

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041218\
 Data File : VL031878.D
 Acq On : 12 Apr 2018 23:19
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 4/15/2018 3:08:19 PM

Quant Time: Apr 14 04:15:16 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Apr 13 16:50:02 2018
 QLast Update : Fri Apr 13 16:50:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1356522	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2875168	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.40	117	3058432m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.73	95	2306014	9.38	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.16	85	1484679	5.306	ppbv	98
3) Chlorodifluoromethane	3.10	51	1116129	7.074	ppbv	99
4) Chloromethane	3.26	50	657134	8.159	ppbv	95
5) Vinyl Chloride	3.39	62	705064	7.775	ppbv	98
6) Bromomethane	3.61	94	477762	8.016	ppbv	99
7) Chloroethane	3.70	64	289008	7.994	ppbv	98
8) Dichlorotetrafluoroethane	3.31	85	1759213	7.658	ppbv	100
9) Propene	3.13	41	491344	9.007	ppbv	98
10) Heptane	8.39	43	1608364	9.087	ppbv	100
11) Trichlorofluoromethane	4.11	101	2332143	8.502	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.67	101	1493783	8.380	ppbv	100
13) Ethanol	3.75	45	123465	6.669	ppbv	98
14) Bromoethene	3.89	108	637256	9.480	ppbv	99
15) Acetone	4.01	43	1591936	7.625	ppbv	98
16) 1,3-Butadiene	3.46	39	685750	8.877	ppbv	99
17) tert-Butyl alcohol	4.47	59	666529	7.725	ppbv	98
18) 1,1-Dichloroethene	4.47	96	675103	8.816	ppbv	95
19) Isopropyl Alcohol	4.13	45	1035127	8.876	ppbv	# 99
20) Methylene Chloride	4.52	84	620761	8.163	ppbv	91
21) Allyl Chloride	4.59	41	1092506	9.160	ppbv	98
22) trans-1,2-Dichloroethene	5.09	96	718048	9.046	ppbv	98
23) Vinyl Acetate	5.28	43	2068193	9.769	ppbv	99
24) 1,1-Dichloroethane	5.22	63	1910539	9.058	ppbv	100
25) Ethyl Acetate	5.90	43	2952678	9.068	ppbv	100
26) Hexane	5.91	57	1401774	9.233	ppbv	99
27) Carbon Disulfide	4.74	76	1773518	8.998	ppbv	100
28) Methyl tert-Butyl Ether	5.24	73	1808670	9.681	ppbv	99
29) Chloroform	5.98	83	2235923	8.688	ppbv	100
30) Cyclohexane	7.39	84	995520	9.182	ppbv	98
31) cis-1,2-Dichloroethene	5.77	61	1304925	9.488	ppbv	99
32) 1,1,1-Trichloroethane	6.76	97	2018133	8.052	ppbv	99
34) 2-Butanone	5.46	43	1931183	9.682	ppbv	98
35) Carbon Tetrachloride	7.28	117	2045099	8.190	ppbv	97
36) Benzene	7.15	78	2410727	9.322	ppbv	97
37) 1,2-Dichloroethane	6.55	62	1650275	8.576	ppbv	99
38) Trichloroethene	8.11	130	962234	9.166	ppbv	96
39) 1,2-Dichloropropane	7.88	63	867633	9.025	ppbv	98
40) 1,4-Dioxane	8.10	88	358210	9.180	ppbv	85
41) Tetrahydrofuran	6.28	42	979450	10.610	ppbv	98
42) Bromodichloromethane	8.06	83	2054628	8.924	ppbv	99
43) Methyl Methacrylate	8.28	69	891064	9.792	ppbv	97

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 VSTDCCC010EC

Manual Integrations
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Quant Time: Apr 14 04:15:16 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Apr 13 2018
 QLast Update : Fri Apr 13 16:50:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	8.13	57	4136898	9.288	ppbv	99
45) t-1,3-Dichloropropene	9.57	75	1242698	10.529	ppbv	96
46) cis-1,3-Dichloropropene	8.98	75	1524714	10.107	ppbv	94
47) 1,1,2-Trichloroethane	9.77	97	1014421	8.878	ppbv	98
48) Dibromochloromethane	10.61	129	1714915	9.287	ppbv	100
49) Bromoform	13.36	173	1337147	9.406	ppbv	99
50) 4-Methyl-2-Pentanone	9.02	43	2098054	9.190	ppbv	100
51) 2-Hexanone	10.42	43	1868180	9.362	ppbv #	100
52) Tetrachloroethene	11.53	164	884332	8.777	ppbv	95
53) Toluene	10.10	91	2859491	9.915	ppbv	99
54) 1,2-Dibromoethane	10.92	107	1537880	9.272	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.44	131	1181425	8.209	ppbv	98
57) Chlorobenzene	12.46	112	2157422	8.320	ppbv	98
58) Ethyl Benzene	13.02	91	3987392	9.388	ppbv	100
59) m/p-Xylene	13.30	91	6458109m	17.512	ppbv	
60) o-Xylene	14.01	91	3321026	9.009	ppbv	100
61) Styrene	13.84	104	736552	10.493	ppbv	100
62) Isopropylbenzene	14.98	105	4158461	8.783	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.99	83	2172558	7.665	ppbv	99
64) n-propylbenzene	15.88	120	1020443	8.865	ppbv	100
65) tert-Butylbenzene	17.07	119	3591680	8.820	ppbv	99
66) Benzyl Chloride	17.31	91	383300	10.446	ppbv	99
67) sec-Butylbenzene	17.61	105	5081981	8.662	ppbv	100
69) p-Isopropyltoluene	17.97	119	4081749	8.975	ppbv	99
70) n-Butylbenzene	18.87	91	4126614	8.714	ppbv	100
71) 2-Chlorotoluene	15.77	91	3095257	9.041	ppbv	99
72) 4-Ethyltoluene	16.15	105	3340268	8.867	ppbv	100
73) 1,3,5-Trimethylbenzene	16.31	105	3048078	8.839	ppbv	99
74) 1,2,4-Trimethylbenzene	17.08	105	3195549	8.301	ppbv	98
75) 1,3-Dichlorobenzene	17.32	146	1901695	8.055	ppbv	99
76) 1,4-Dichlorobenzene	17.47	146	1908050	8.331	ppbv	99
77) 1,2-Dichlorobenzene	18.14	146	1933033	8.315	ppbv	99
78) Hexachloro-1,3-Butadiene	23.69	225	985313	11.037	ppbv	99
79) Naphthalene	22.59	128	2007218m	9.263	ppbv	
80) Naphthalene, 2-methyl-	25.23	142	373664	8.834	ppbv	98
81) 1,2,4-Trichlorobenzene	22.32	180	1016791	8.458	ppbv	99

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

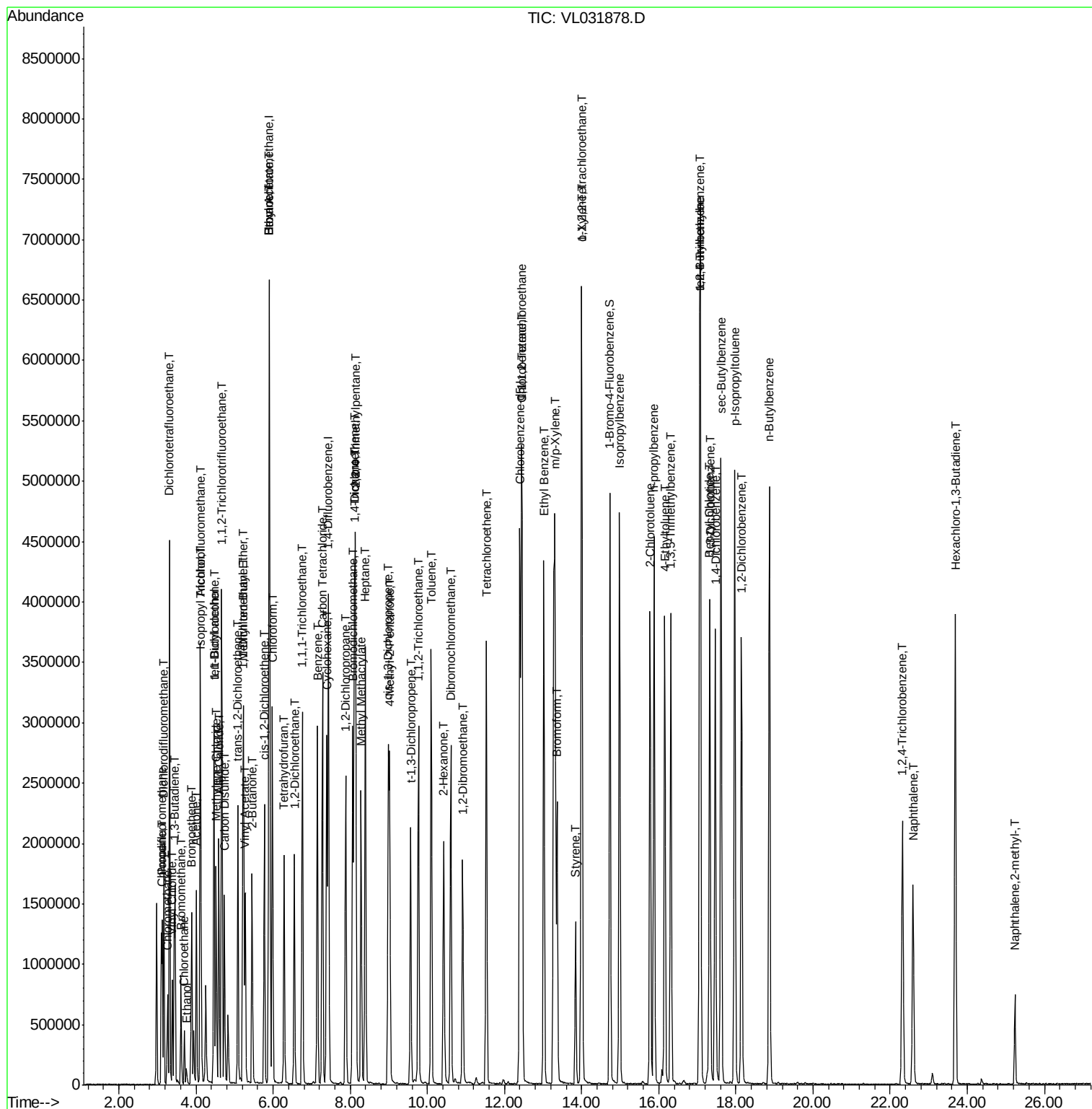
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Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041218\  
Data File : VL031878.D  
Acq On    : 12 Apr 2018   23:19  
Operator  : SY/AP  
Sample    : VSTDCCC010  
Misc      : 400ml/MSVOA L  
ALS Vial  : 1      Sample Multiplier: 1
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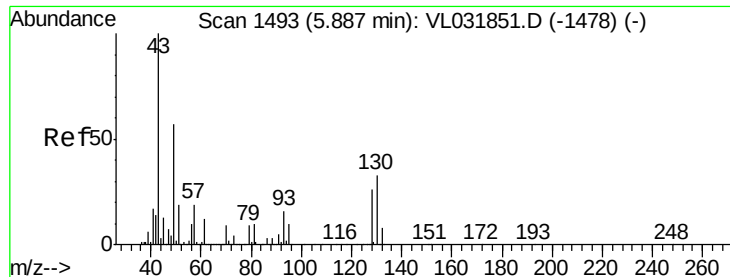
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Manual Integrations APPROVED

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4/15/2018 3:08:19 PM

Quant Time: Apr 14 04:15:16 2018
Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Apr
QLast Update : Fri Apr 13 16:50:02 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.89 min Scan# 1495

Delta R.T. 0.00 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 1356522

Ion Ratio Lower Upper

49 100

128 47.9 23.9 71.7

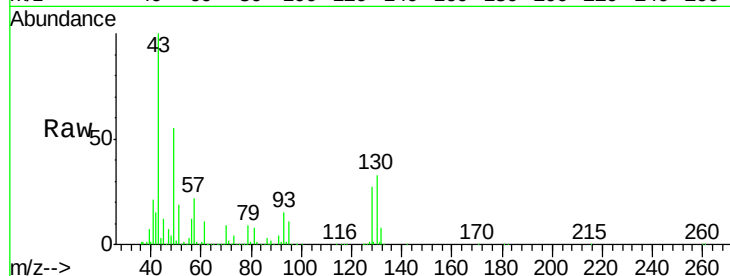
130 61.5 30.9 92.7

Manual Integrations

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4/15/2018 3:08:19 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.89

800000

600000

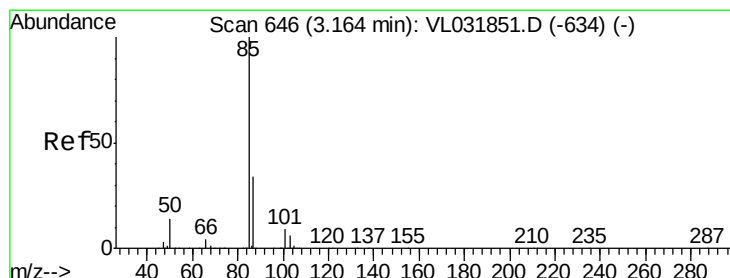
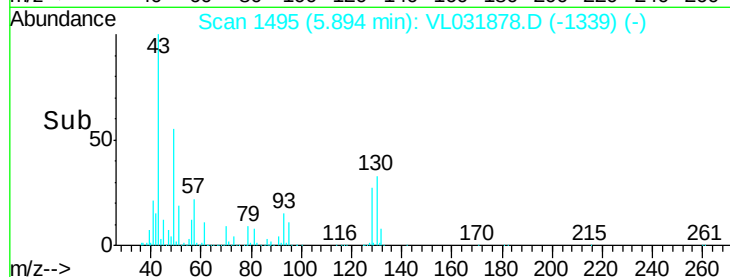
400000

200000

0

5.85 5.90 5.95

Time-->



#2

Dichlorodifluoromethane

Concen: 5.306 ppbv

RT: 3.16 min Scan# 646

Delta R.T. -0.00 min

Lab File: VL031878.D

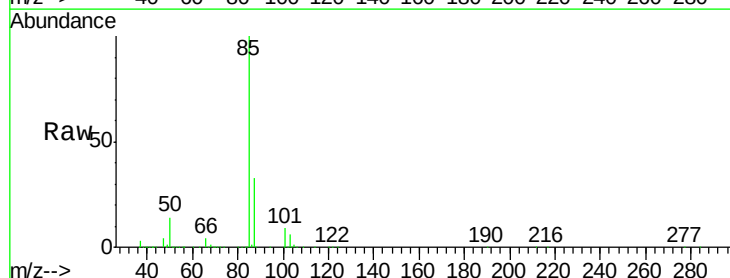
Acq: 12 Apr 2018 23:19

Tgt Ion: 85 Resp: 1484679

Ion Ratio Lower Upper

85 100

87 33.4 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.16

1200000

1000000

800000

600000

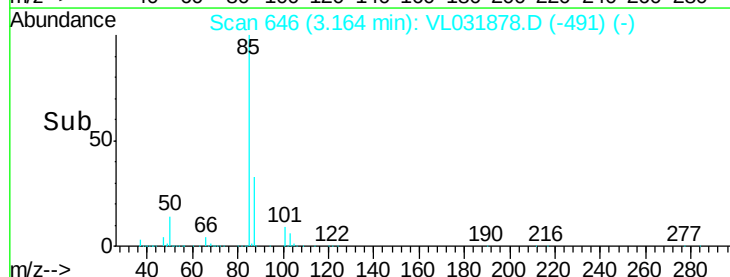
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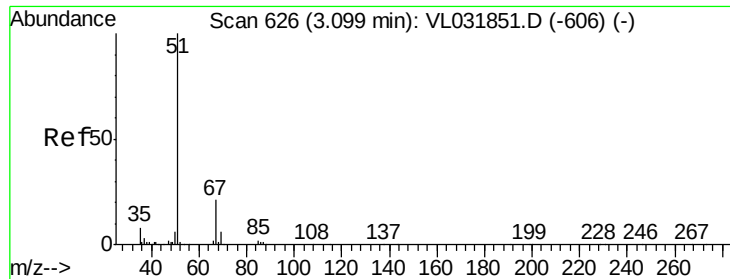
200000

0

3.10 3.15 3.20

Time-->





#3

Chlorodifluoromethane

Concen: 7.074 ppbv

RT: 3.10 min Scan# 627

Delta R.T. 0.00 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

Tot Ion: 51 Resp: 1116129

Ion Ratio Lower Upper

51 100

67 21.2 17.5 26.3

Instrument :

MSVOA_L

ClientSampleId :

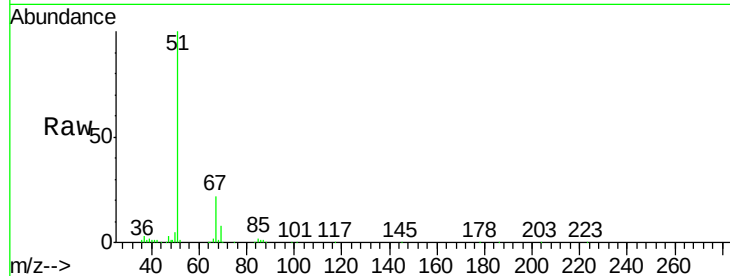
VSTDCCC010EC

Manual Integrations

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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0

3.10

800000

600000

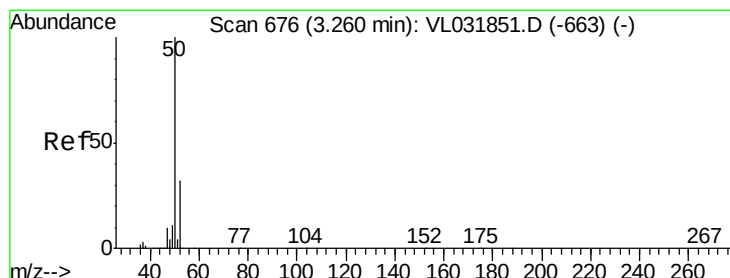
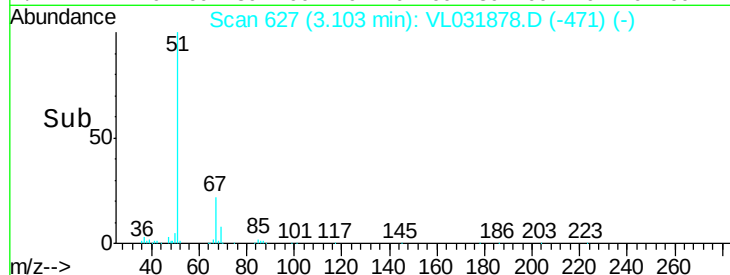
400000

200000

0

Time-->

3.00 3.05 3.10 3.15



#4

Chloromethane

Concen: 8.159 ppbv

RT: 3.26 min Scan# 676

Delta R.T. -0.00 min

Lab File: VL031878.D

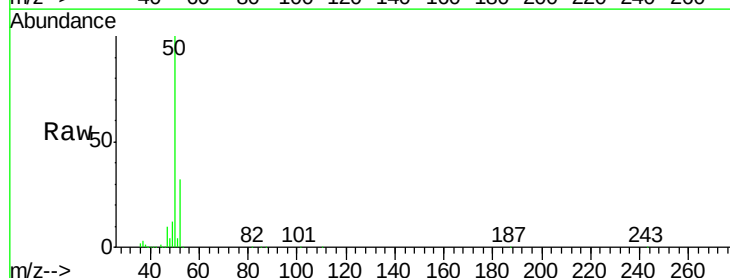
Acq: 12 Apr 2018 23:19

Tgt Ion: 50 Resp: 657134

Ion Ratio Lower Upper

50 100

52 32.0 28.1 42.1



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0

3.26

500000

400000

300000

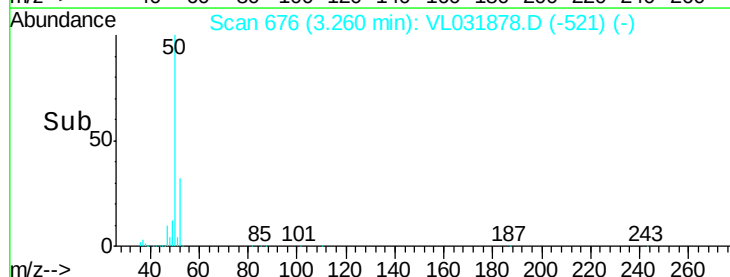
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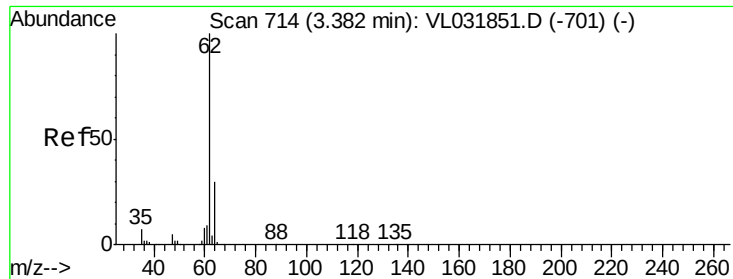
100000

0

Time-->

3.20 3.25 3.30





#5

Vinyl Chloride

Concen: 7.775 ppbv

RT: 3.39 min Scan# 715

Delta R.T. 0.00 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 705064

Ion Ratio Lower Upper

62 100

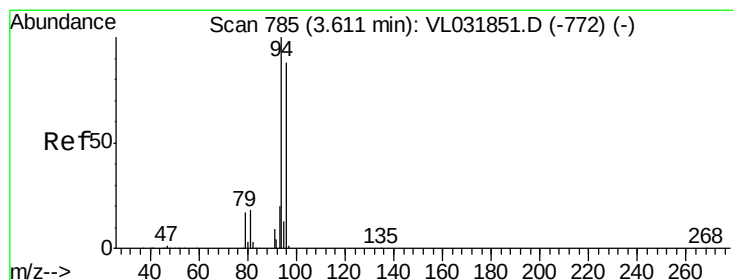
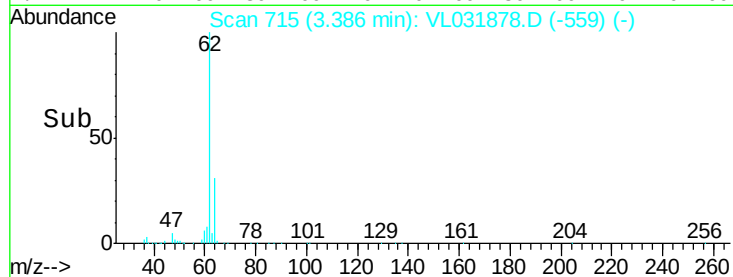
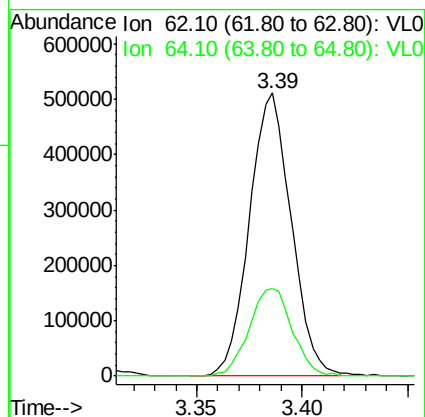
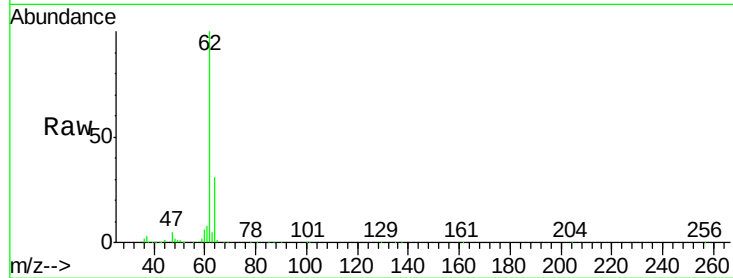
64 31.0 25.9 38.9

Manual Integrations

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4/15/2018 3:08:19 PM



#6

Bromomethane

Concen: 8.016 ppbv

RT: 3.61 min Scan# 786

Delta R.T. 0.00 min

Lab File: VL031878.D

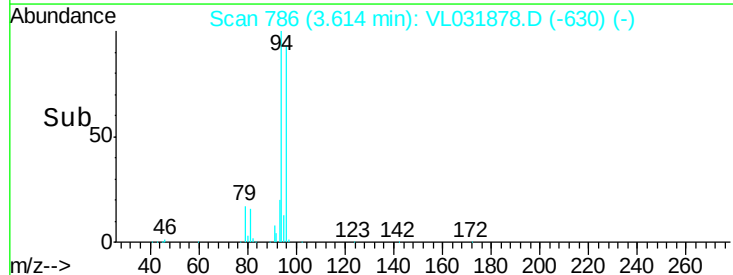
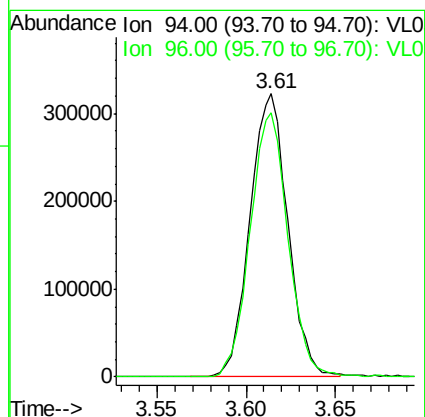
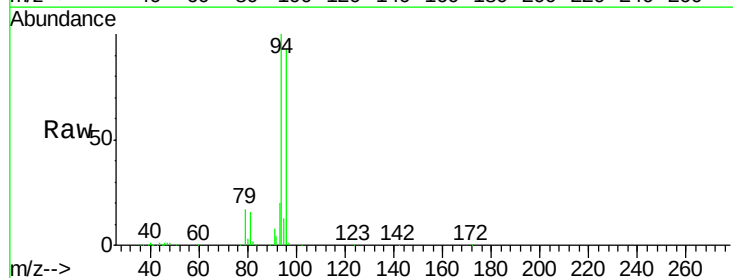
Acq: 12 Apr 2018 23:19

