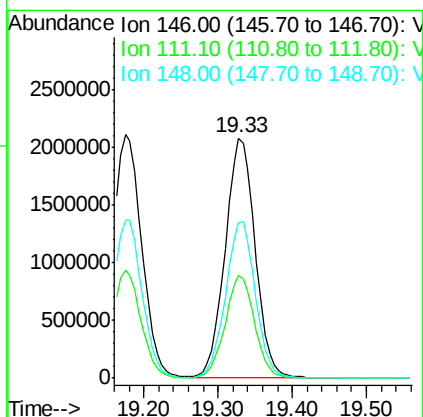
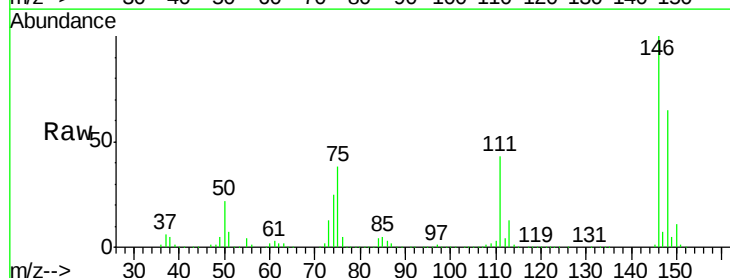
Tgt Ion:146 Resp: 5842270

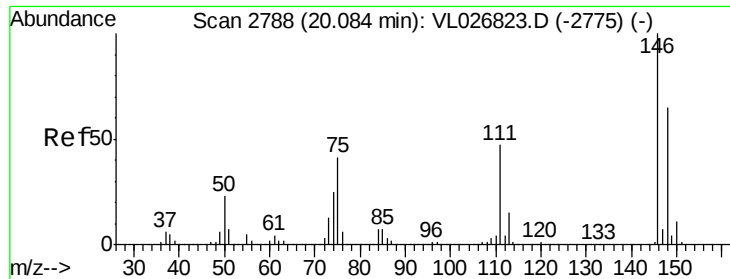
Ion Ratio Lower Upper

146 100

111 42.1 21.6 64.8

148 65.1 32.2 96.6





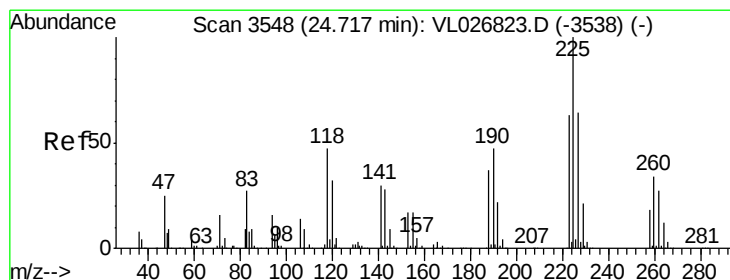
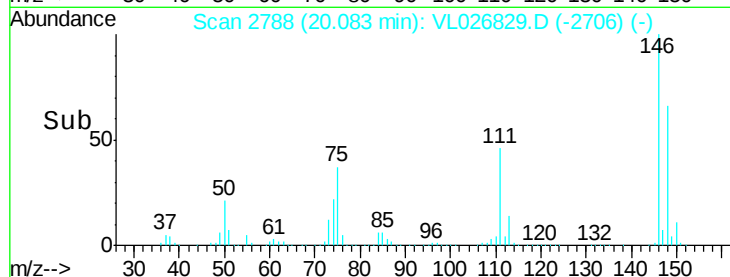
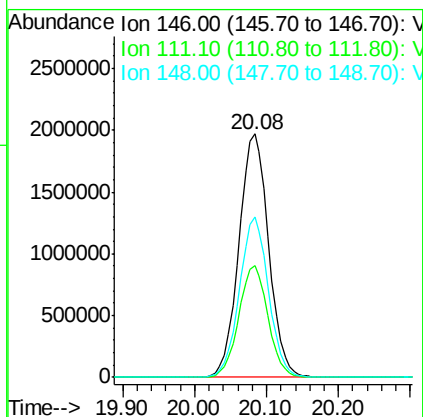
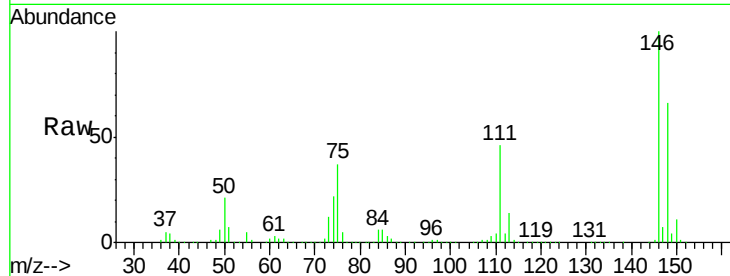
#77
 1,2-Dichlorobenzene
 Concen: 9.11 ppbv
 RT: 20.08 min Scan# 2788
 Delta R.T. -0.00 min
 Lab File: VL026829.D
 Acq: 9 Feb 2016 20:48