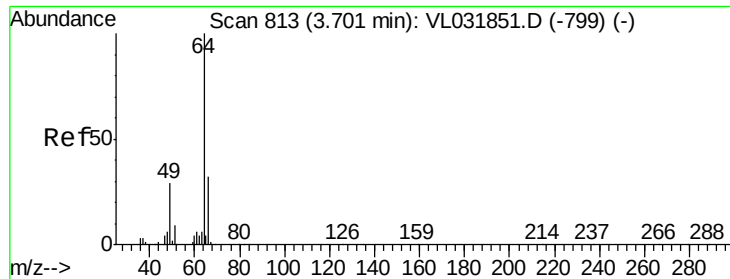
Tgt Ion: 94 Resp: 477762

Ion Ratio Lower Upper

94 100

96 93.2 73.8 110.6





#7

Chloroethane

Concen: 7.994 ppbv

RT: 3.70 min Scan# 812

Delta R.T. -0.00 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 289008

Ion Ratio Lower Upper

64 100

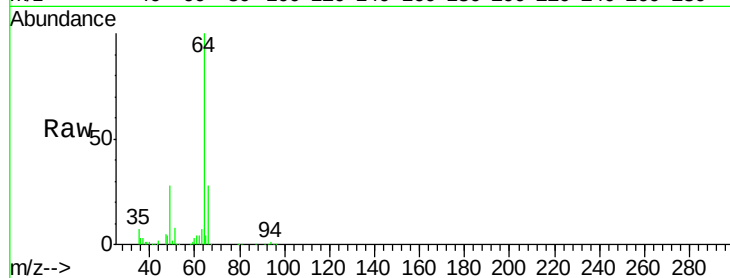
66 28.2 23.4 35.0

Manual Integrations

APPROVED

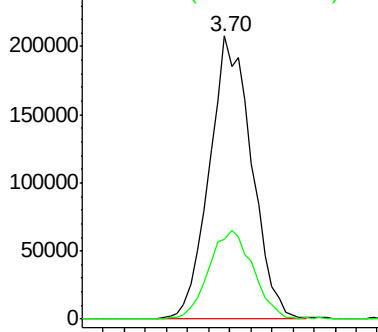
MMDadoda

4/15/2018 3:08:19 PM

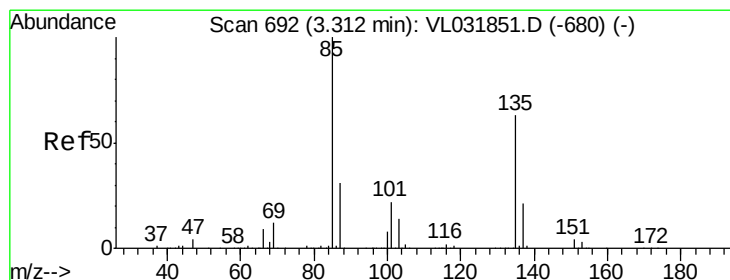
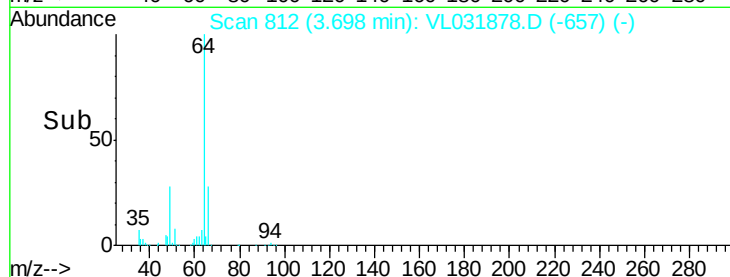


Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



Time-->



#8

Dichlorotetrafluoroethane

Concen: 7.658 ppbv

RT: 3.31 min Scan# 692

Delta R.T. -0.00 min

Lab File: VL031878.D

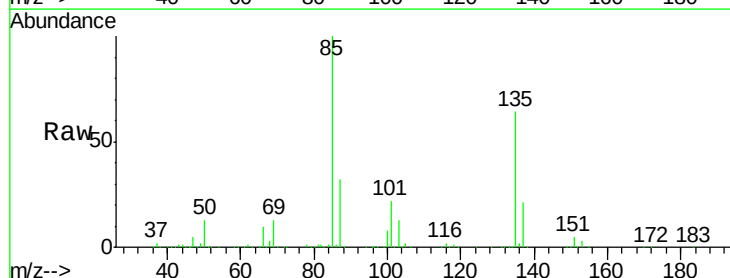
Acq: 12 Apr 2018 23:19

Tgt Ion: 85 Resp: 1759213

Ion Ratio Lower Upper

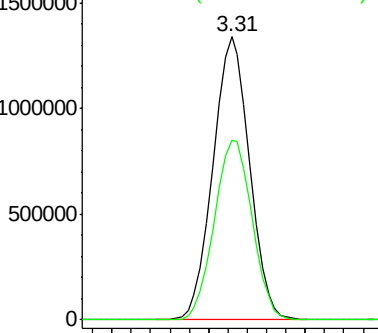
85 100

135 66.2 52.7 79.1

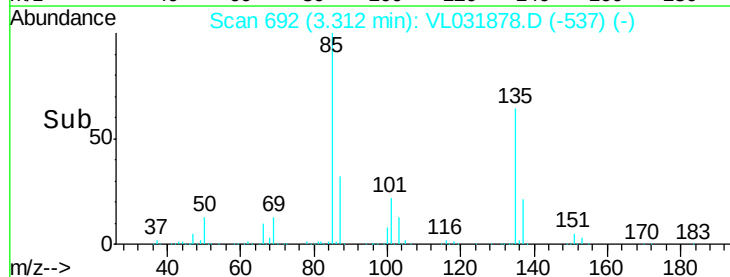


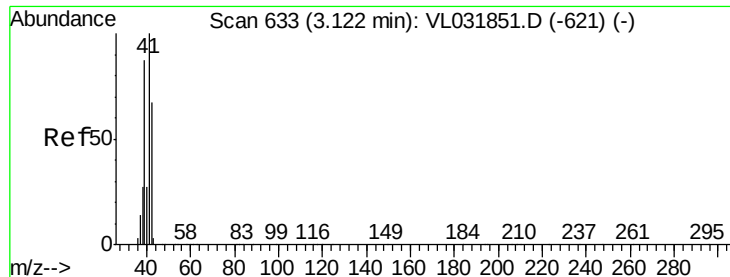
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



Time-->





#9

Propene

Concen: 9.007 ppbv

RT: 3.13 min Scan# 634

Delta R.T. 0.00 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 491344

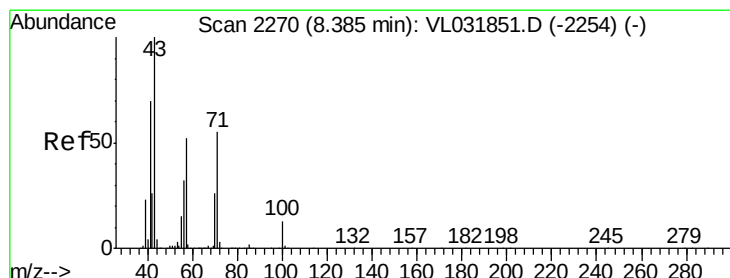
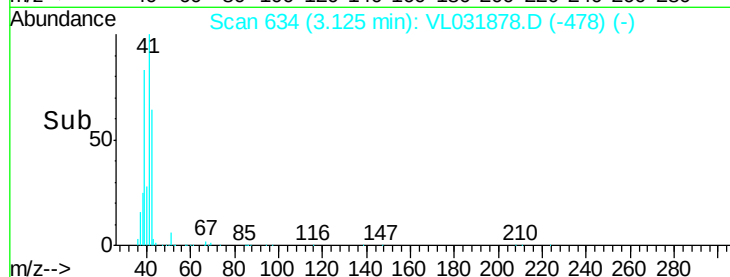
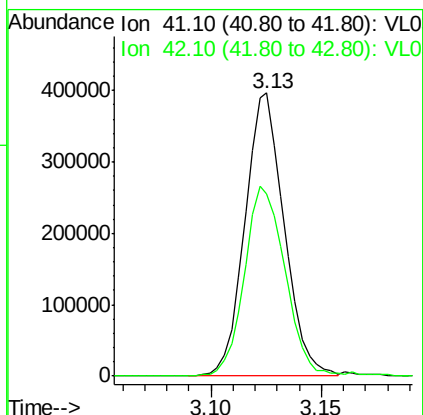
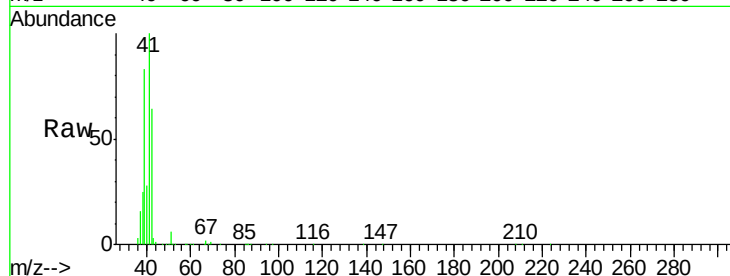
Ion Ratio Lower Upper

41 100

42 70.2 55.0 82.4

Manual Integrations
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4/15/2018 3:08:19 PM



#10

Heptane

Concen: 9.087 ppbv

RT: 8.39 min Scan# 2272

Delta R.T. 0.01 min

Lab File: VL031878.D

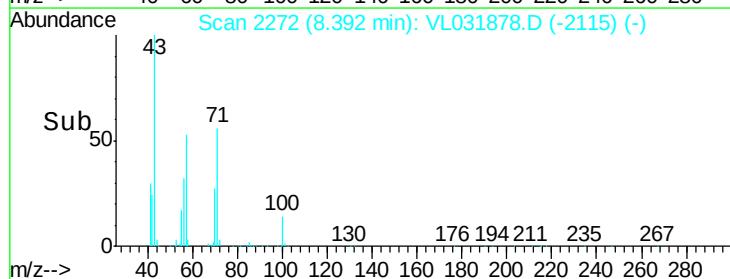
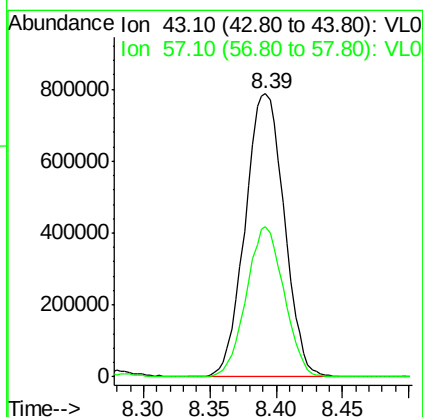
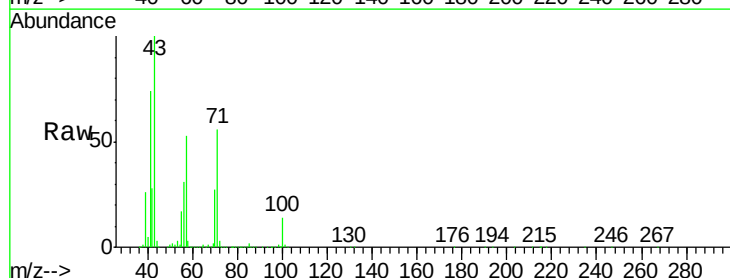
Acq: 12 Apr 2018 23:19

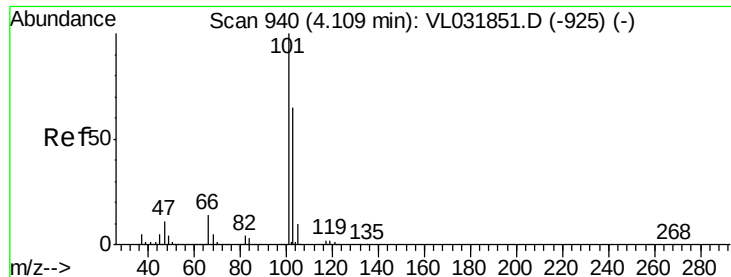
Tgt Ion: 43 Resp: 1608364

Ion Ratio Lower Upper

43 100

57 51.6 41.5 62.3





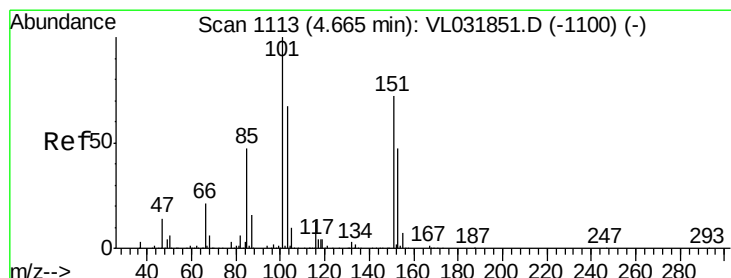
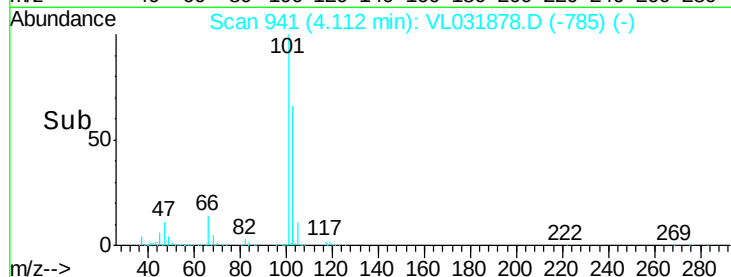
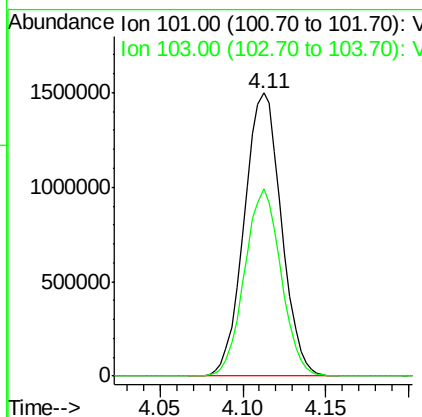
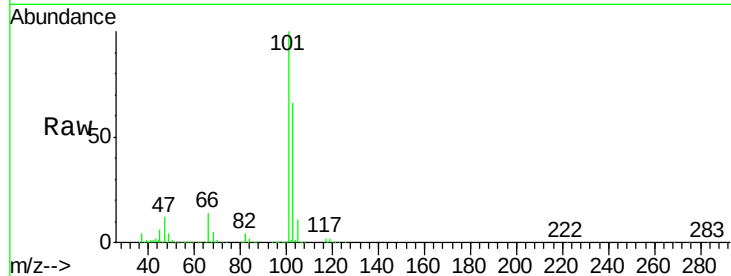
#11
 Trichlorofluoromethane
 Concen: 8.502 ppbv
 RT: 4.11 min Scan# 941
 Delta R.T. 0.00 min
 Lab File: VL031878.D
 Acq: 12 Apr 2018 23:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 2332143
 Ion Ratio Lower Upper
 101 100
 103 66.1 51.8 77.8

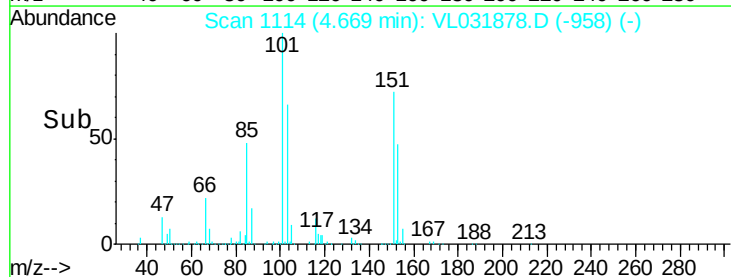
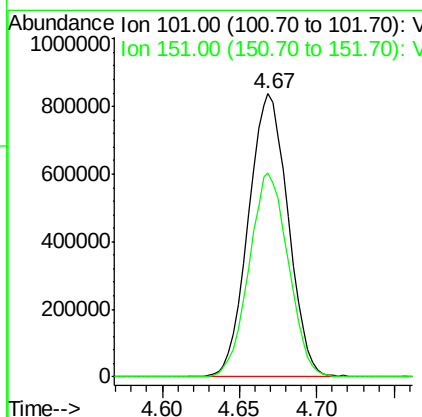
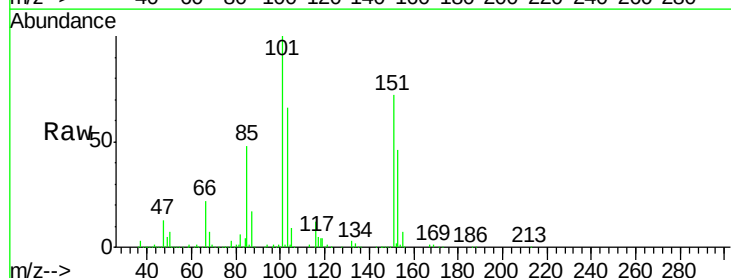
Manual Integrations
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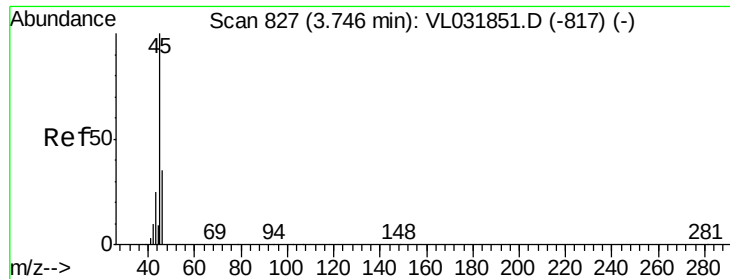
MMDadoda
 4/15/2018 3:08:19 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 8.380 ppbv
 RT: 4.67 min Scan# 1114
 Delta R.T. 0.00 min
 Lab File: VL031878.D
 Acq: 12 Apr 2018 23:19

Tgt Ion:101 Resp: 1493783
 Ion Ratio Lower Upper
 101 100
 151 71.5 57.0 85.6





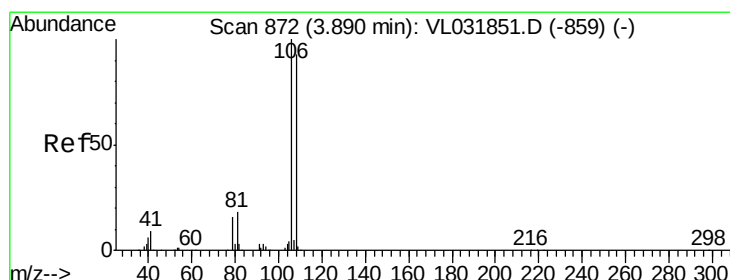
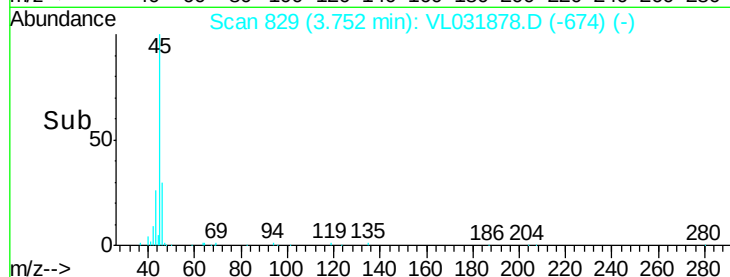
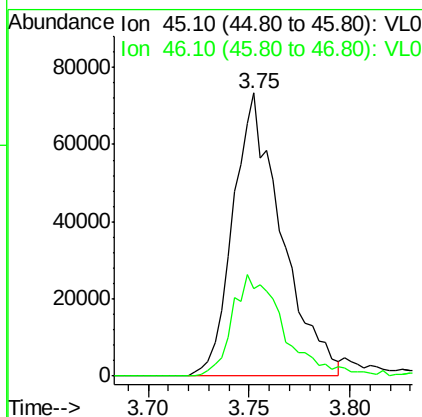
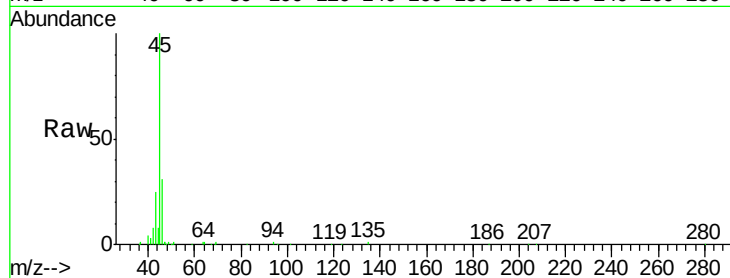
#13
Ethanol
Concen: 6.669 ppbv
RT: 3.75 min Scan# 829
Delta R.T. -0.00 min
Lab File: VL031878.D
Acq: 12 Apr 2018 23:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
45	100		
46	38.1	14.6	58.6

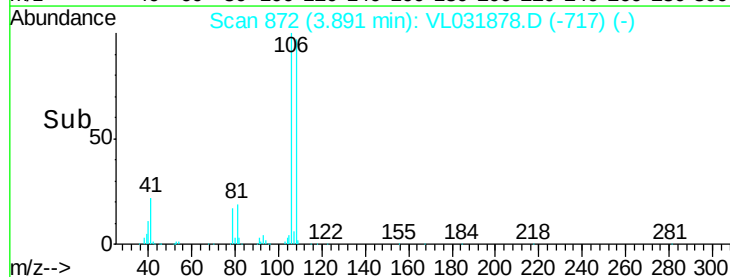
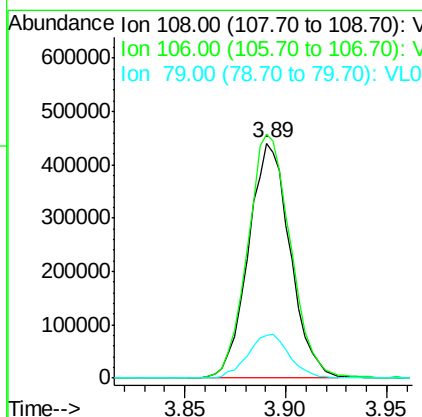
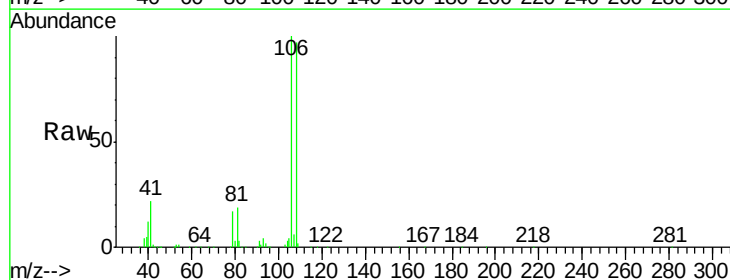
Manual Integrations
APPROVED

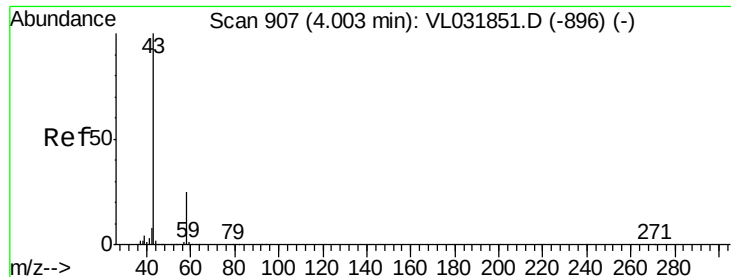
MMDadoda
4/15/2018 3:08:19 PM



#14
Bromoethene
Concen: 9.480 ppbv
RT: 3.89 min Scan# 872
Delta R.T. -0.00 min
Lab File: VL031878.D
Acq: 12 Apr 2018 23:19

Tgt Ion	Ratio	Lower	Upper
108	100		
106	107.1	86.6	130.0
79	19.1	15.5	23.3





#15

Acetone

Concen: 7.625 ppbv

RT: 4.01 min Scan# 908

Delta R.T. 0.00 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1591936

Ion Ratio Lower Upper

43 100

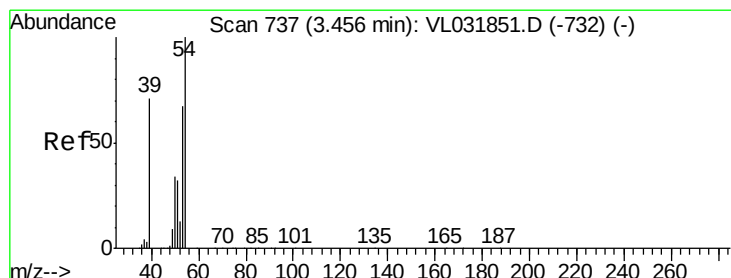
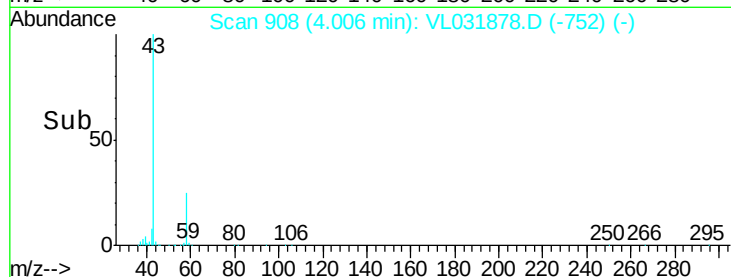
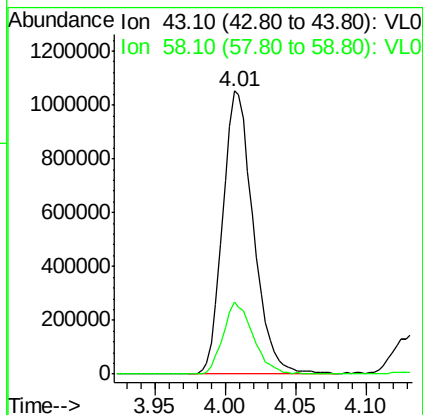
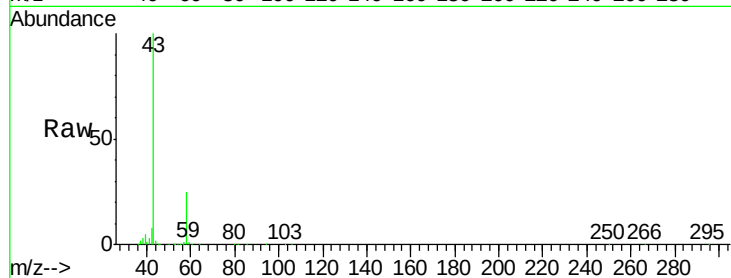
58 25.0 20.9 31.3

Manual Integrations

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#16

1,3-Butadiene

Concen: 8.877 ppbv

RT: 3.46 min Scan# 737

Delta R.T. -0.00 min

Lab File: VL031878.D

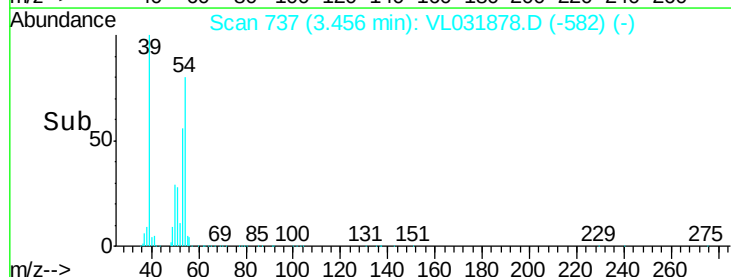
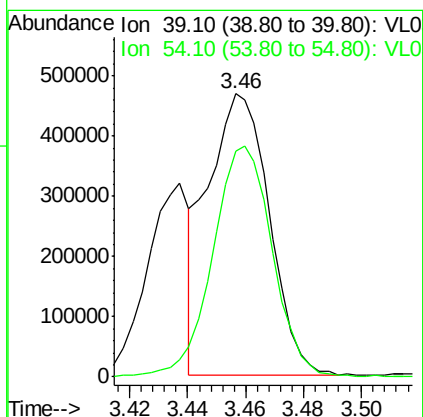
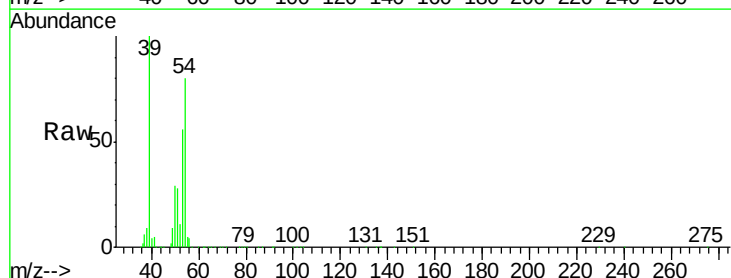
Acq: 12 Apr 2018 23:19

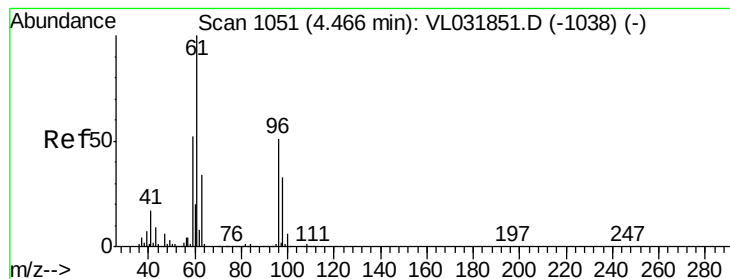
Tgt Ion: 39 Resp: 685750

Ion Ratio Lower Upper

39 100

54 80.0 63.3 94.9





#17

tert-Butyl alcohol

Concen: 7.725 ppbv

RT: 4.47 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 59 Resp: 666529

Ion Ratio Lower Upper

59 100

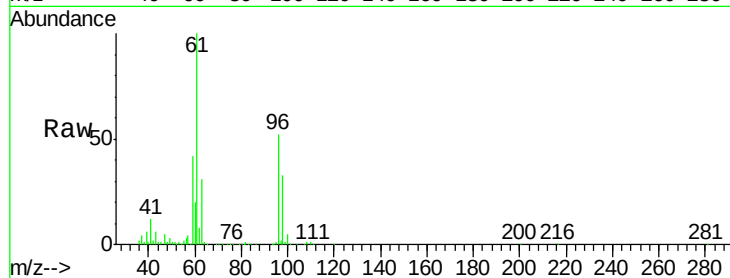
57 9.9 8.5 12.7

Manual Integrations

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Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

4.47

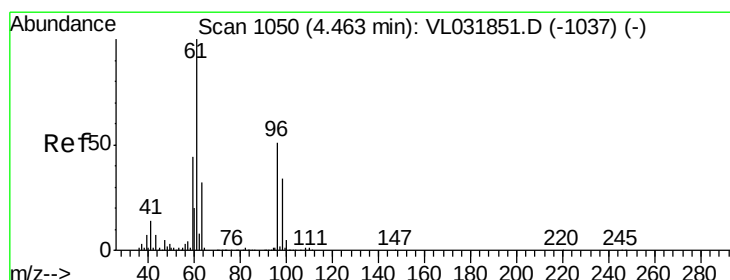
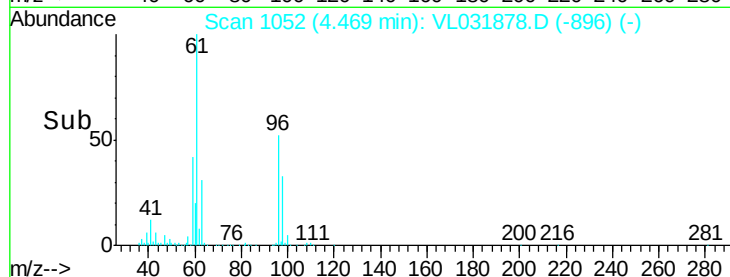
300000

200000

100000

0

Time-->



#18

1,1-Dichloroethene

Concen: 8.816 ppbv

RT: 4.47 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

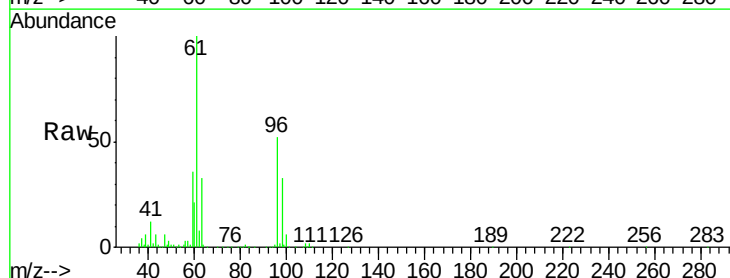
Tgt Ion: 96 Resp: 675103

Ion Ratio Lower Upper

96 100

61 193.7 161.0 241.6

98 63.2 52.7 79.1



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

4.47

1000000

800000

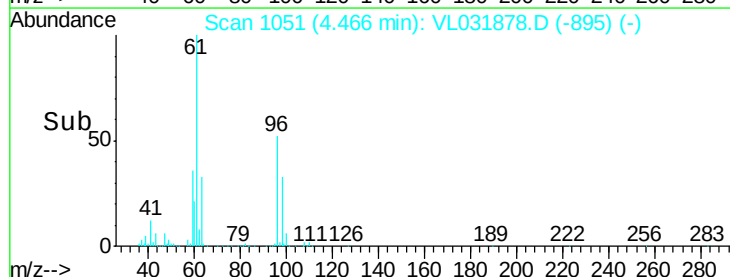
600000

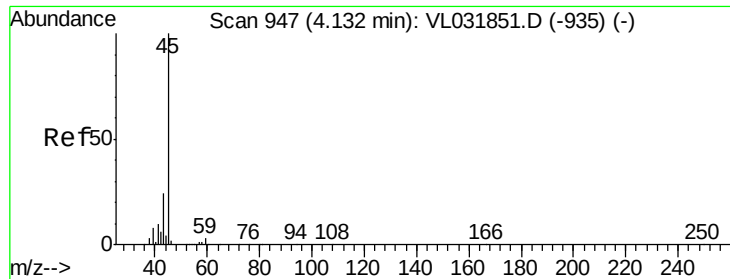
400000

200000

0

Time-->





#19

Isopropyl Alcohol

Concen: 8.876 ppbv

RT: 4.13 min Scan# 946

Delta R.T. -0.00 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 1035127

Ion Ratio Lower Upper

45 100

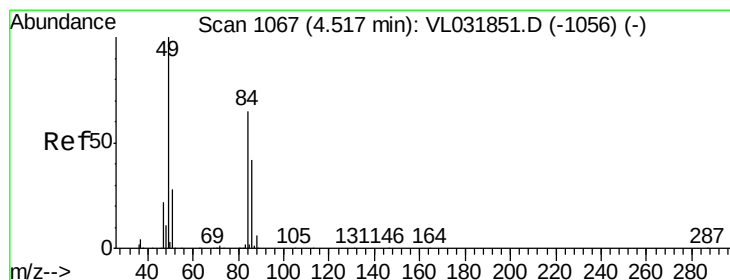
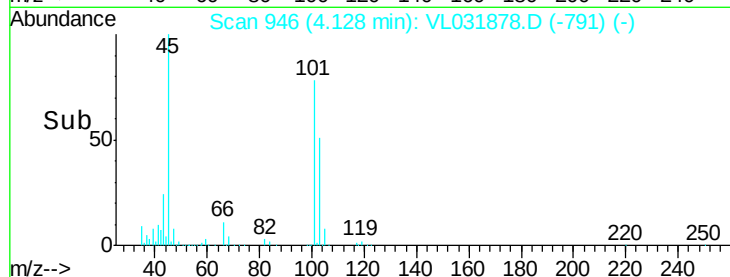
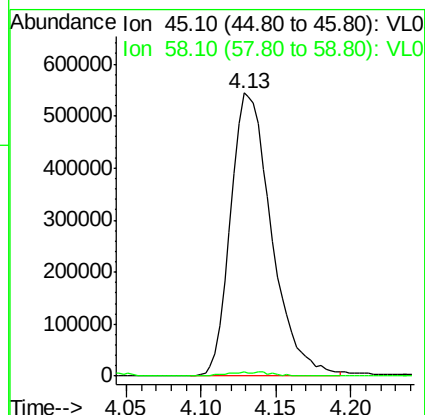
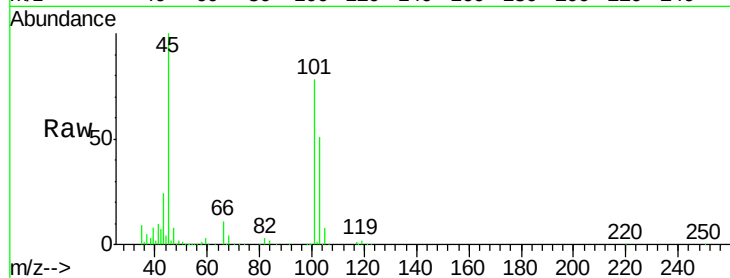
58 1.7 1.7 2.5#

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#20

Methylene Chloride

Concen: 8.163 ppbv

RT: 4.52 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

Tgt Ion: 84 Resp: 620761

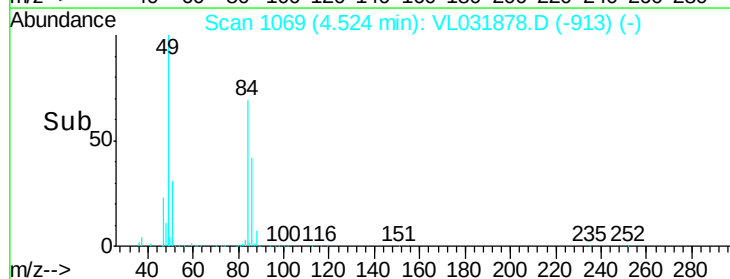
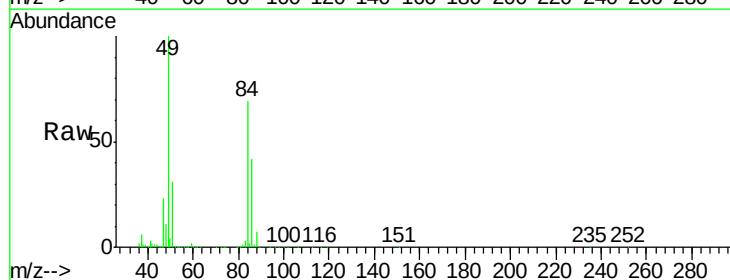
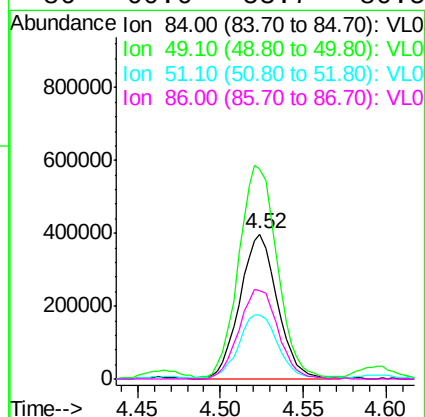
Ion Ratio Lower Upper

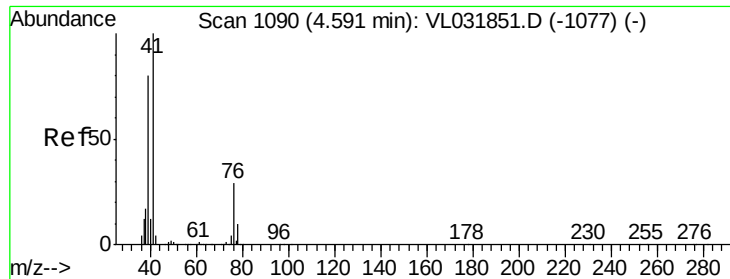
84 100

49 143.0 125.6 188.4

51 43.5 36.4 54.6

86 60.6 53.7 80.5





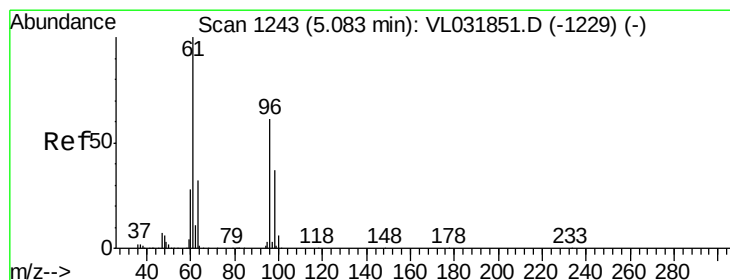
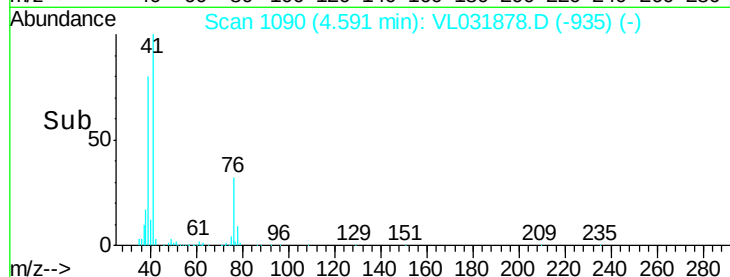
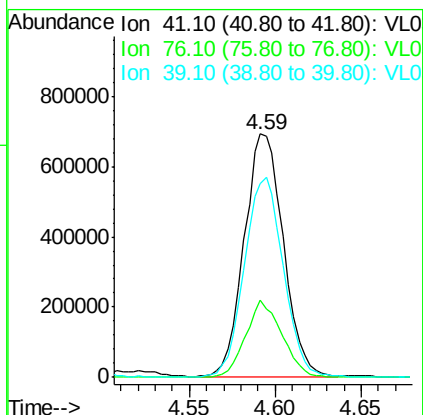
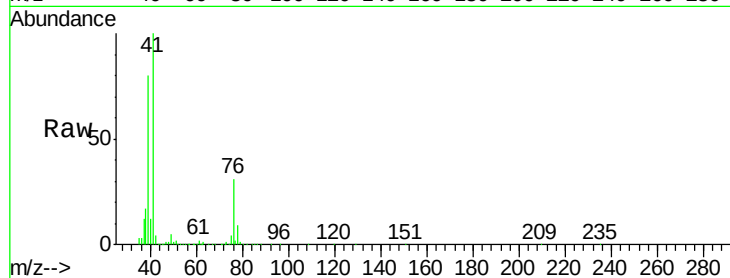
#21
Allvl Chloride
Concen: 9.160 ppbv
RT: 4.59 min Scan# 1090
Delta R.T. -0.00 min
Lab File: VL031878.D
Acq: 12 Apr 2018 23:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	29.6	23.4	35.2
39	82.1	67.6	101.4

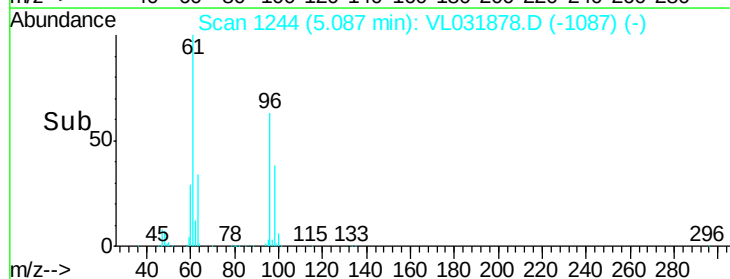
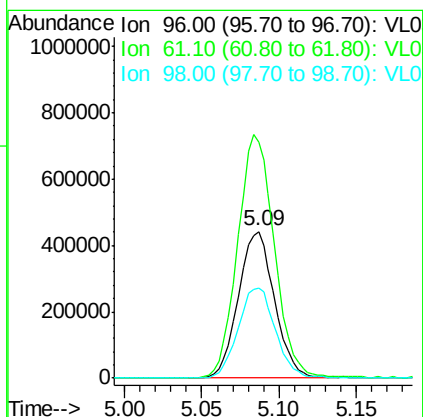
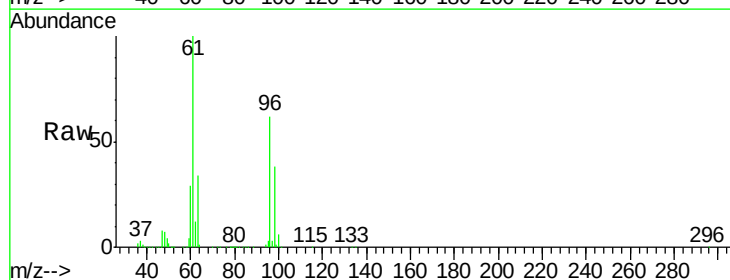
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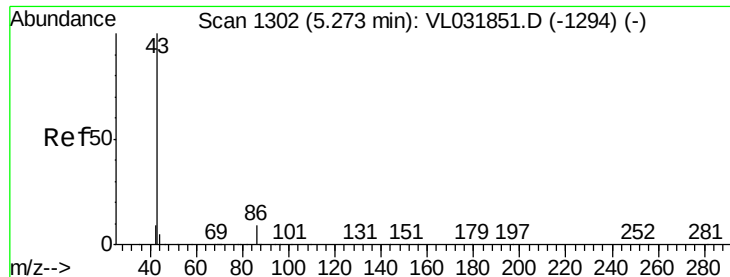
MMDadoda
4/15/2018 3:08:19 PM



#22
trans-1,2-Dichloroethene
Concen: 9.046 ppbv
RT: 5.09 min Scan# 1244
Delta R.T. 0.01 min
Lab File: VL031878.D
Acq: 12 Apr 2018 23:19

Tgt Ion	Ratio	Lower	Upper
96	100		
61	160.8	131.1	196.7
98	61.1	47.6	71.4





#23

Vinyl Acetate

Concen: 9.769 ppbv

RT: 5.28 min Scan# 1304

Delta R.T. 0.00 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2068193

Ion Ratio Lower Upper

43 100

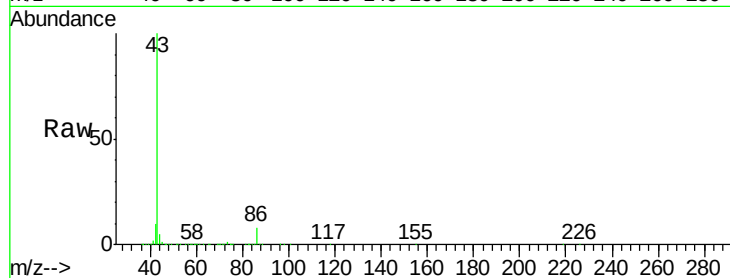
86 7.8 5.8 8.8

42 10.2 8.5 12.7

44 4.7 4.2 6.4

Manual Integrations
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MMDadoda
4/15/2018 3:08:19 PM

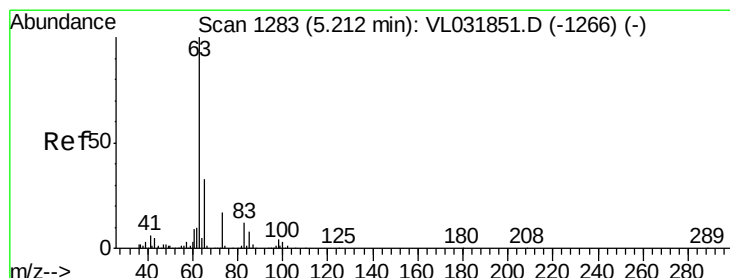
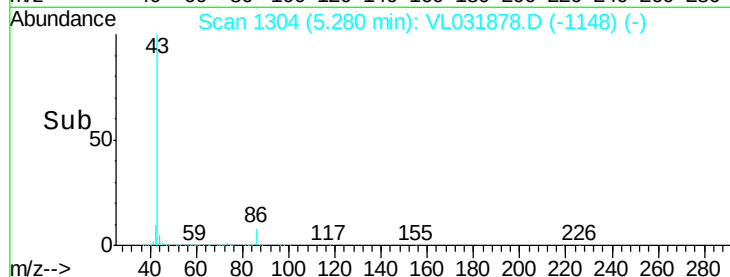
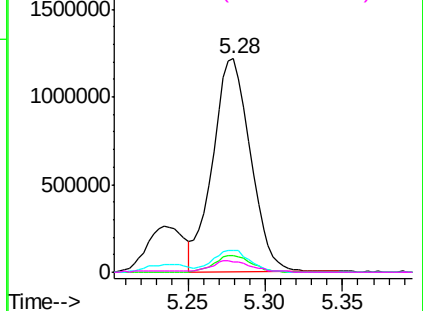


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.058 ppbv

RT: 5.22 min Scan# 1284

Delta R.T. 0.00 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

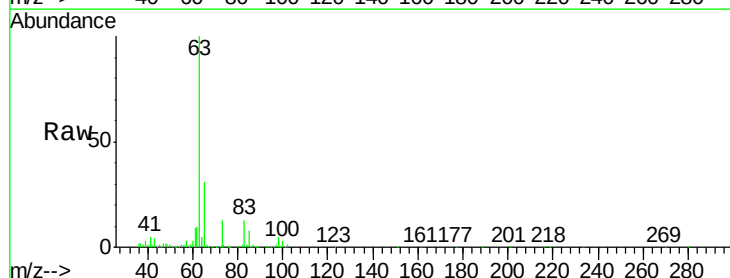
Tgt Ion: 63 Resp: 1910539

Ion Ratio Lower Upper

63 100

98 4.7 2.4 7.2

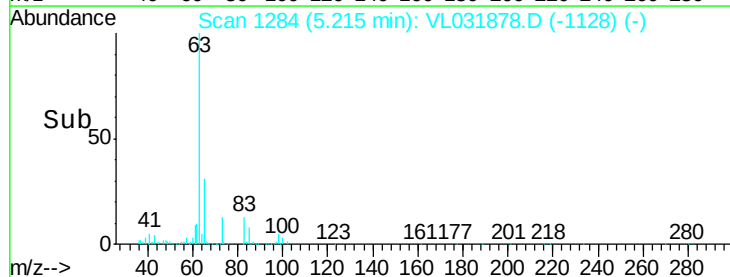
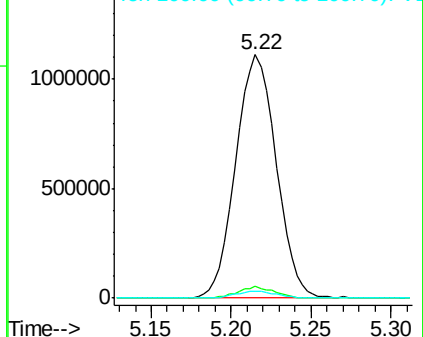
100 2.6 1.5 4.4

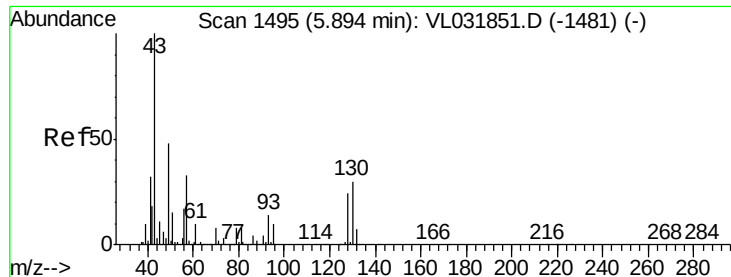


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





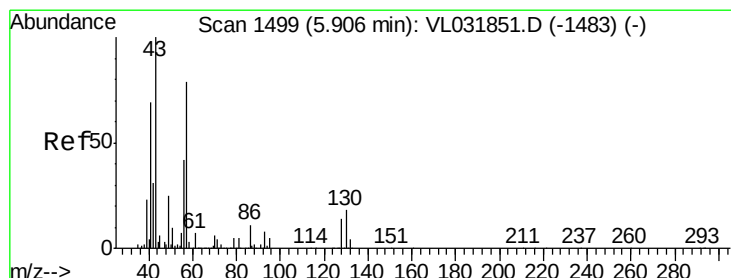
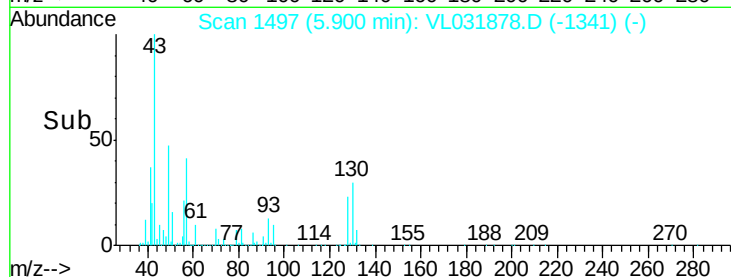
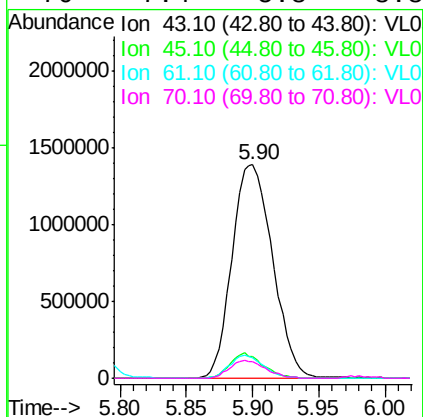
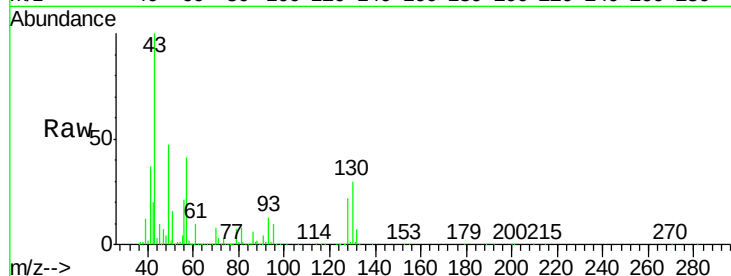
#25
Ethyl Acetate
Concen: 9.068 ppbv
RT: 5.90 min Scan# 1497
Delta R.T. 0.00 min
Lab File: VL031878.D
Acq: 12 Apr 2018 23:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	9.5	7.8	11.8	
61	9.1	7.2	10.8	
70	7.4	5.8	8.8	