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC015

Tot Ion:146 Resp: 5633498
 Ion Ratio Lower Upper
 146 100
 111 45.2 23.1 69.3
 148 64.6 32.1 96.5

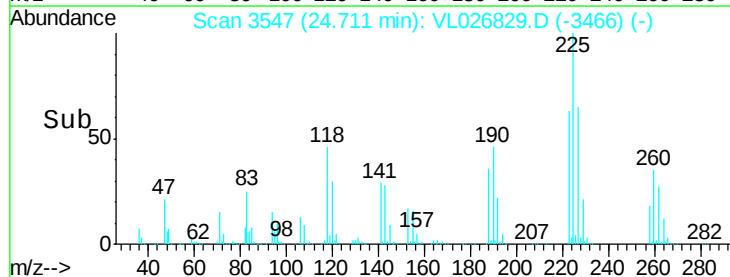
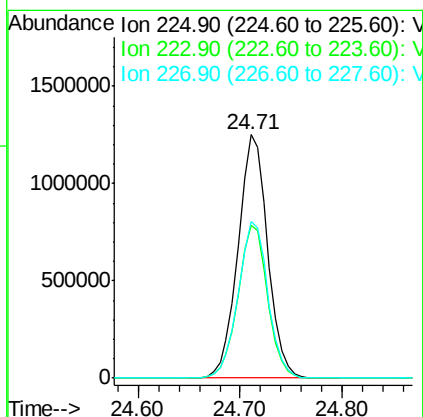
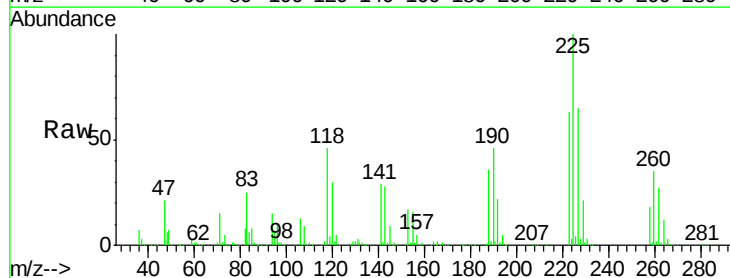
Manual Integrations
 APPROVED

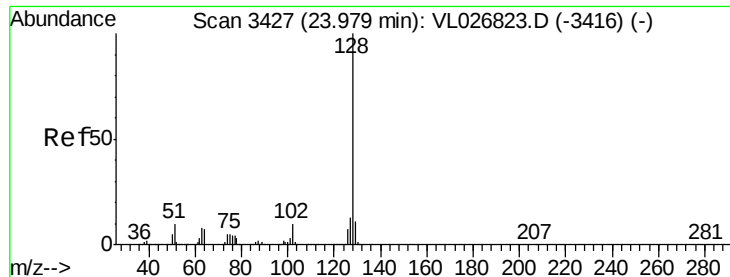
MMDadoda
 2/11/2016 1:23:22 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.32 ppbv
 RT: 24.71 min Scan# 3547
 Delta R.T. -0.01 min
 Lab File: VL026829.D
 Acq: 9 Feb 2016 20:48

Tgt Ion:225 Resp: 2515288
 Ion Ratio Lower Upper
 225 100
 223 62.9 50.2 75.2
 227 64.8 52.1 78.1





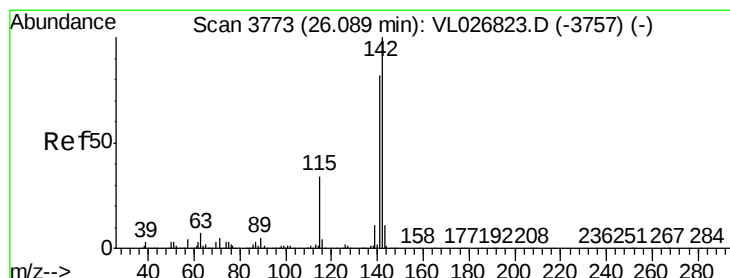
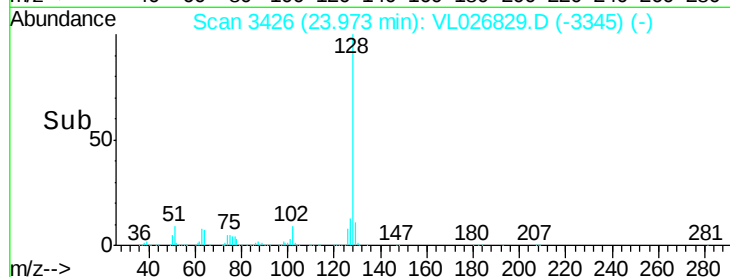
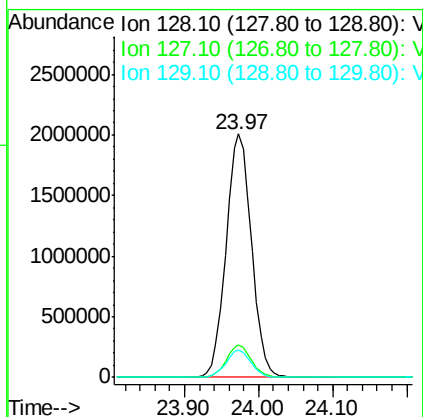
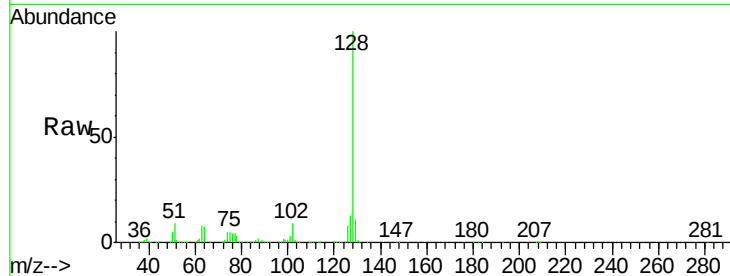
#79
Naphthalene
Concen: 6.10 ppbv
RT: 23.97 min Scan# 3426
Delta R.T. -0.01 min
Lab File: VL026829.D
Acq: 9 Feb 2016 20:48