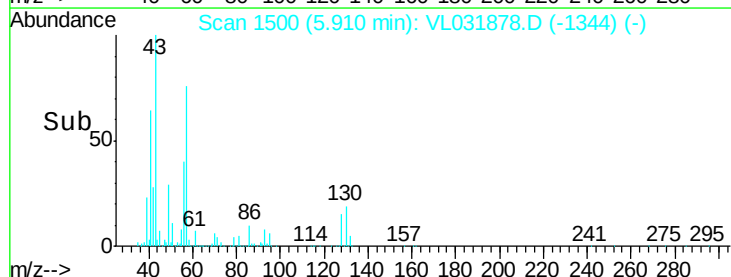
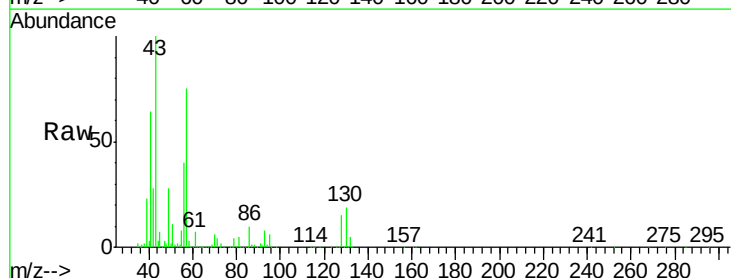
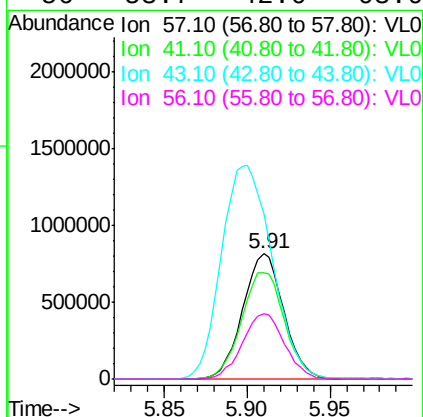
Manual Integrations
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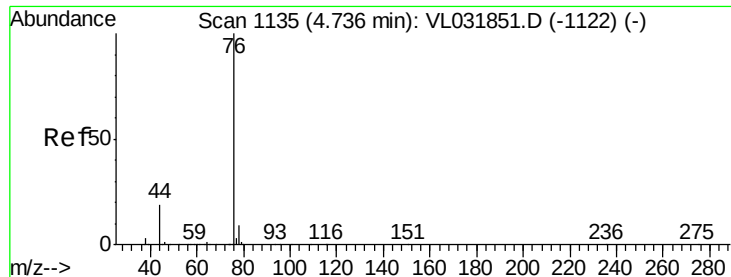
MMDadoda
4/15/2018 3:08:19 PM



#26
Hexane
Concen: 9.233 ppbv
RT: 5.91 min Scan# 1500
Delta R.T. 0.00 min
Lab File: VL031878.D
Acq: 12 Apr 2018 23:19

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	90.6	72.0	108.0	
43	211.6	169.8	254.8	
56	53.7	42.0	63.0	





#27

Carbon Disulfide

Concen: 8.998 ppbv

RT: 4.74 min Scan# 1136

Delta R.T. 0.00 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1773518

Ion Ratio Lower Upper

76 100

44 19.3 15.6 23.4

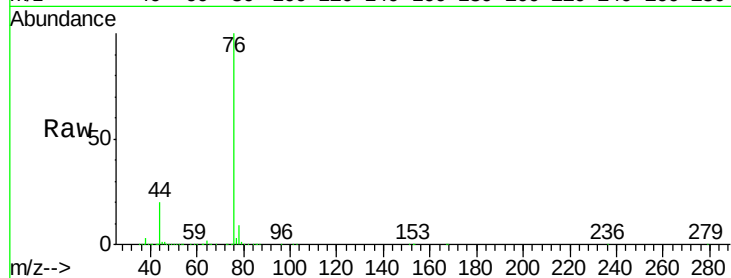
78 9.3 7.6 11.4

Manual Integrations

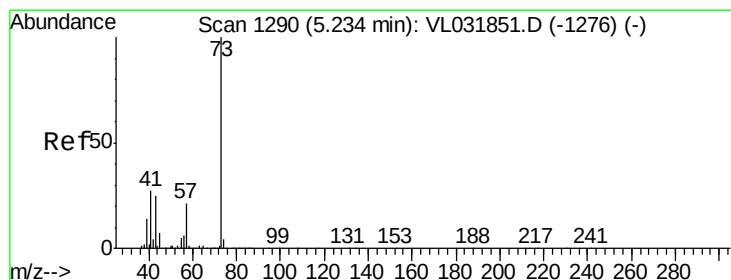
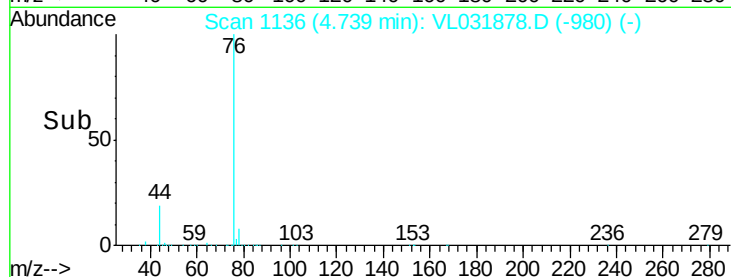
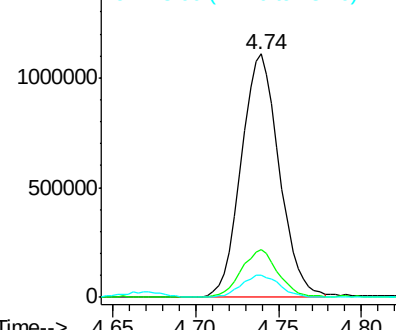
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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 9.681 ppbv

RT: 5.24 min Scan# 1291

Delta R.T. 0.01 min

Lab File: VL031878.D

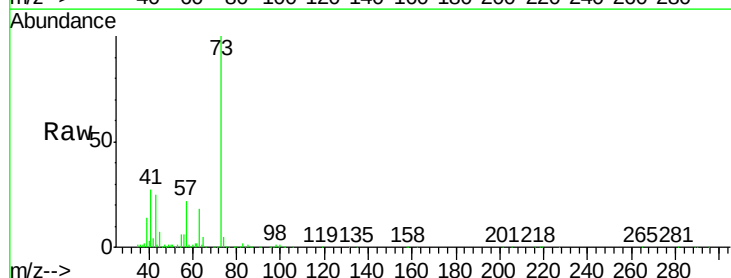
Acq: 12 Apr 2018 23:19

Tgt Ion: 73 Resp: 1808670

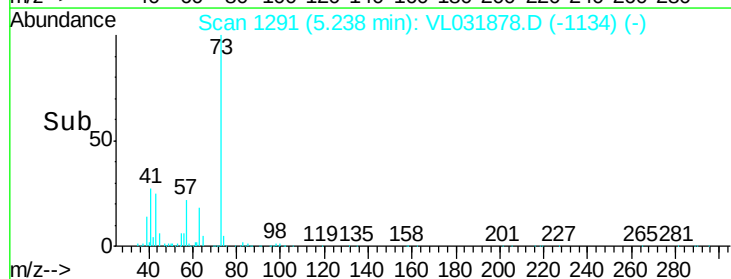
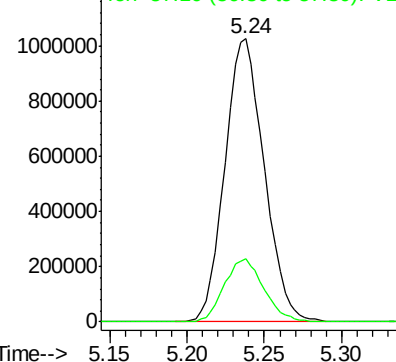
Ion Ratio Lower Upper

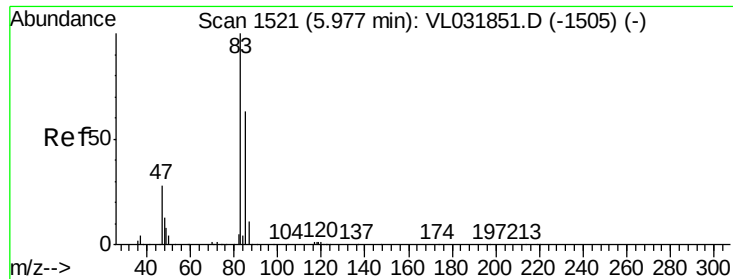
73 100

57 22.6 17.6 26.4



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





#29

Chloroform

Concen: 8.688 ppbv

RT: 5.98 min Scan# 1522

Delta R.T. -0.00 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 2235923

Ion Ratio Lower Upper

83 100

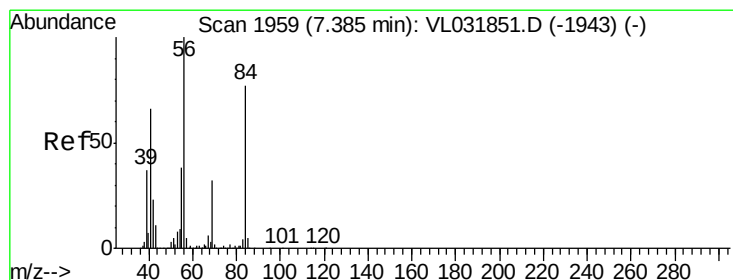
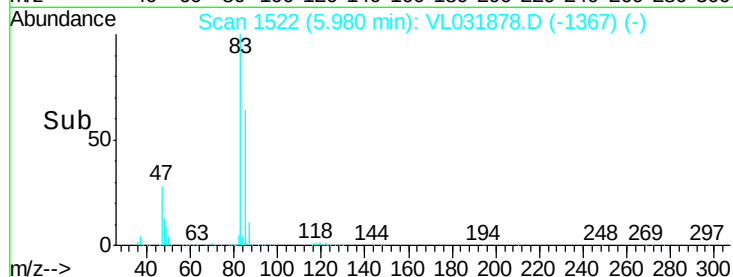
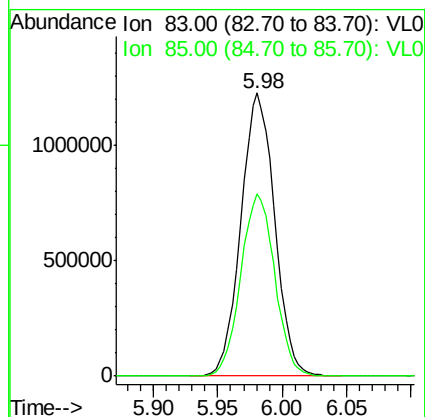
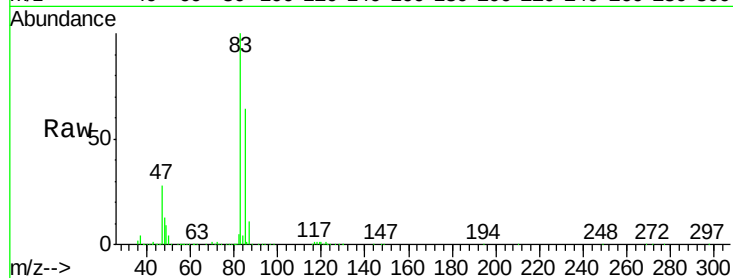
85 64.3 51.4 77.0

Manual Integrations

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#30

Cyclohexane

Concen: 9.182 ppbv

RT: 7.39 min Scan# 1961

Delta R.T. 0.00 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

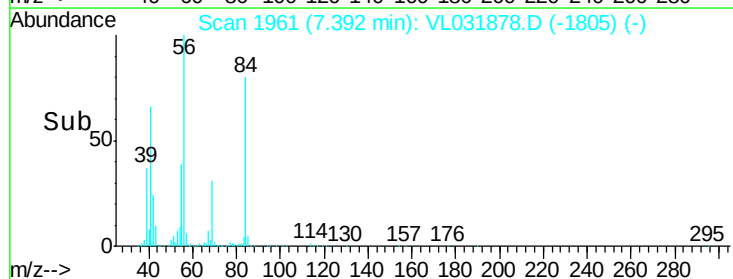
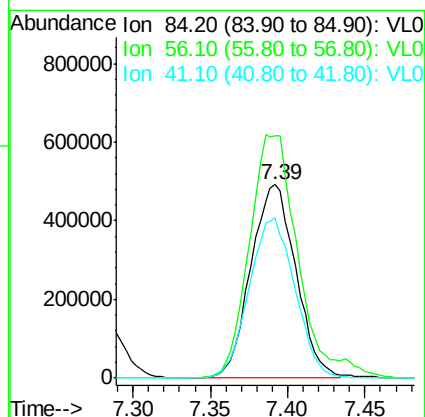
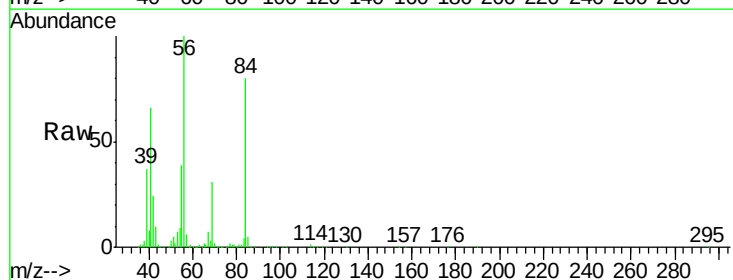
Tgt Ion: 84 Resp: 995520

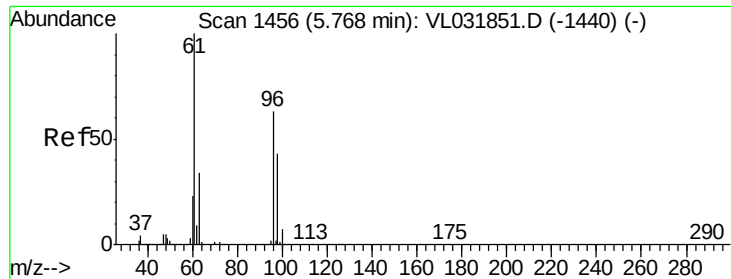
Ion Ratio Lower Upper

84 100

56 136.9 107.7 161.5

41 84.1 68.2 102.2





#31

cis-1,2-Dichloroethene

Concen: 9.488 ppbv

RT: 5.77 min Scan# 1456

Delta R.T. 0.00 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

Instrument :

MSVOA_L

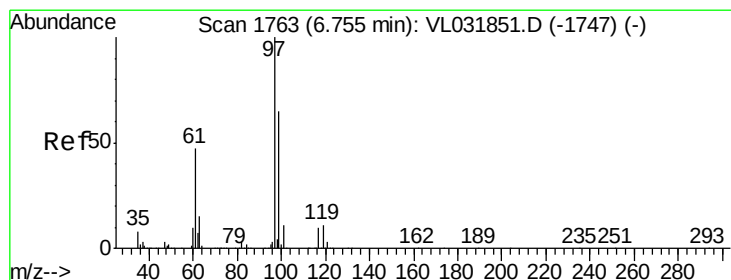
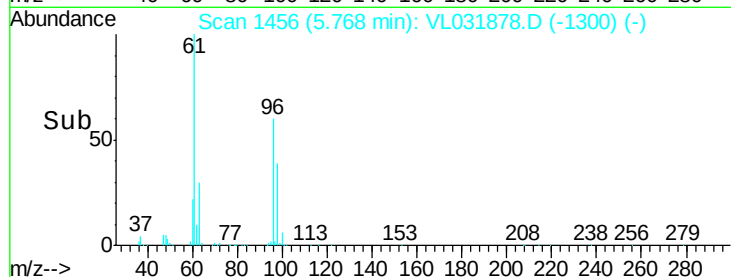
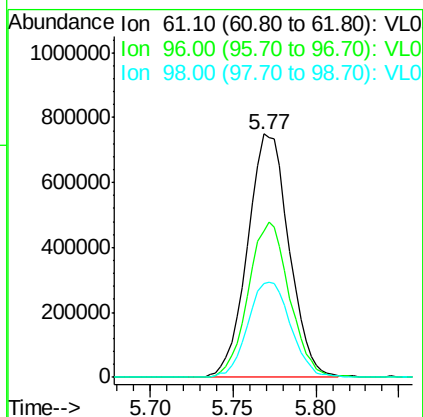
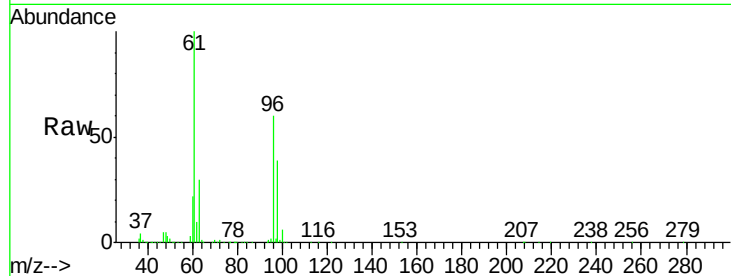
ClientSampleId :

VSTDCCC010EC

Tot Ion:	61	Resp:	1304925
Ion	Ratio	Lower	Upper
61	100		
96	60.0	47.6	71.4
98	38.7	30.3	45.5

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 8.052 ppbv

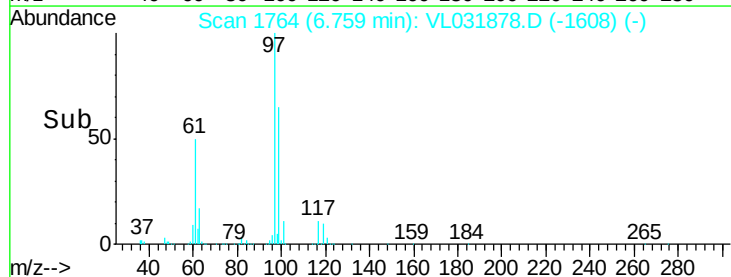
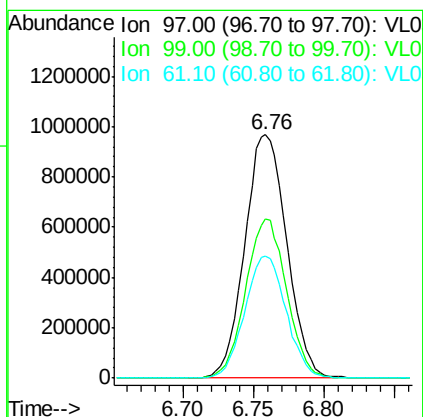
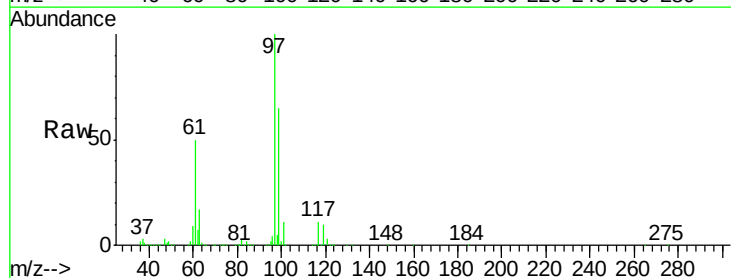
RT: 6.76 min Scan# 1764

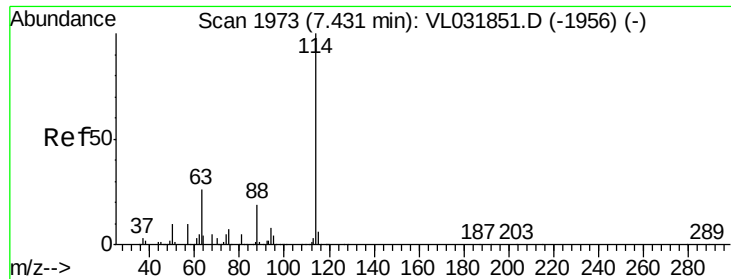
Delta R.T. 0.00 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

Tgt Ion:	97	Resp:	2018133
Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.5	77.3
61	49.4	40.0	60.0





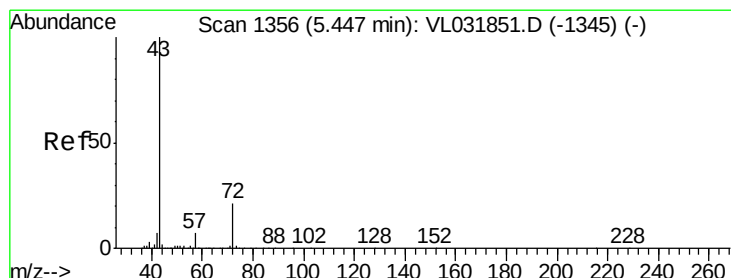
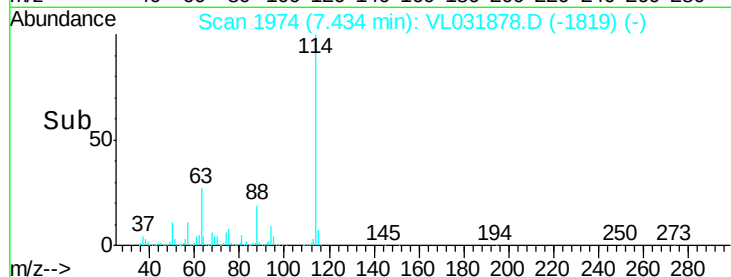
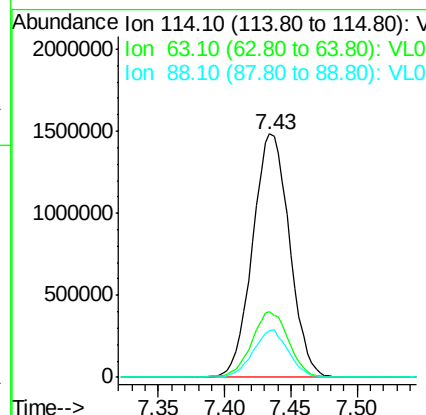
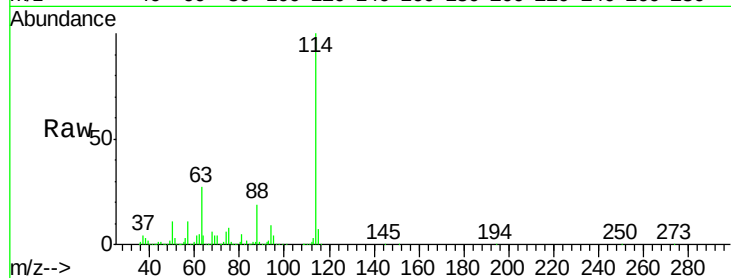
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.43 min Scan# 1974
 Delta R.T. -0.00 min
 Lab File: VL031878.D
 Acq: 12 Apr 2018 23:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.3	21.8	32.6
88	18.7	14.6	22.0

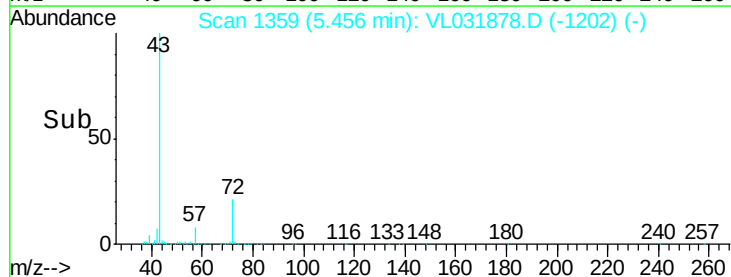
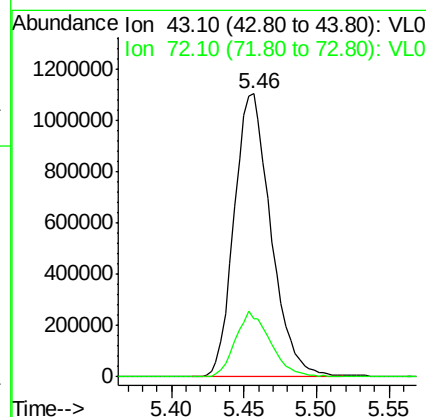
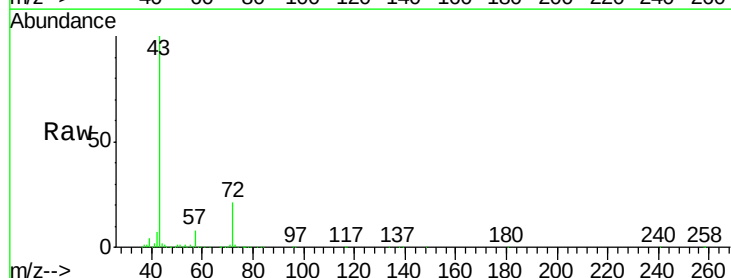
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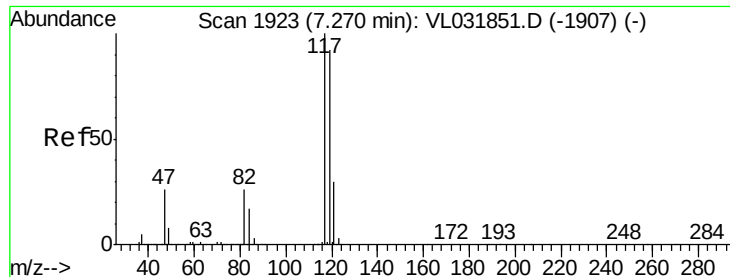
MMDadoda
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#34
 2-Butanone
 Concen: 9.682 ppbv
 RT: 5.46 min Scan# 1359
 Delta R.T. 0.01 min
 Lab File: VL031878.D
 Acq: 12 Apr 2018 23:19

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.3	18.6	27.8





#35

Carbon Tetrachloride

Concen: 8.190 ppbv

RT: 7.28 min Scan# 1925

Delta R.T. 0.00 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 2045099

Ion Ratio Lower Upper

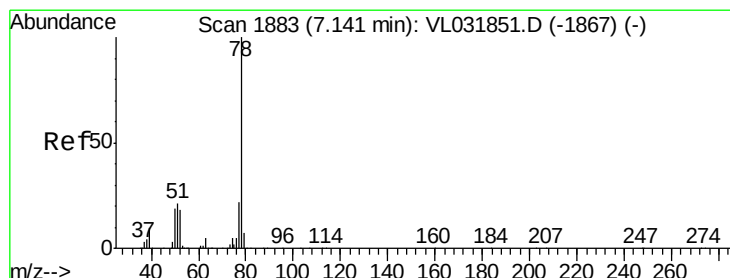
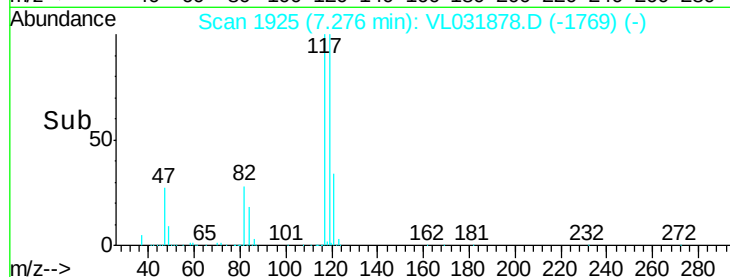
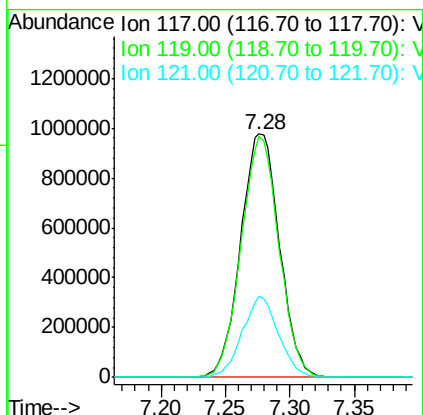
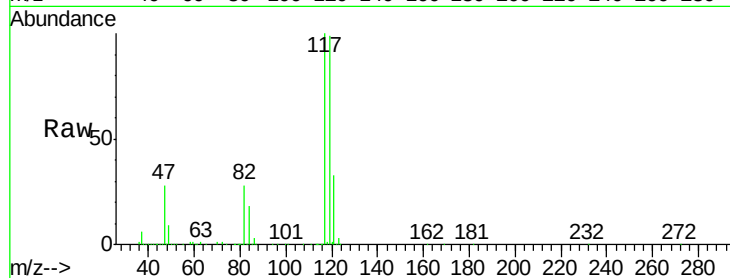
117 100

119 99.1 76.9 115.3

121 33.2 24.5 36.7

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#36

Benzene

Concen: 9.322 ppbv

RT: 7.15 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

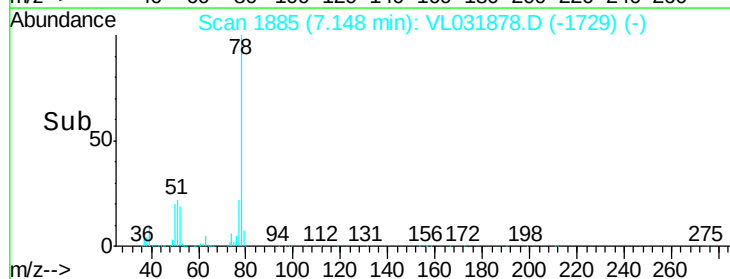
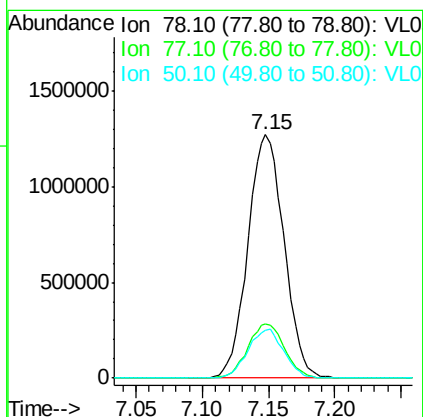
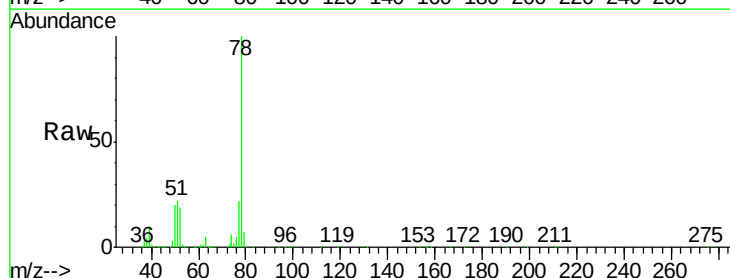
Tgt Ion: 78 Resp: 2410727

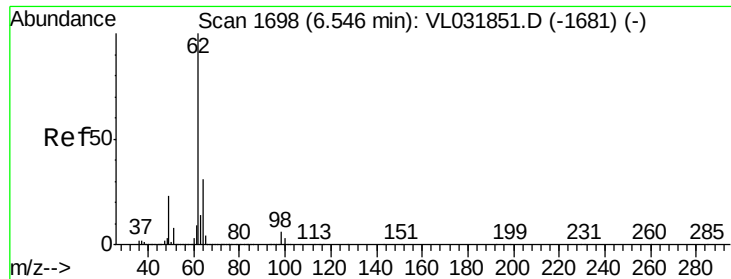
Ion Ratio Lower Upper

78 100

77 22.0 19.2 28.8

50 19.8 16.7 25.1





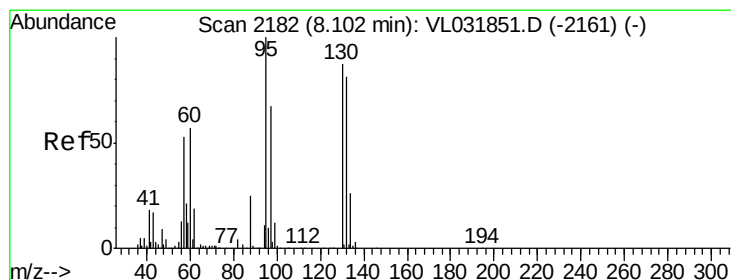
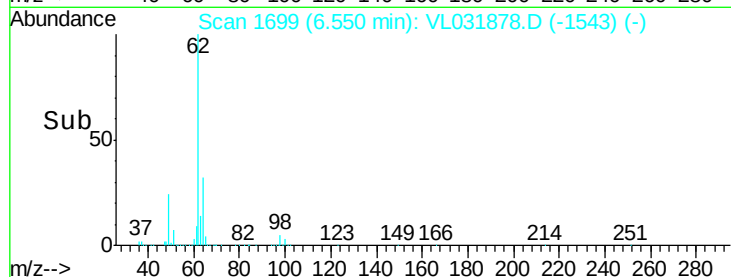
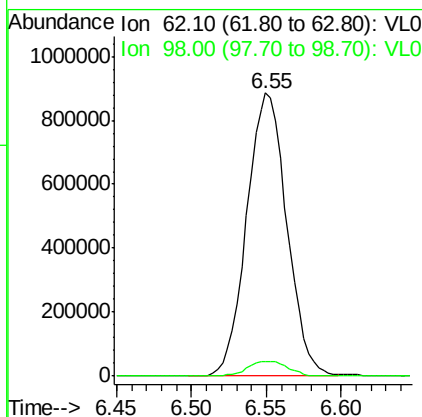
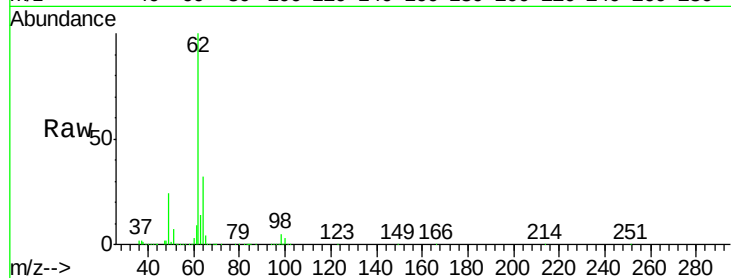
#37
 1,2-Dichloroethane
 Concen: 8.576 ppbv
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VL031878.D
 Acq: 12 Apr 2018 23:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.4	4.0	6.0

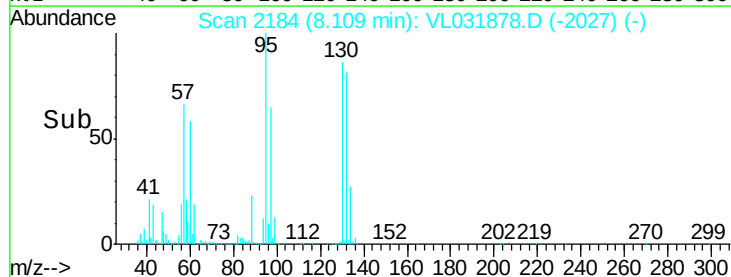
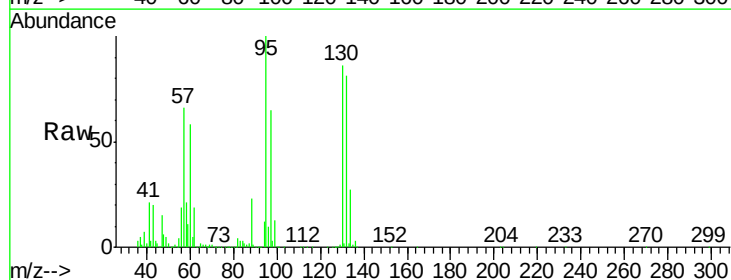
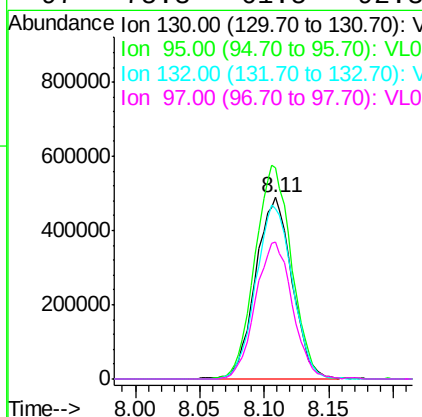
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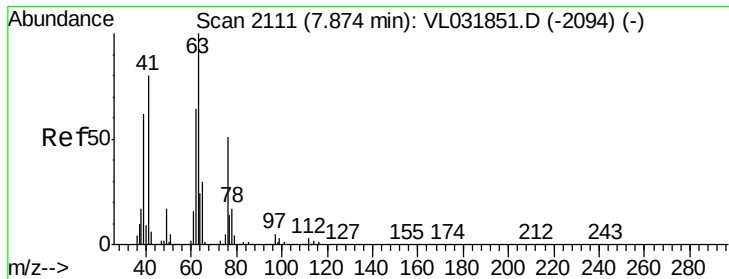
MMDadoda
 4/15/2018 3:08:19 PM



#38
 Trichloroethene
 Concen: 9.166 ppbv
 RT: 8.11 min Scan# 2184
 Delta R.T. 0.01 min
 Lab File: VL031878.D
 Acq: 12 Apr 2018 23:19

Tgt Ion	Ratio	Lower	Upper
130	100		
95	116.1	96.6	144.8
132	93.6	79.1	118.7
97	75.3	61.5	92.3





#39

1,2-Dichloropropane

Concen: 9.025 ppbv

RT: 7.88 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

Instrument :

MSVOA_L

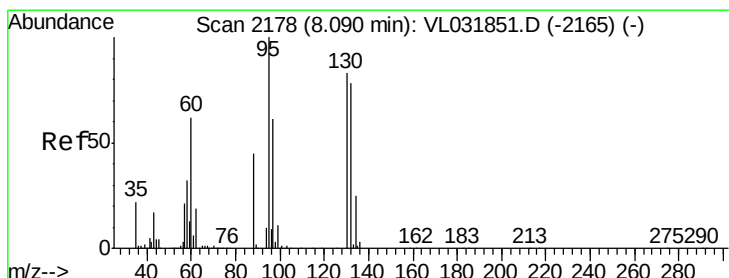
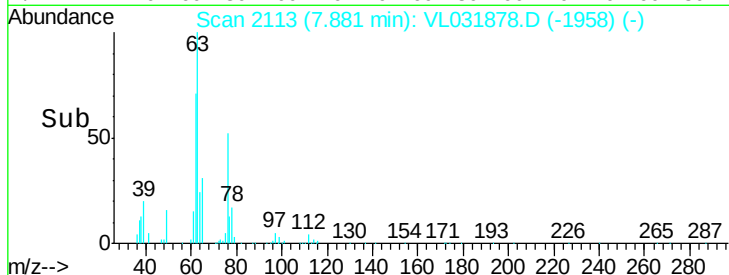
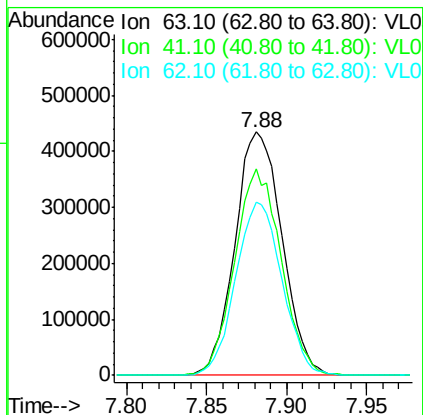
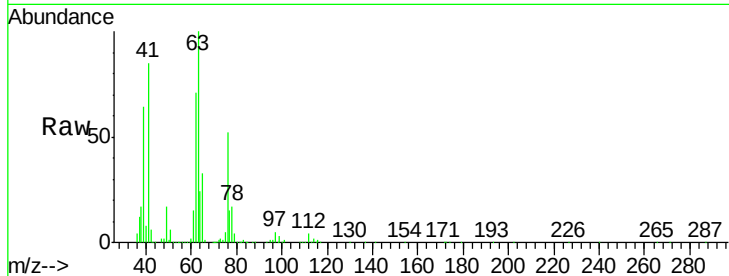
ClientSampleId :

VSTDCCC010EC

Tot Ion:	63	Resp:	867633
Ion Ratio	Lower	Upper	
63	100		
41	84.5	65.8	98.6
62	70.8	55.0	82.6

Manual Integrations
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#40

1,4-Dioxane

Concen: 9.180 ppbv

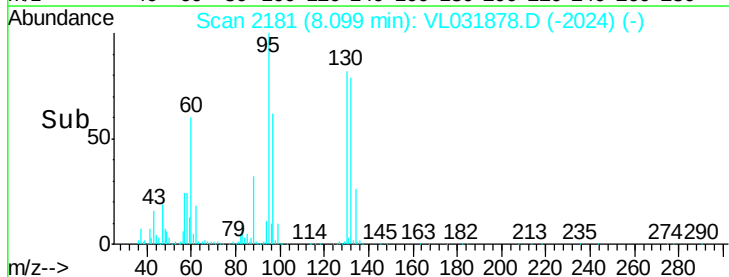
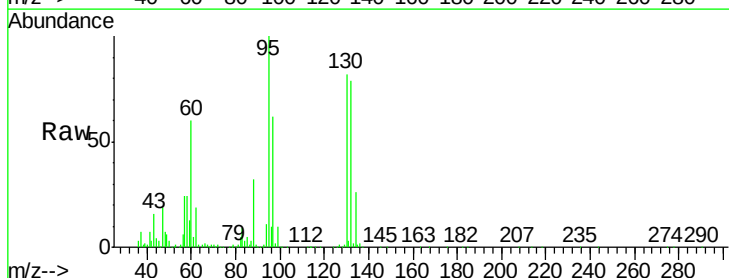
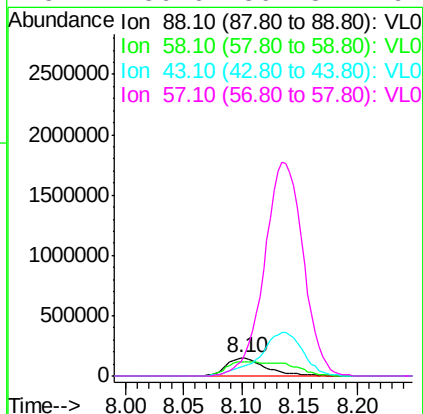
RT: 8.10 min Scan# 2181

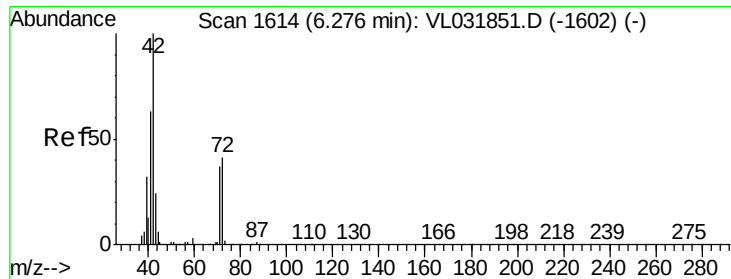
Delta R.T. 0.01 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

Tgt Ion:	88	Resp:	358210
Ion Ratio	Lower	Upper	
88	100		
58	132.0	98.5	147.7
43	263.1	194.3	291.5
57	1156.0	861.8	1292.6





#41

Tetrahydrofuran

Concen: 10.610 ppbv

RT: 6.28 min Scan# 1615

Delta R.T. -0.00 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

Instrument :

MSVOA_L

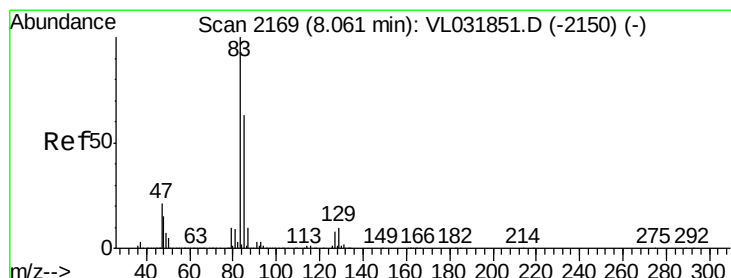
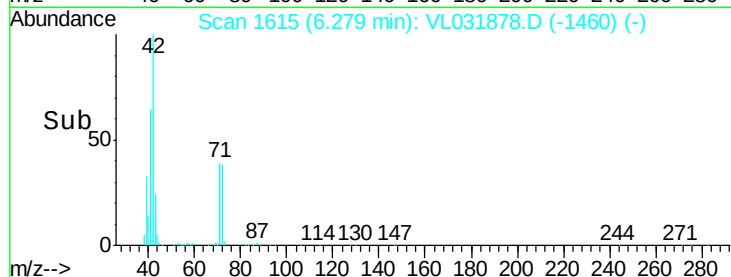
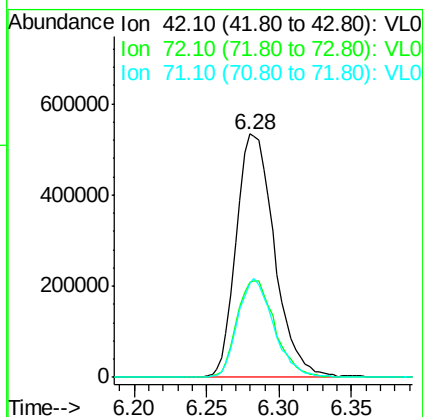
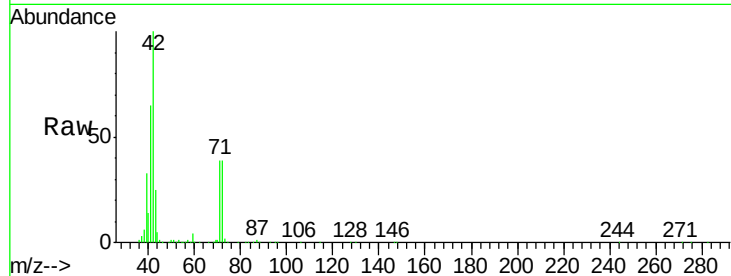
ClientSampleId :

VSTDCCC010EC

Tot Ion:	42	Resp:	979450
Ion	Ratio	Lower	Upper
42	100		
72	40.0	33.2	49.8
71	38.4	31.5	47.3

Manual Integrations
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#42

Bromodichloromethane

Concen: 8.924 ppbv

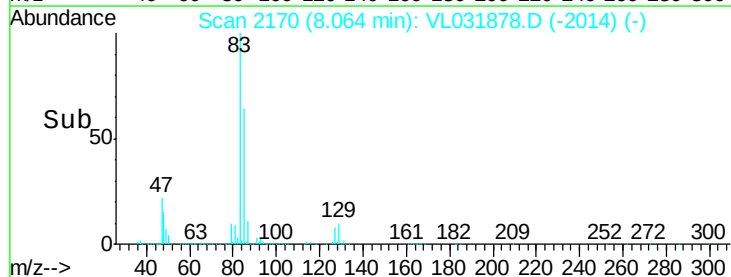
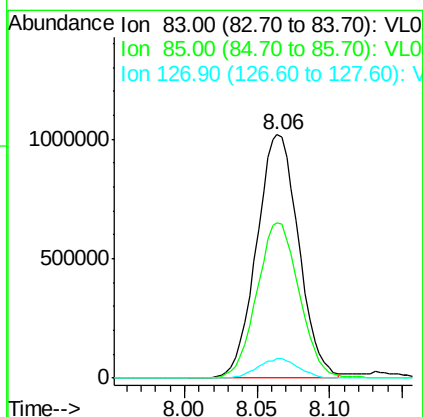
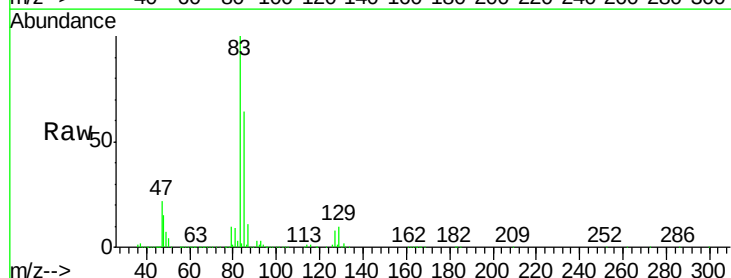
RT: 8.06 min Scan# 2170

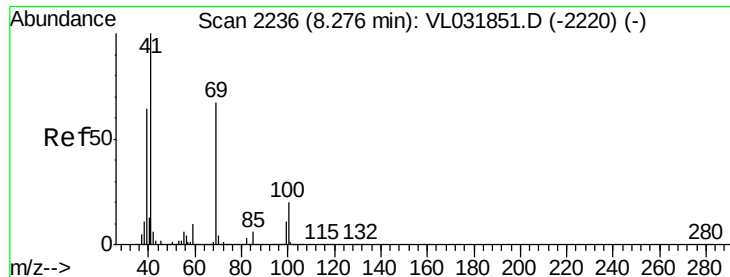
Delta R.T. 0.00 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

Tgt Ion:	83	Resp:	2054628
Ion	Ratio	Lower	Upper
83	100		
85	64.0	50.5	75.7
127	8.1	6.0	9.0





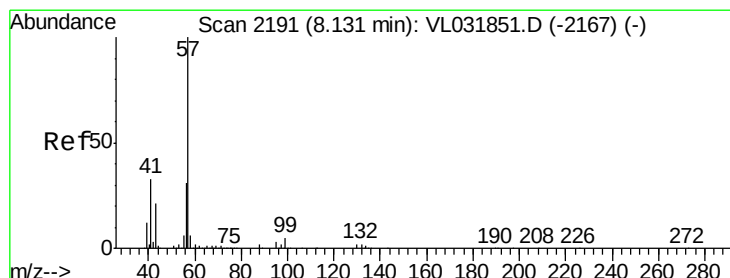
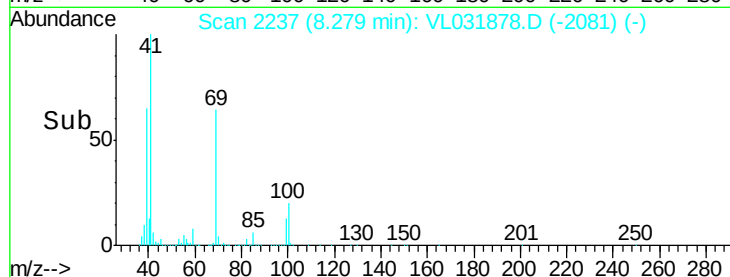
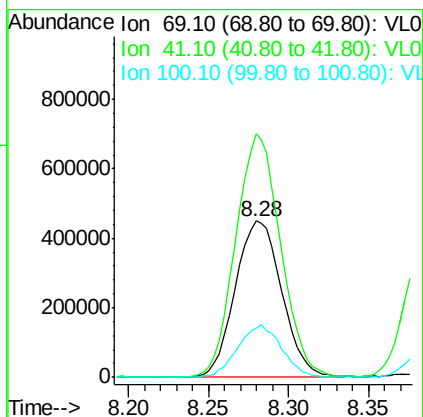
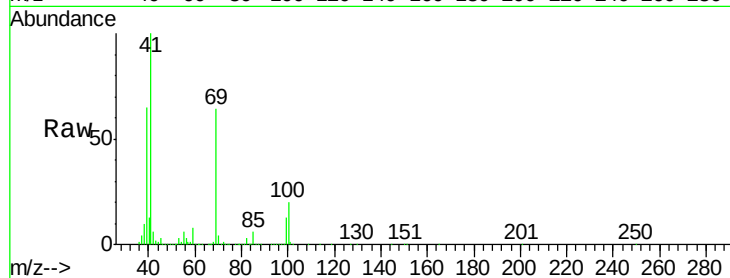
#43
Methyl Methacrylate
Concen: 9.792 ppbv
RT: 8.28 min Scan# 2237
Delta R.T. 0.00 min
Lab File: VL031878.D
Acq: 12 Apr 2018 23:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
69	100		
41	150.9	117.8	176.8
100	32.0	24.6	37.0

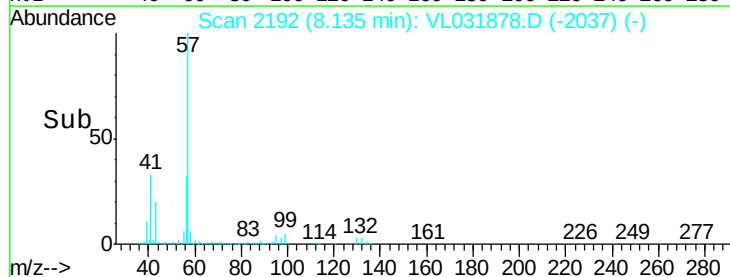
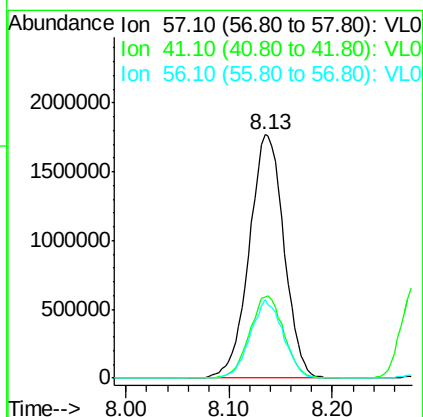
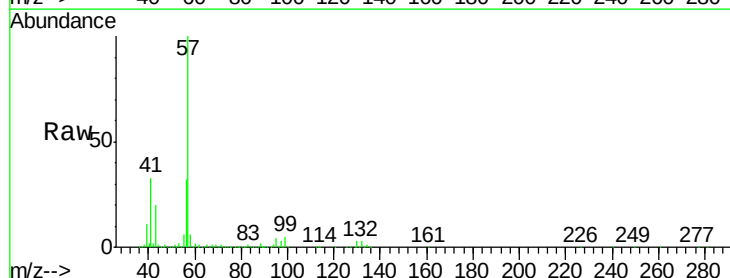
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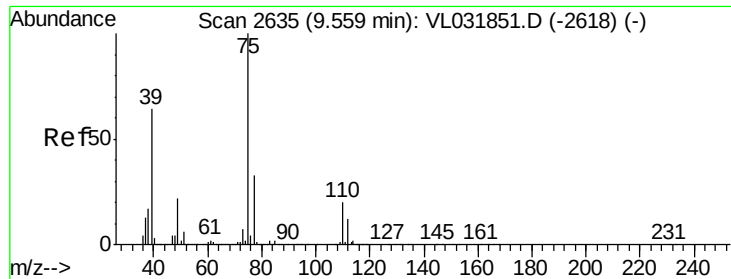
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 9.288 ppbv
RT: 8.13 min Scan# 2192
Delta R.T. -0.00 min
Lab File: VL031878.D
Acq: 12 Apr 2018 23:19