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:128 Resp: 4777793
Ion Ratio Lower Upper
128 100
127 13.4 10.0 15.0
129 11.4 8.7 13.1

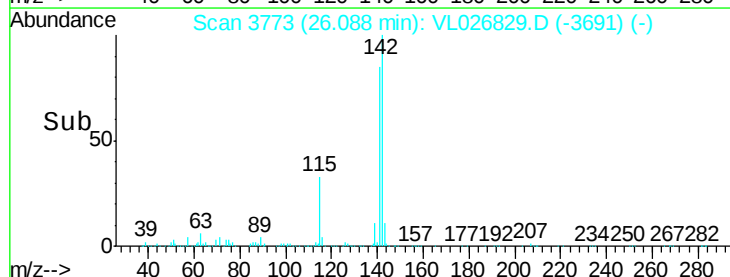
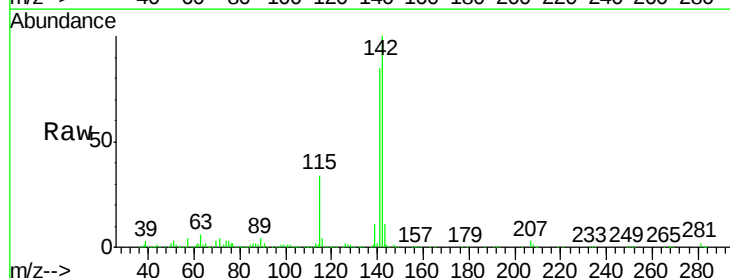
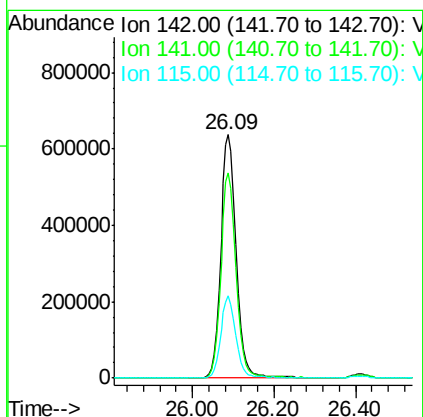
Manual Integrations
APPROVED

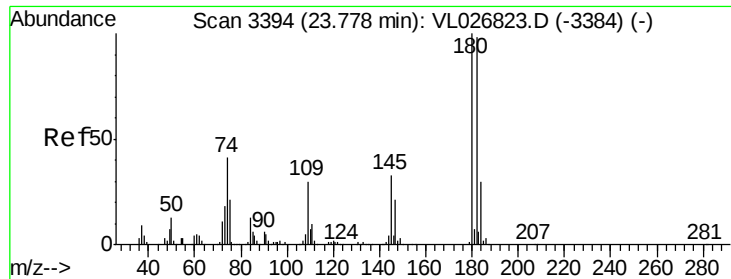
MMDadoda
2/11/2016 1:23:22 PM



#80
Naphthalene, 2-methyl-
Concen: 12.57 ppbv
RT: 26.09 min Scan# 3773
Delta R.T. -0.00 min
Lab File: VL026829.D
Acq: 9 Feb 2016 20:48

Tgt Ion:142 Resp: 1704161
Ion Ratio Lower Upper
142 100
141 83.8 67.2 100.8
115 32.8 27.5 41.3





#81
 1,2,4-Trichlorobenzene
 Concen: 7.71 ppbv
 RT: 23.78 min Scan# 3394
 Delta R.T. -0.00 min
 Lab File: VL026829.D
 Acq: 9 Feb 2016 20:48

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.8	77.3	115.9
184	30.5	24.5	36.7

Manual Integrations
 APPROVED

MMDadoda
 2/11/2016 1:23:22 PM