Tgt Ion	Ratio	Lower	Upper
57	100		
41	33.4	27.0	40.6
56	30.5	24.1	36.1





#45

t-1,3-Dichloropropene

Concen: 10.529 ppbv

RT: 9.57 min Scan# 2638

Delta R.T. 0.01 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 75 Resp: 1242698

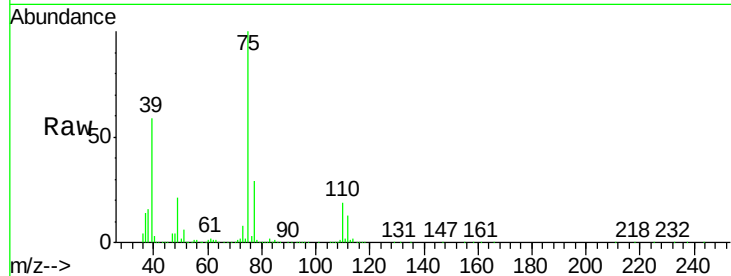
Ion Ratio Lower Upper

75 100

77 29.3 25.1 37.7

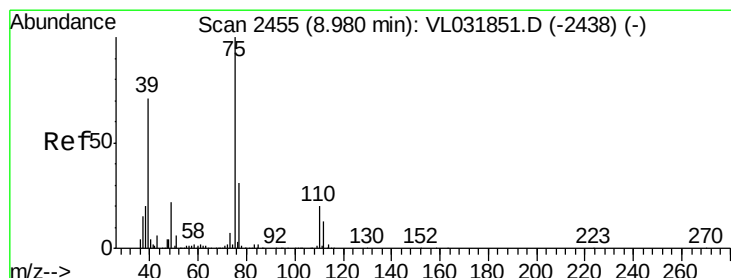
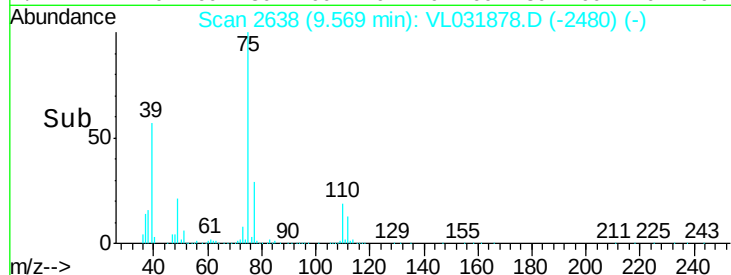
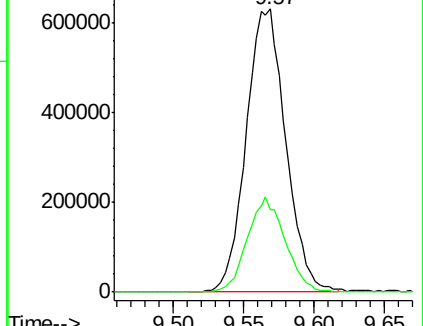
Manual Integrations
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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 10.107 ppbv

RT: 8.98 min Scan# 2456

Delta R.T. 0.00 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

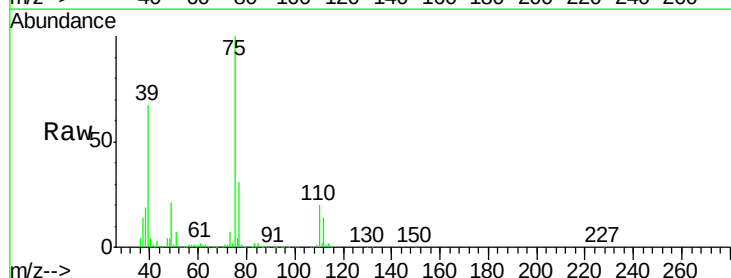
Tgt Ion: 75 Resp: 1524714

Ion Ratio Lower Upper

75 100

39 67.2 58.6 87.8

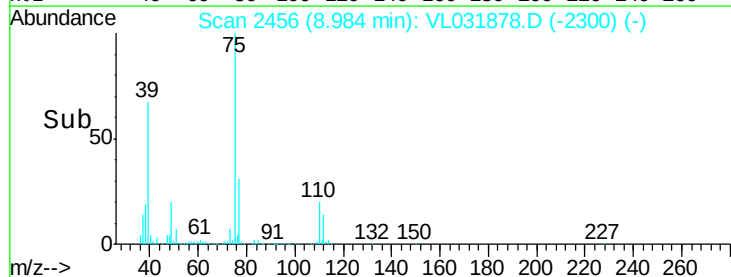
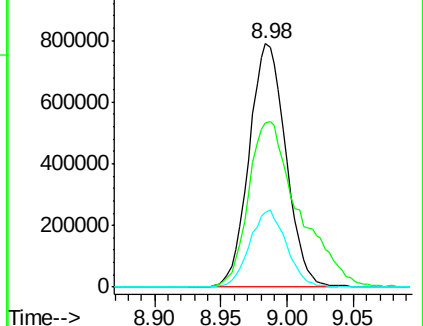
77 30.8 26.8 40.2

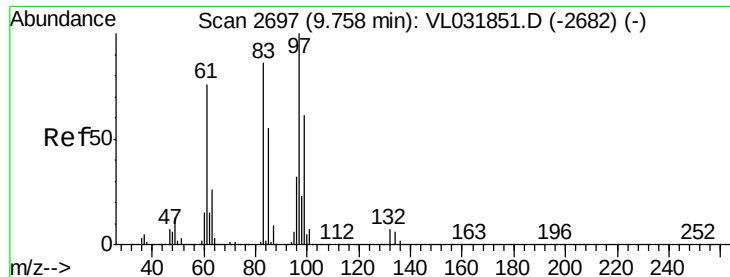


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





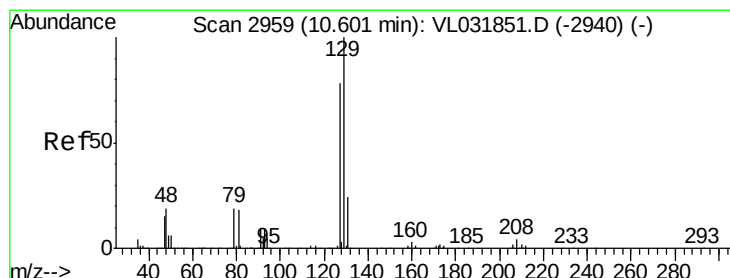
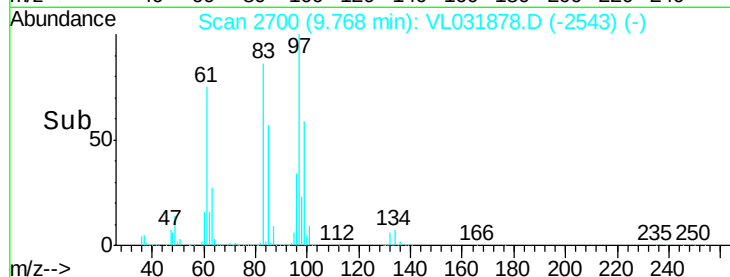
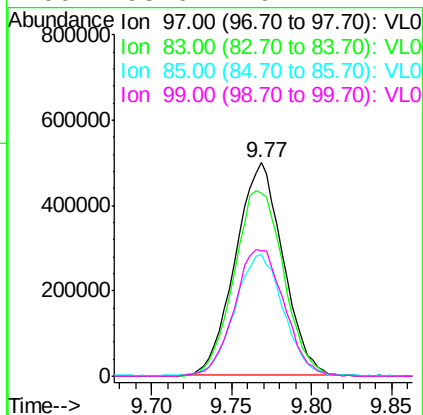
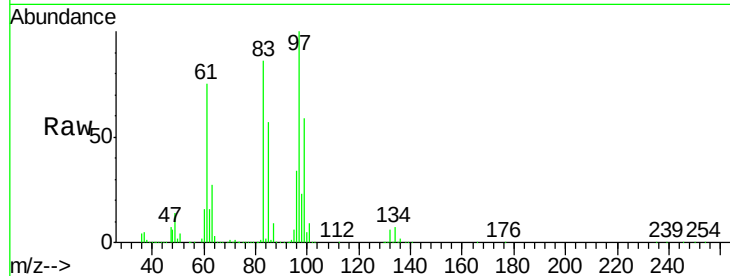
#47
 1,1,2-Trichloroethane
 Concen: 8.878 ppbv
 RT: 9.77 min Scan# 2700
 Delta R.T. 0.01 min
 Lab File: VL031878.D
 Acq: 12 Apr 2018 23:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	97	Resp	1014421
Ion	Ratio	Lower	Upper
97	100		
83	85.5	69.1	103.7
85	56.5	43.7	65.5
99	58.6	49.4	74.2

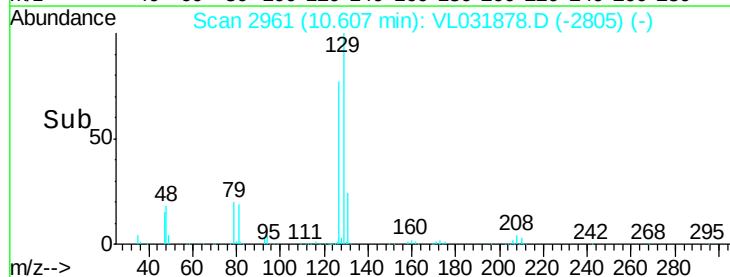
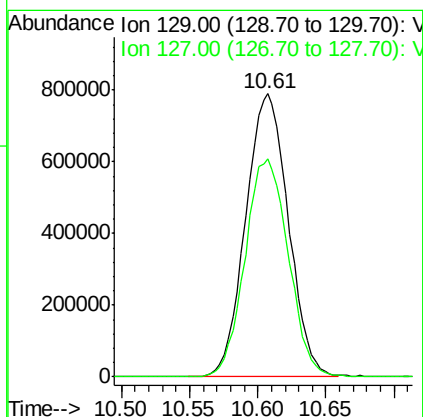
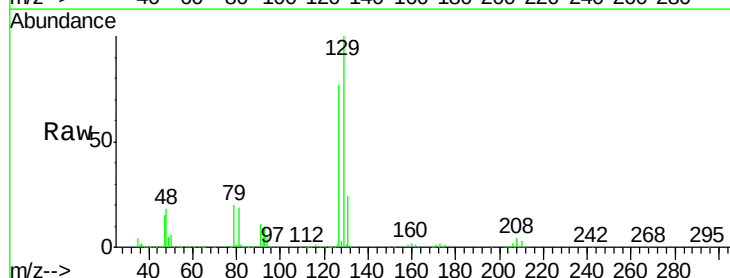
Manual Integrations
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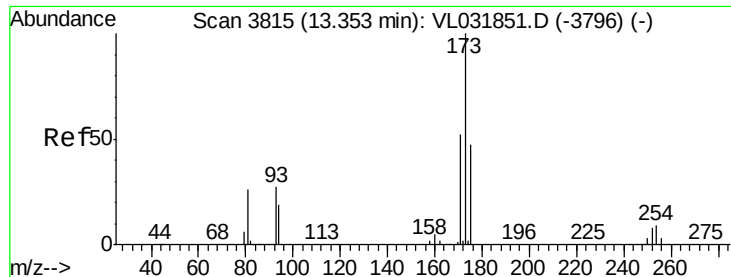
MMDadoda
 4/15/2018 3:08:19 PM



#48
 Dibromochloromethane
 Concen: 9.287 ppbv
 RT: 10.61 min Scan# 2961
 Delta R.T. 0.00 min
 Lab File: VL031878.D
 Acq: 12 Apr 2018 23:19

Tgt Ion	129	Resp	1714915
Ion	Ratio	Lower	Upper
129	100		
127	78.3	39.1	117.5





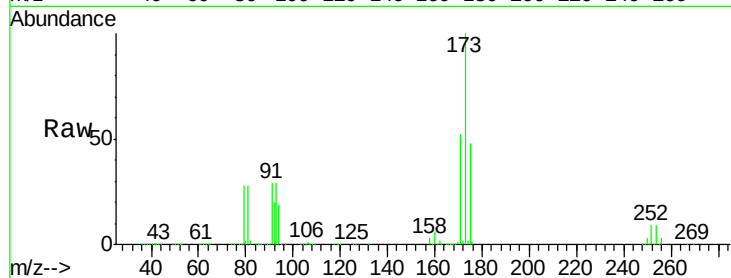
#49
Bromoform
Concen: 9.406 ppbv
RT: 13.36 min Scan# 3817
Delta R.T. -0.00 min
Lab File: VL031878.D
Acq: 12 Apr 2018 23:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.3	39.0	58.6
171	52.5	41.4	62.0

Manual Integrations
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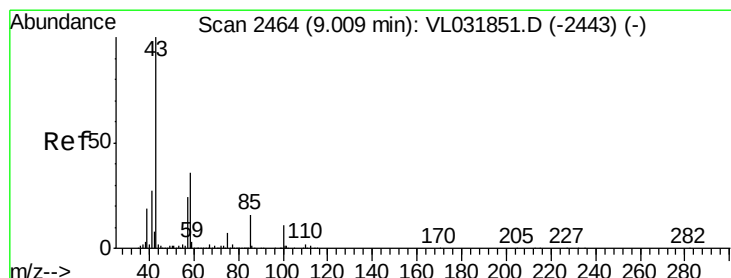
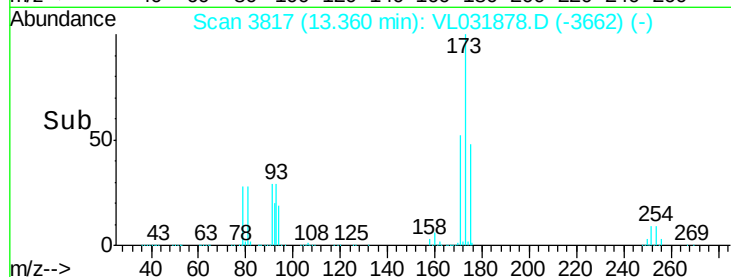
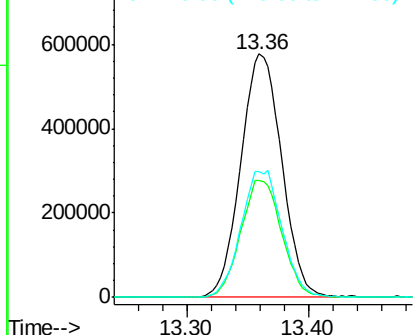


Abundance

Ion 172.90 (172.60 to 173.60): V

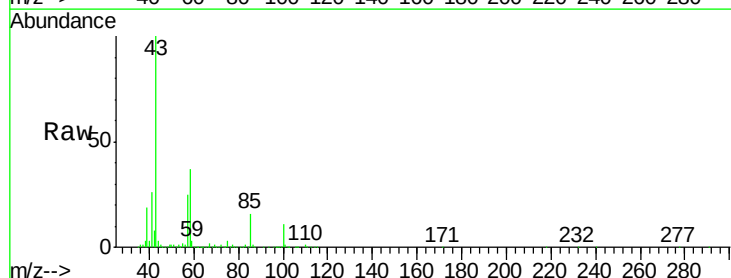
Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50
4-Methyl-2-Pentanone
Concen: 9.190 ppbv
RT: 9.02 min Scan# 2467
Delta R.T. 0.00 min
Lab File: VL031878.D
Acq: 12 Apr 2018 23:19

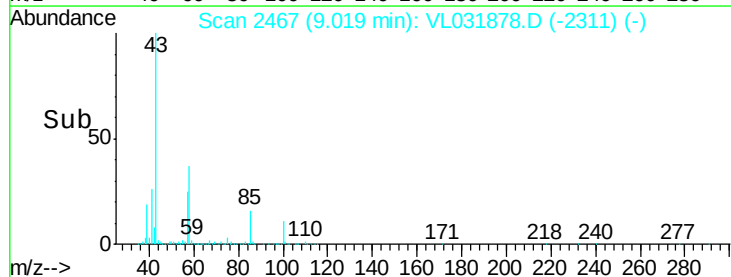
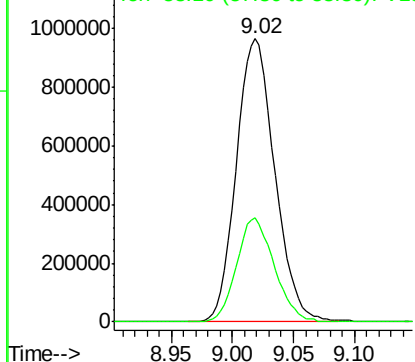
Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.1	28.6	43.0

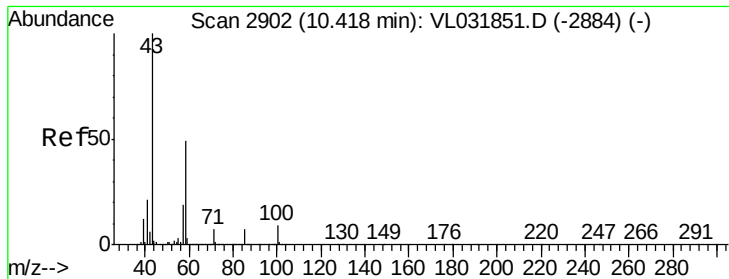


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 9.362 ppbv

RT: 10.42 min Scan# 2903

Delta R.T. 0.00 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1868180

Ion Ratio Lower Upper

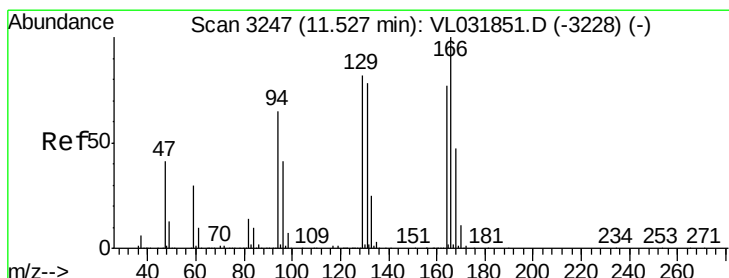
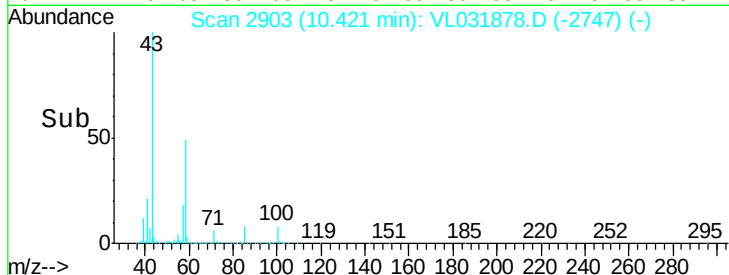
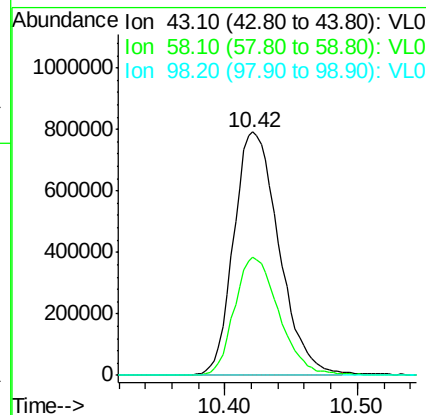
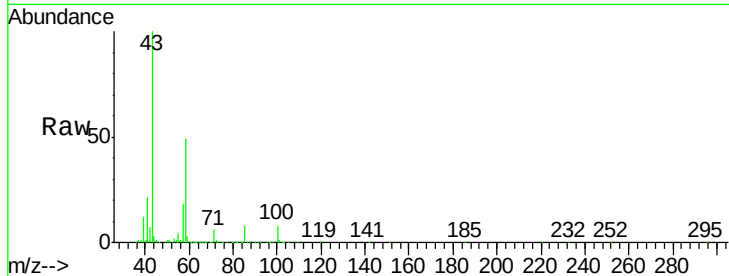
43 100

58 48.1 38.5 57.7

98 0.4 0.2 0.4#

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#52

Tetrachloroethene

Concen: 8.777 ppbv

RT: 11.53 min Scan# 3248

Delta R.T. 0.01 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

Tgt Ion: 164 Resp: 884332

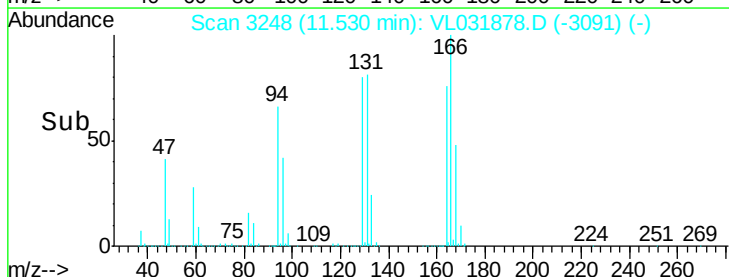
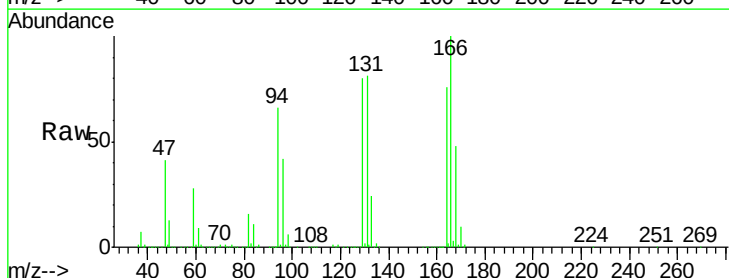
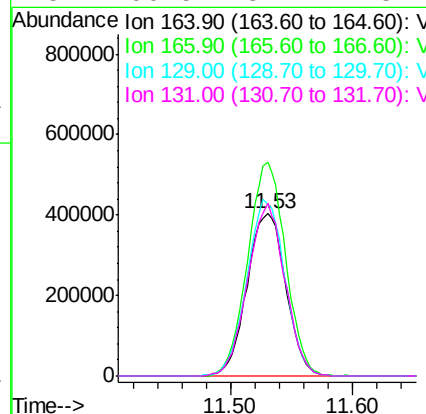
Ion Ratio Lower Upper

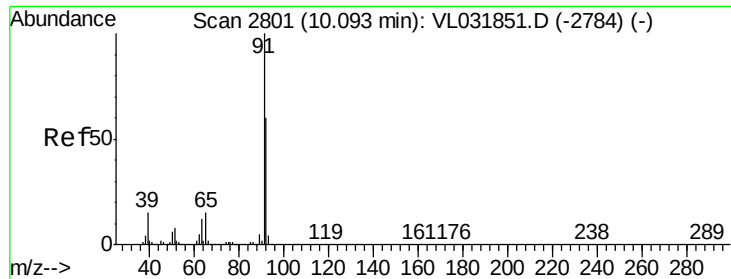
164 100

166 131.6 98.2 147.4

129 105.6 86.5 129.7

131 106.5 82.2 123.2





#53

Toluene

Concen: 9.915 ppbv

RT: 10.10 min Scan# 2803

Delta R.T. 0.01 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2859491

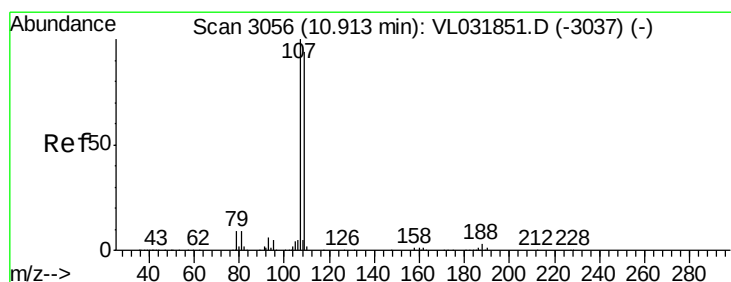
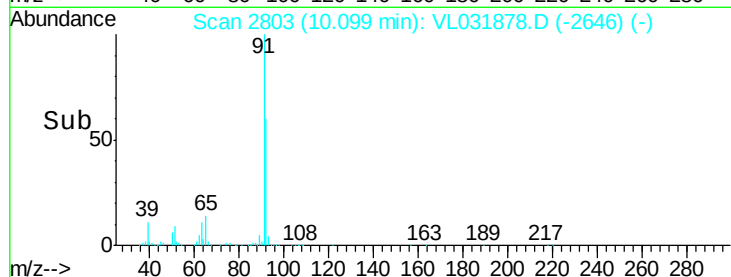
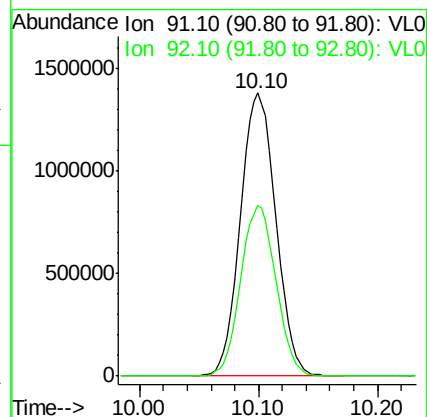
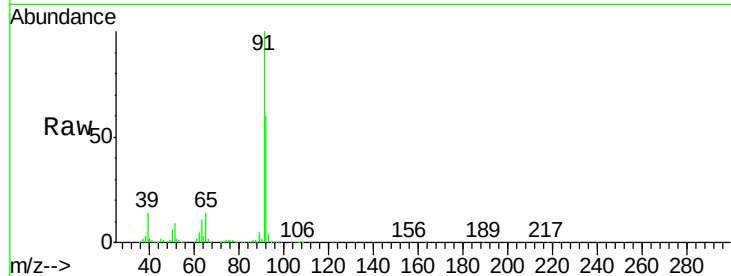
Ion Ratio Lower Upper

91 100

92 60.1 47.4 71.2

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#54

1,2-Dibromoethane

Concen: 9.272 ppbv

RT: 10.92 min Scan# 3057

Delta R.T. 0.01 min

Lab File: VL031878.D

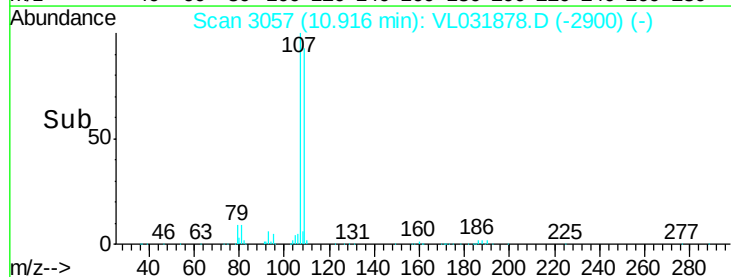
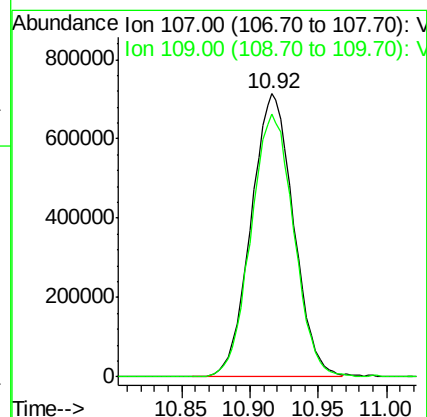
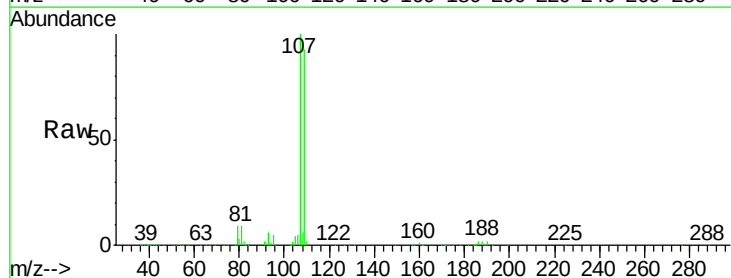
Acq: 12 Apr 2018 23:19

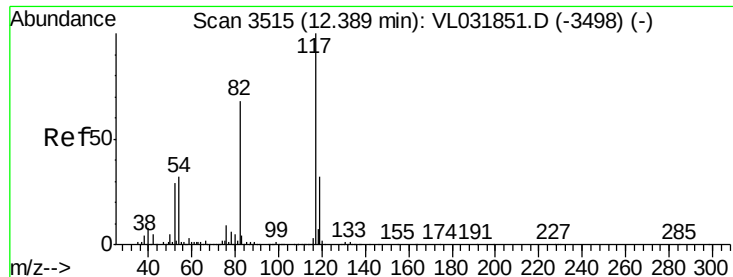
Tgt Ion: 107 Resp: 1537880

Ion Ratio Lower Upper

107 100

109 92.9 74.6 112.0





#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.40 min Scan# 3518

Delta R.T. 0.01 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 3058432

Ion Ratio Lower Upper

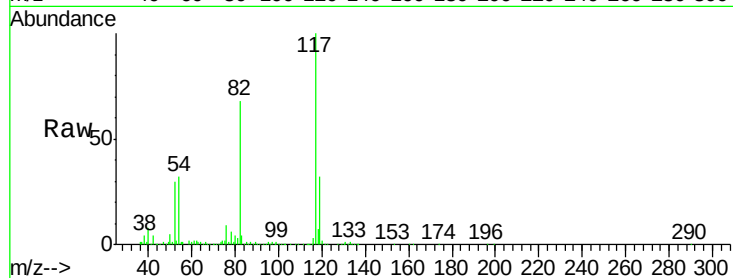
117 100

82 64.2 54.6 81.8

119 52.9 26.0 39.0#

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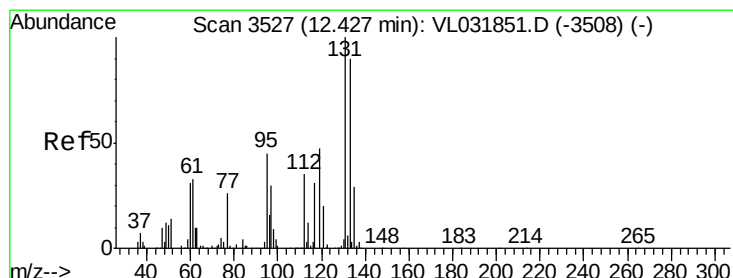
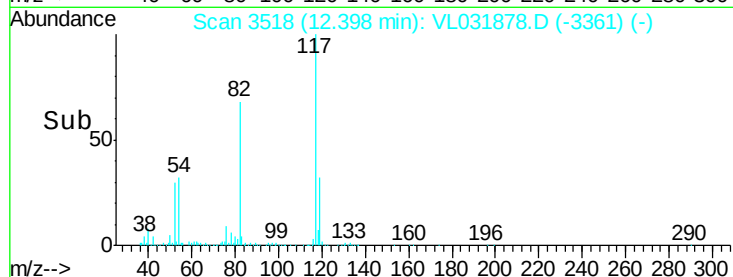
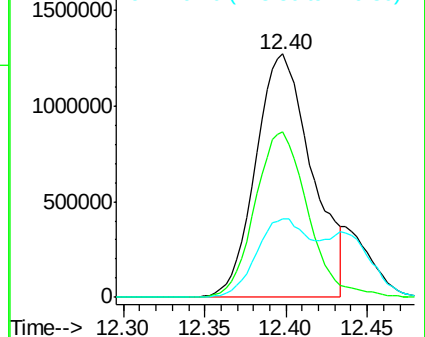
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 8.209 ppbv

RT: 12.44 min Scan# 3531

Delta R.T. 0.01 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

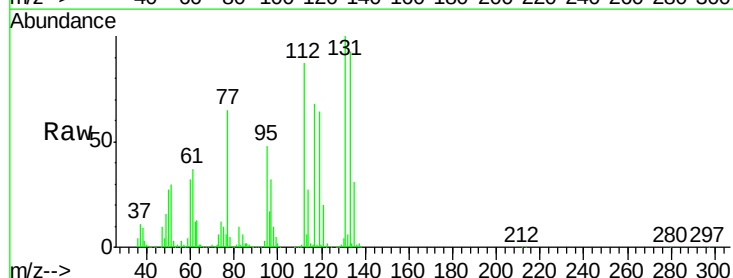
Tgt Ion:131 Resp: 1181425

Ion Ratio Lower Upper

131 100

133 94.6 76.1 114.1

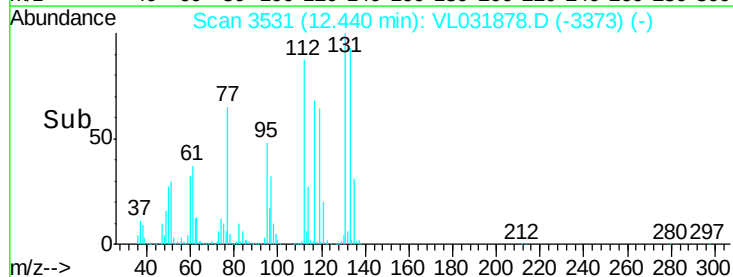
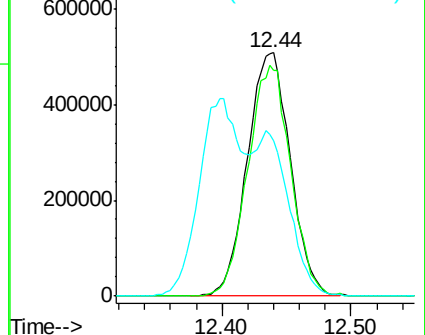
119 136.8 106.3 159.5

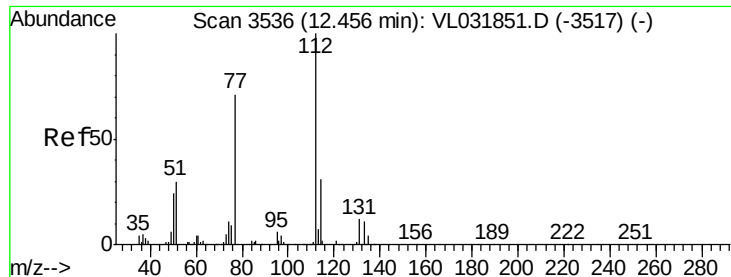


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 8.320 ppbv

RT: 12.46 min Scan# 3537

Delta R.T. 0.00 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:112 Resp: 2157422

Ion Ratio Lower Upper

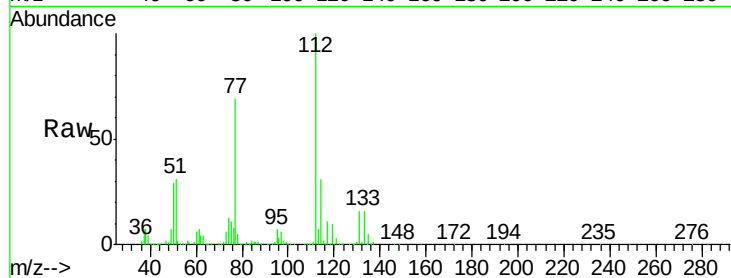
112 100

77 68.8 57.0 85.6

114 31.2 28.5 34.9

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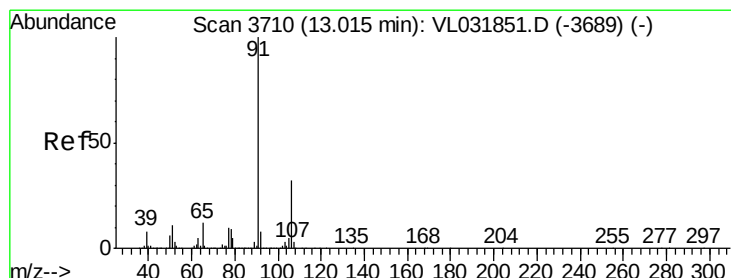
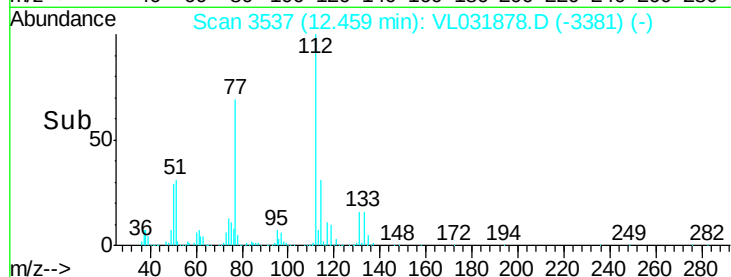
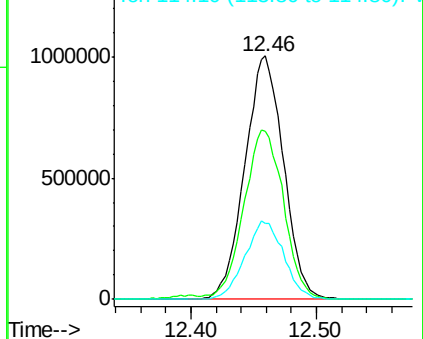
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 9.388 ppbv

RT: 13.02 min Scan# 3711

Delta R.T. 0.00 min

Lab File: VL031878.D

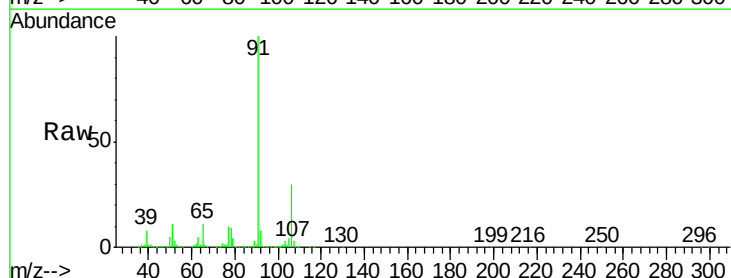
Acq: 12 Apr 2018 23:19

Tgt Ion: 91 Resp: 3987392

Ion Ratio Lower Upper

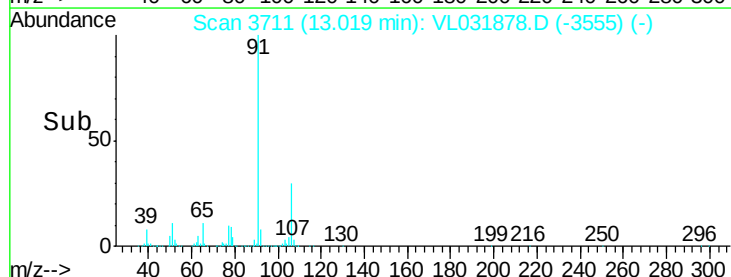
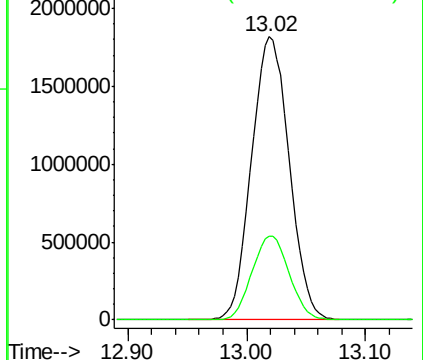
91 100

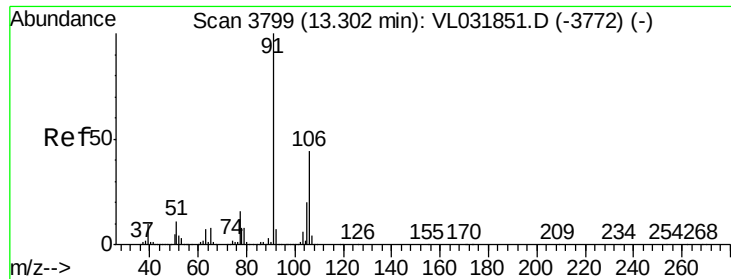
106 29.5 23.8 35.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





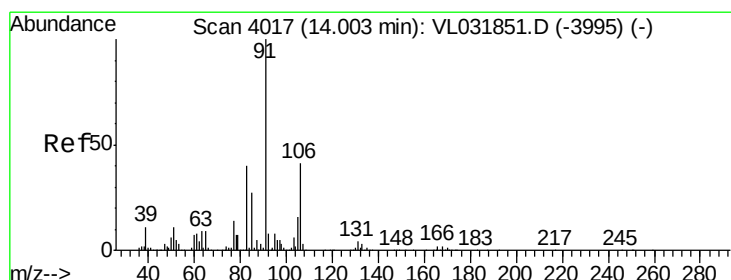
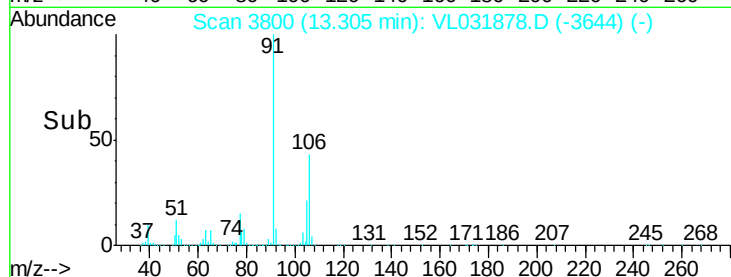
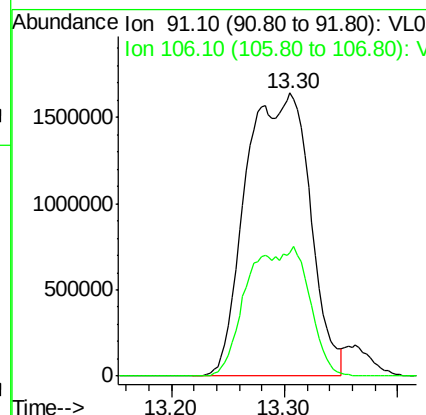
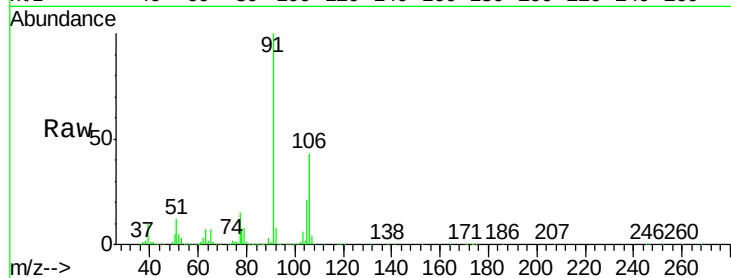
#59
m/p-Xylene
Concen: 17.512 ppbv m
RT: 13.30 min Scan# 3800
Delta R.T. 0.00 min
Lab File: VL031878.D
Acq: 12 Apr 2018 23:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 6458109
Ion Ratio Lower Upper
91 100
106 44.2 35.5 53.3

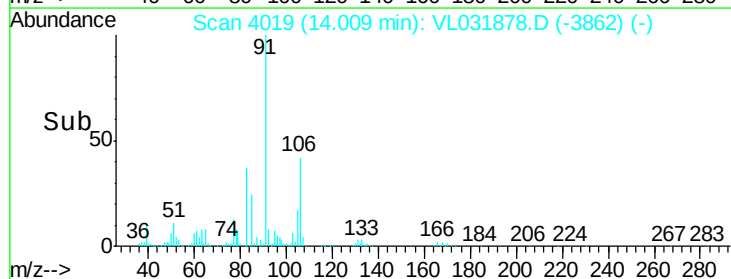
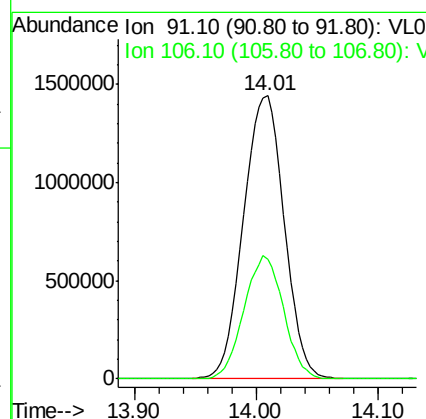
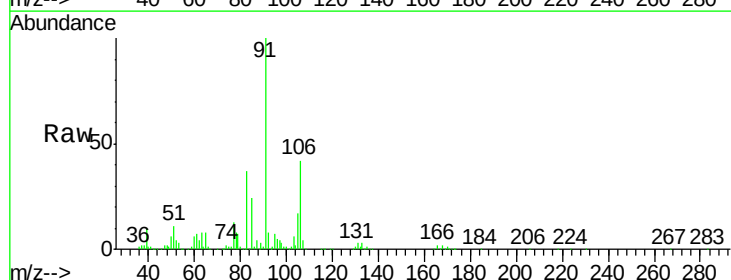
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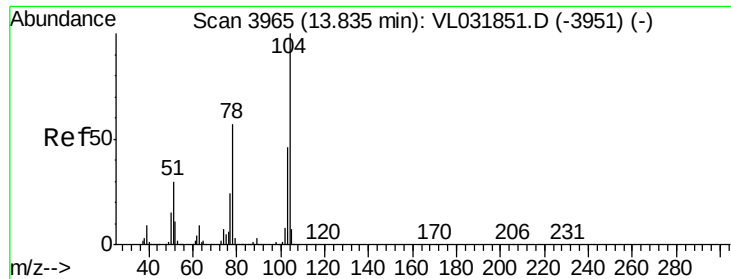
MMDadoda
4/15/2018 3:08:19 PM



#60
o-Xylene
Concen: 9.009 ppbv
RT: 14.01 min Scan# 4019
Delta R.T. 0.01 min
Lab File: VL031878.D
Acq: 12 Apr 2018 23:19

Tgt Ion: 91 Resp: 3321026
Ion Ratio Lower Upper
91 100
106 42.4 21.3 63.9





#61

Stvrene

Concen: 10.493 ppbv

RT: 13.84 min Scan# 3966

Delta R.T. -0.00 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

Instrument :

MSVOA_L

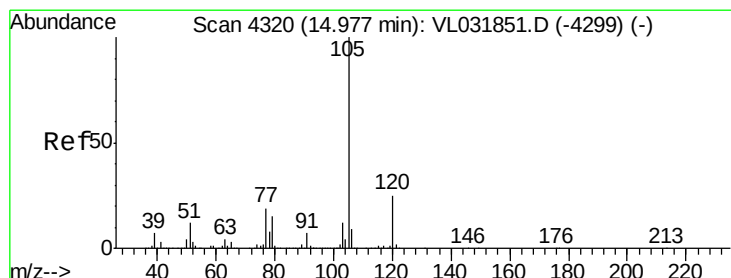
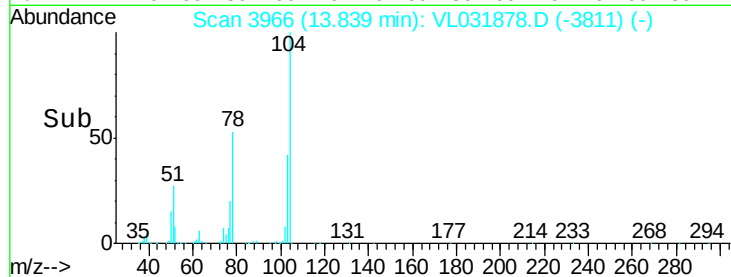
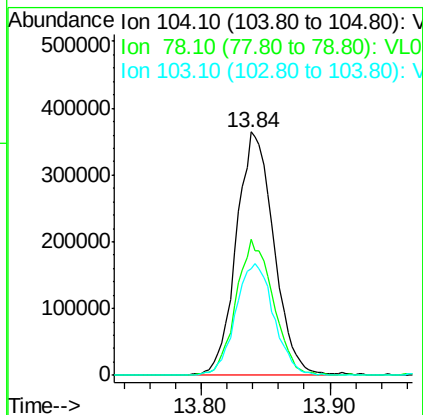
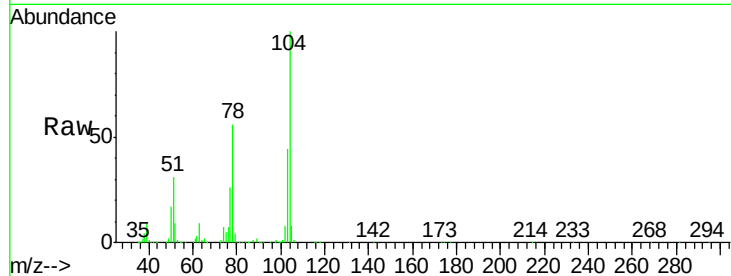
ClientSampleId :

VSTDCCC010EC

Tot Ion:	104	Resp:	736552
Ion Ratio	Lower	Upper	
104	100		
78	55.5	44.4	66.6
103	47.1	37.9	56.9

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#62

Isopropylbenzene

Concen: 8.783 ppbv

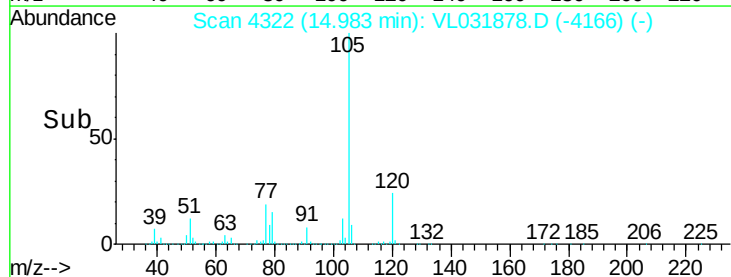
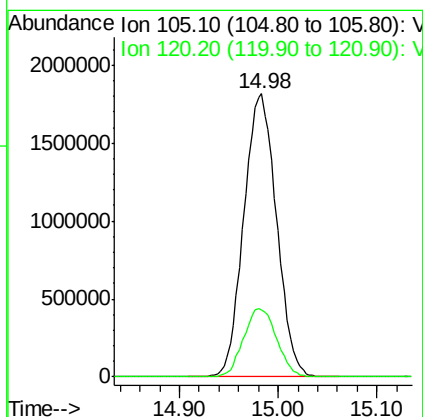
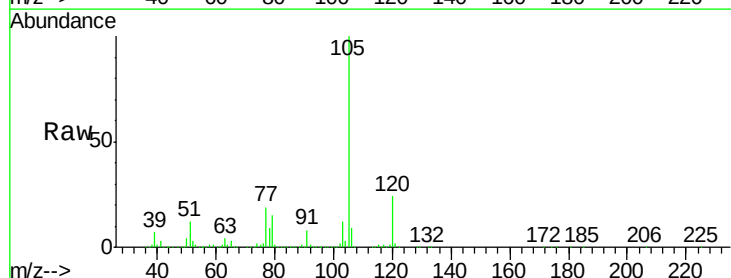
RT: 14.98 min Scan# 4322

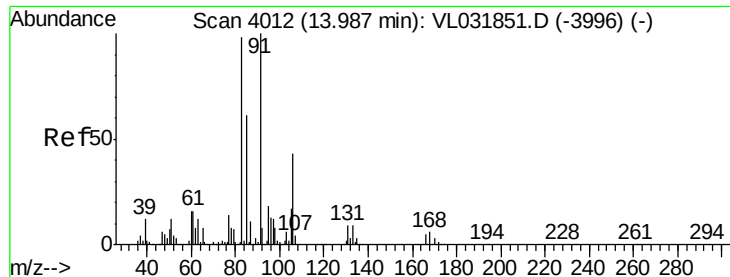
Delta R.T. 0.00 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

Tgt Ion:	105	Resp:	4158461
Ion Ratio	Lower	Upper	
105	100		
120	24.5	19.4	29.2





#63

1,1,2,2-Tetrachloroethane

Concen: 7.665 ppbv

RT: 13.99 min Scan# 4014

Delta R.T. 0.00 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 2172558

Ion Ratio Lower Upper

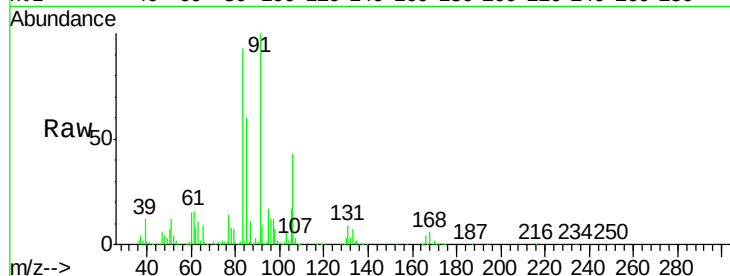
83 100

131 9.3 4.9 14.6

85 65.0 32.2 96.6

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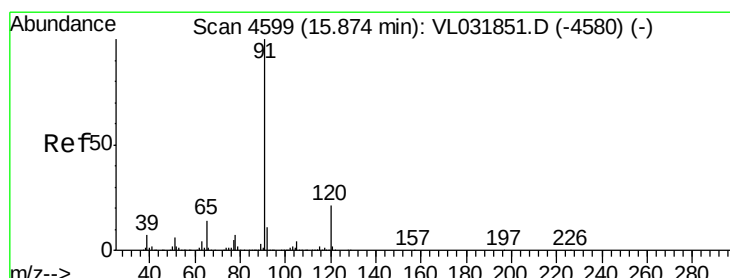
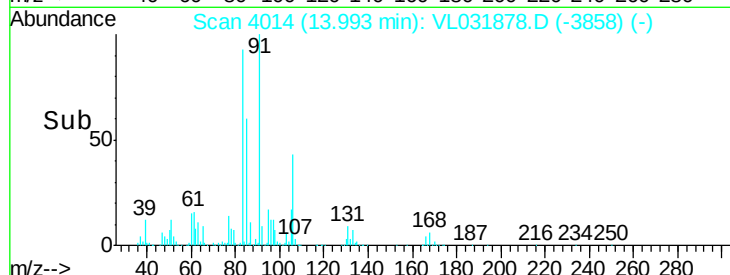
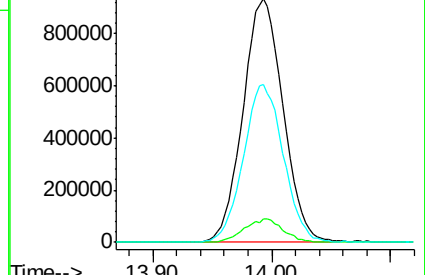
MMDadoda
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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 8.865 ppbv

RT: 15.88 min Scan# 4600

Delta R.T. -0.00 min

Lab File: VL031878.D

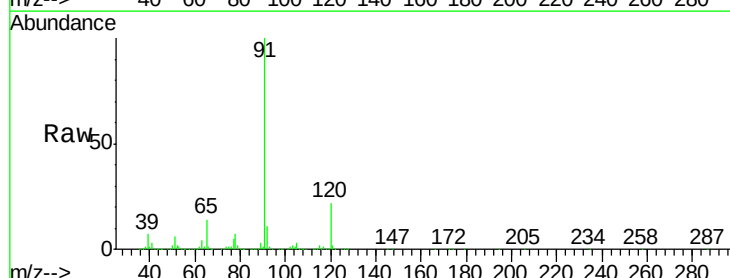
Acq: 12 Apr 2018 23:19

Tgt Ion: 120 Resp: 1020443

Ion Ratio Lower Upper

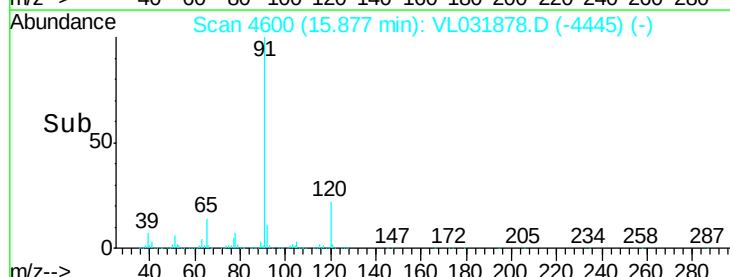
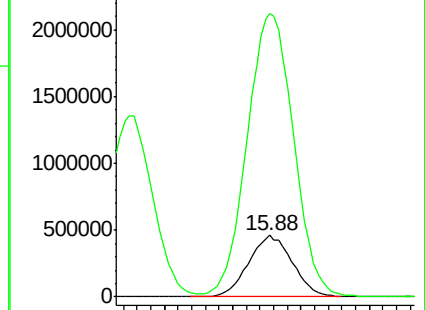
120 100

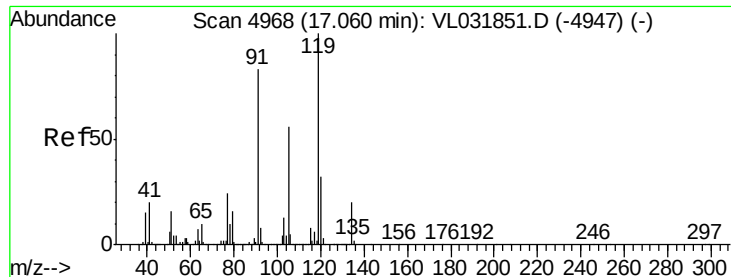
91 491.6 393.7 590.5



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





#65

tert-Butylbenzene

Concen: 8.820 ppbv

RT: 17.07 min Scan# 4970

Delta R.T. 0.01 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:119 Resp: 3591680

Ion Ratio Lower Upper

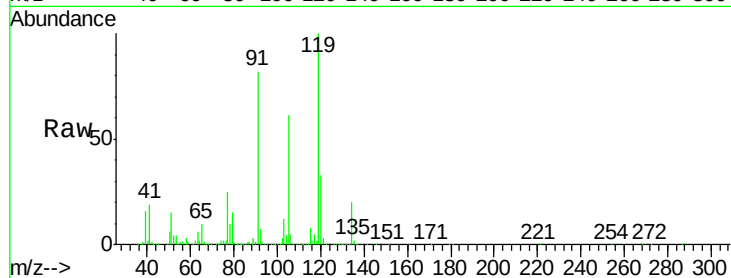
119 100

91 86.1 69.4 104.0

134 19.3 15.4 23.2

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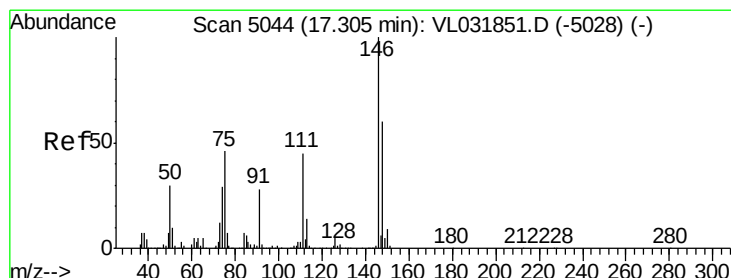
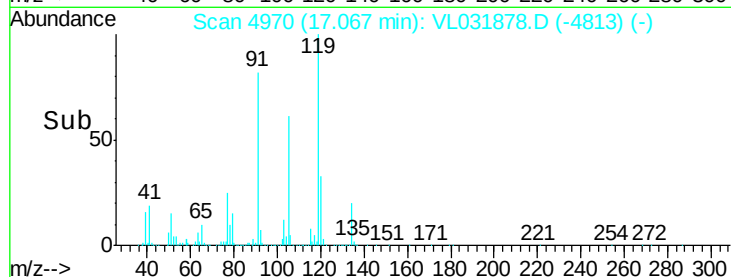
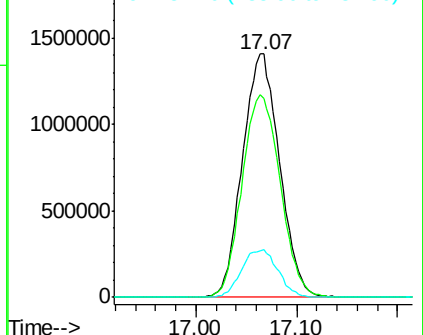
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 10.446 ppbv

RT: 17.31 min Scan# 5046

Delta R.T. 0.00 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

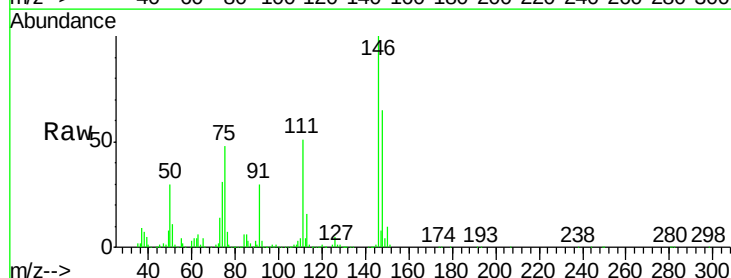
Tgt Ion: 91 Resp: 383300

Ion Ratio Lower Upper

91 100

126 16.3 12.6 19.0

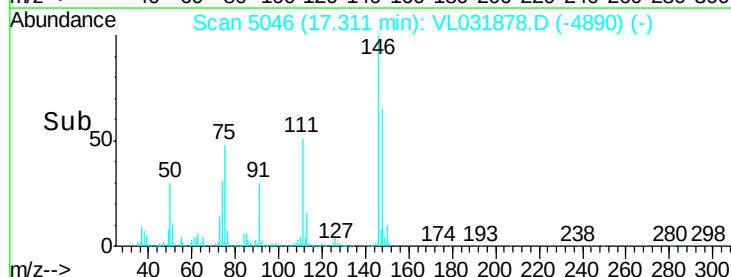
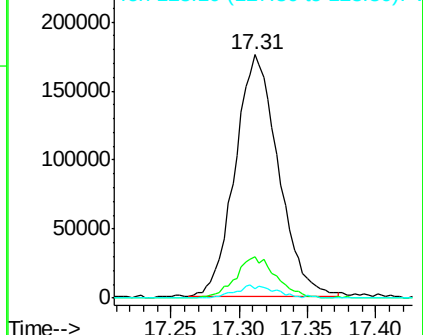
128 5.1 4.0 6.0

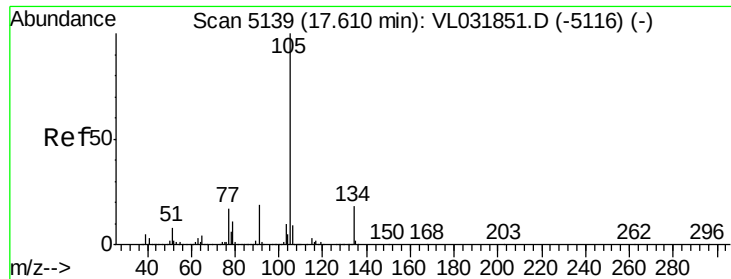


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 8.662 ppbv

RT: 17.61 min Scan# 5140

Delta R.T. 0.00 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 5081981

Ion Ratio Lower Upper

105 100

134 17.8

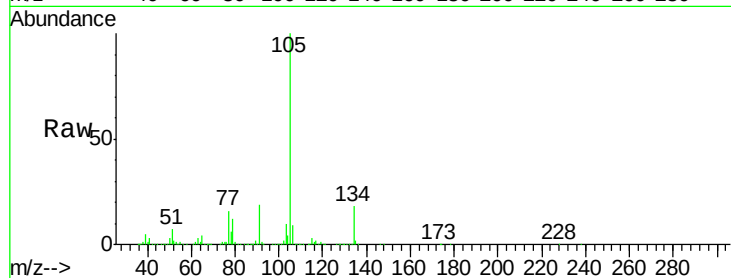
14.2 21.2

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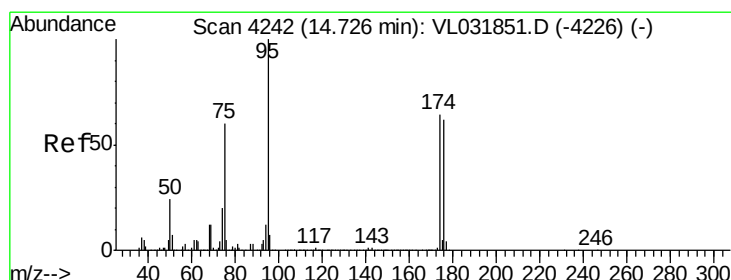
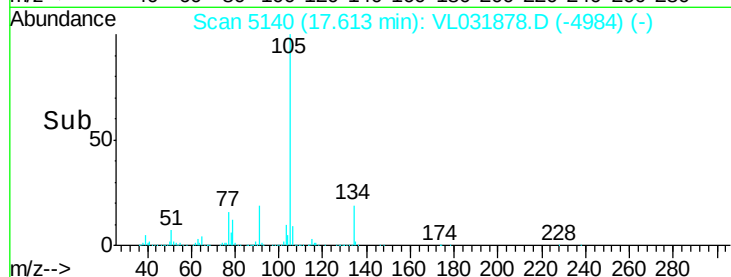
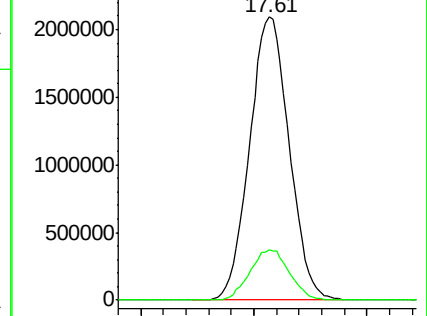
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.377 ppbv

RT: 14.73 min Scan# 4244

Delta R.T. 0.00 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

Tgt Ion: 95 Resp: 2306014

Ion Ratio Lower Upper

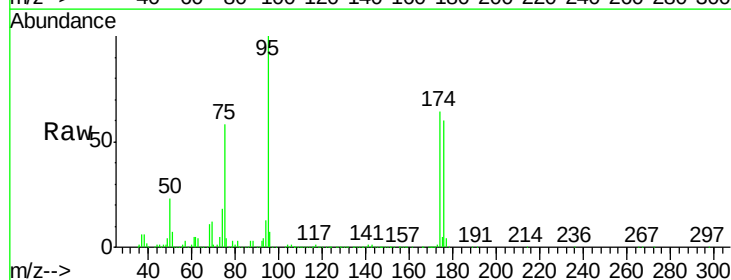
95 100

174 65.1

175 4.7

52.3 78.5

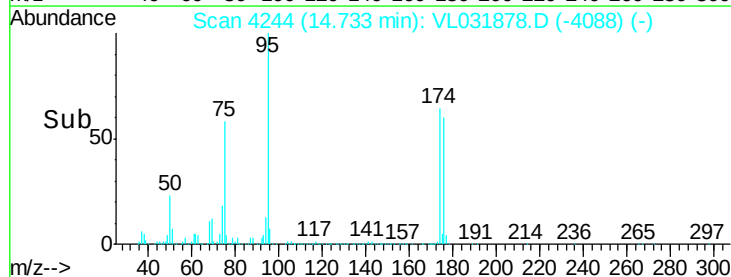
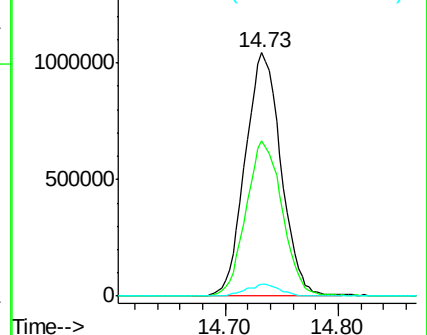
3.9 5.9

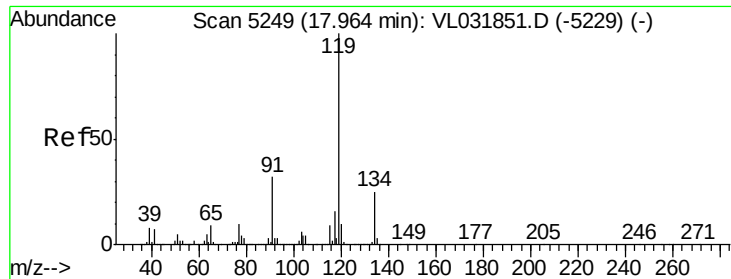


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





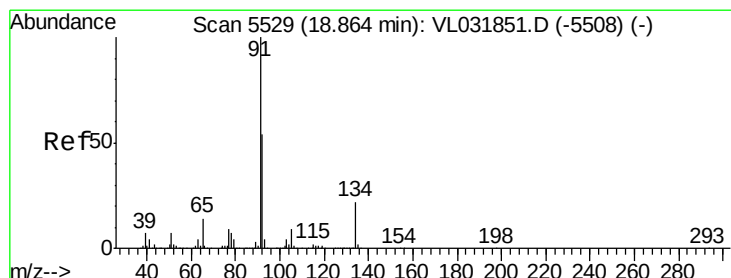
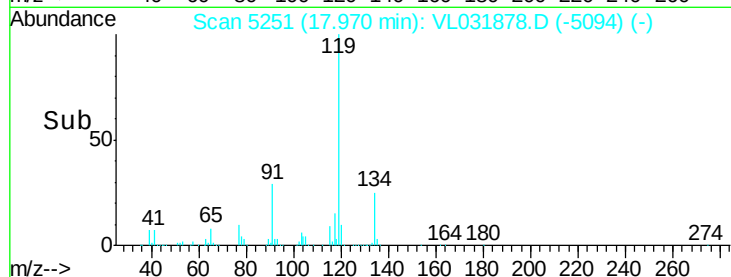
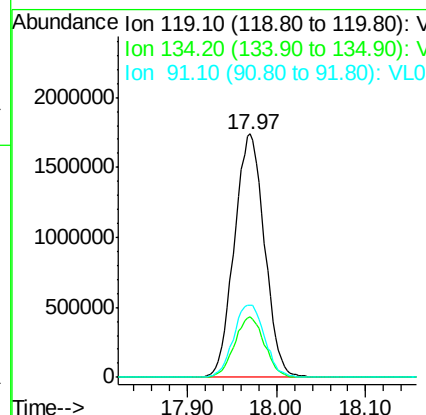
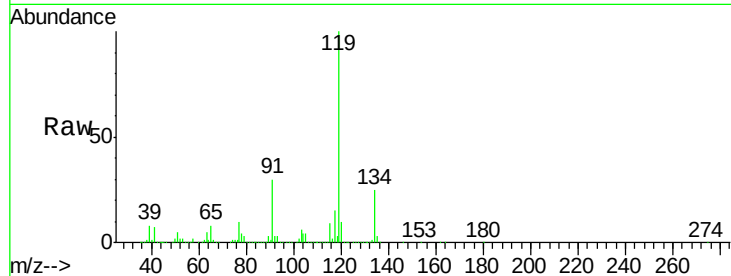
#69
 p-Isopropyltoluene
 Concen: 8.975 ppbv
 RT: 17.97 min Scan# 5251
 Delta R.T. 0.01 min
 Lab File: VL031878.D
 Acq: 12 Apr 2018 23:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.5	20.0	30.0
91	30.7	24.9	37.3

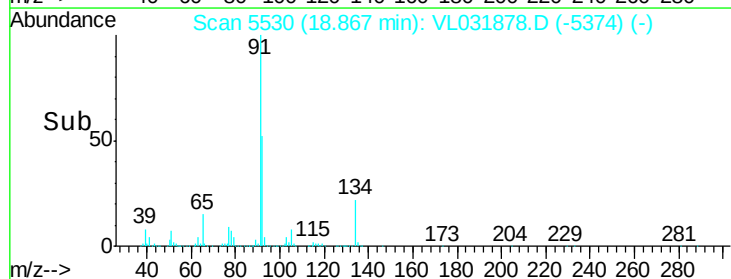
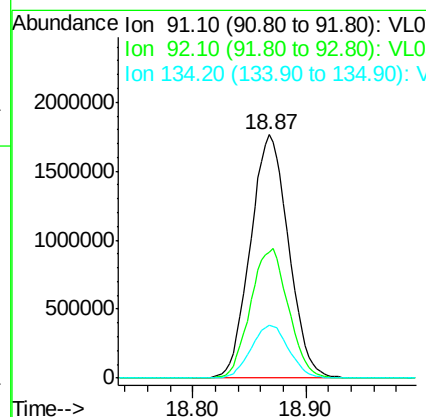
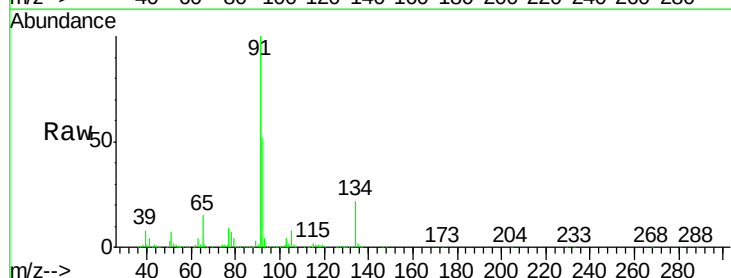
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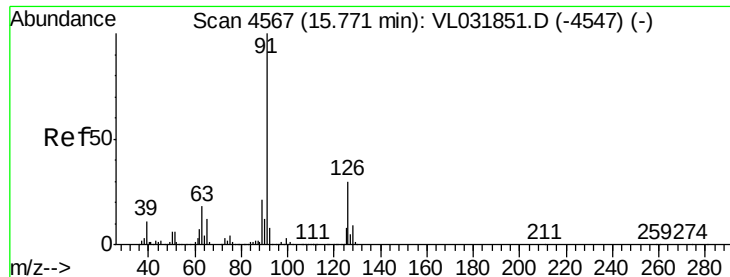
MMDadoda
 4/15/2018 3:08:19 PM



#70
 n-Butylbenzene
 Concen: 8.714 ppbv
 RT: 18.87 min Scan# 5530
 Delta R.T. 0.00 min
 Lab File: VL031878.D
 Acq: 12 Apr 2018 23:19

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.1	42.2	63.4
134	21.7	17.4	26.0





#71

2-Chlorotoluene

Concen: 9.041 ppbv

RT: 15.77 min Scan# 4568

Delta R.T. 0.01 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 3095257

Ion Ratio Lower Upper

91 100

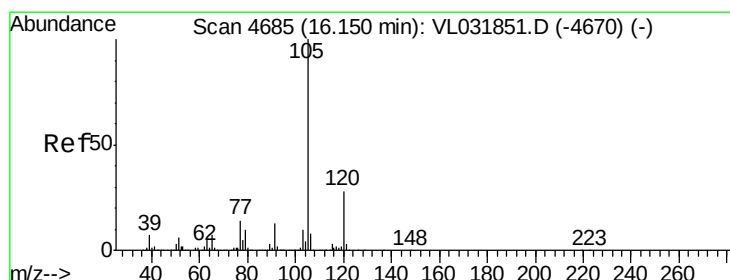
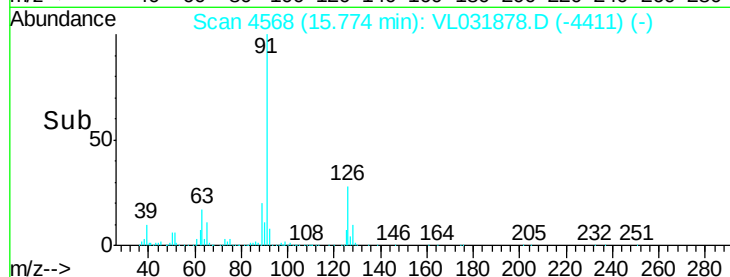
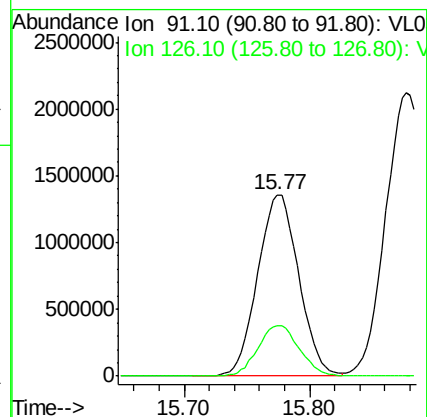
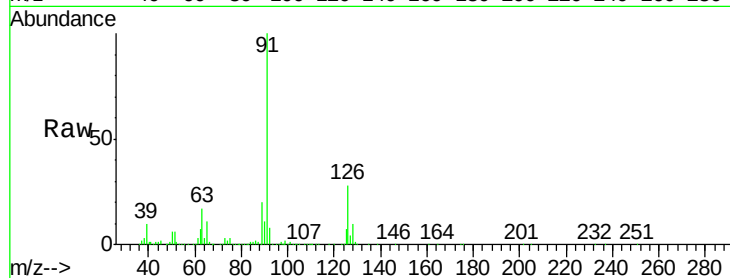
126 28.5 11.6 46.2

Manual Integrations

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#72

4-Ethyltoluene

Concen: 8.867 ppbv

RT: 16.15 min Scan# 4686

Delta R.T. 0.00 min

Lab File: VL031878.D

Acq: 12 Apr 2018 23:19

Tgt Ion:105 Resp: 3340268

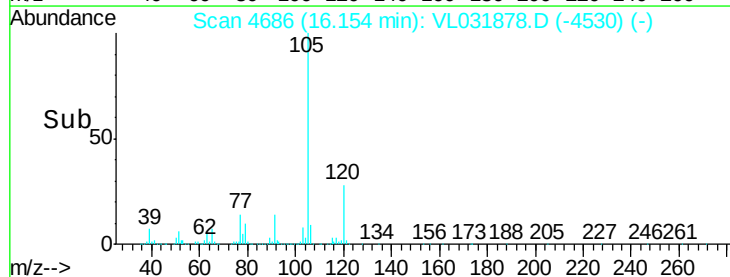
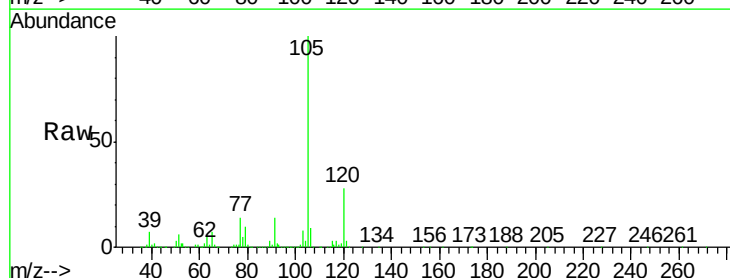
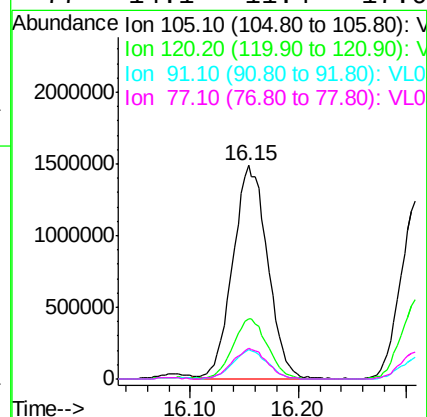
Ion Ratio Lower Upper

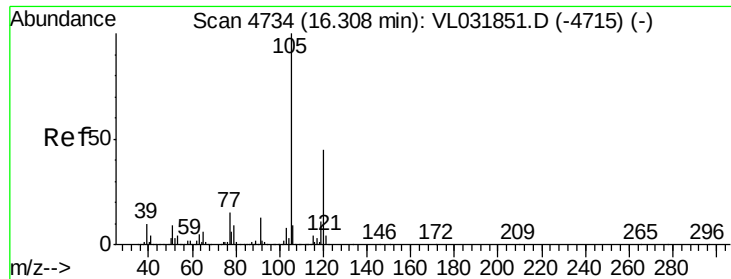
105 100

120 28.2 22.7 34.1

91 13.5 10.6 16.0

77 14.1 11.4 17.0





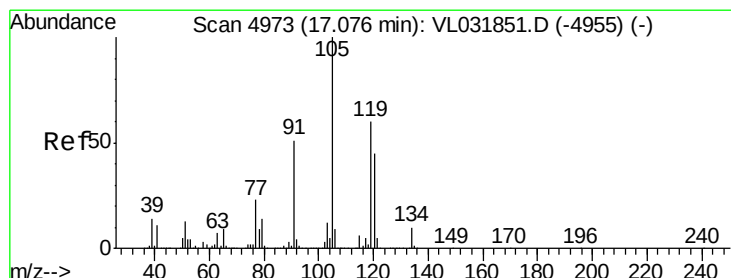
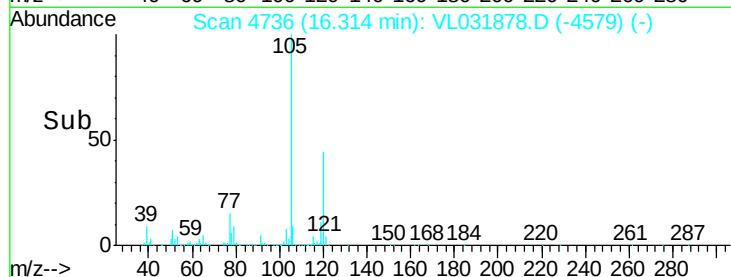
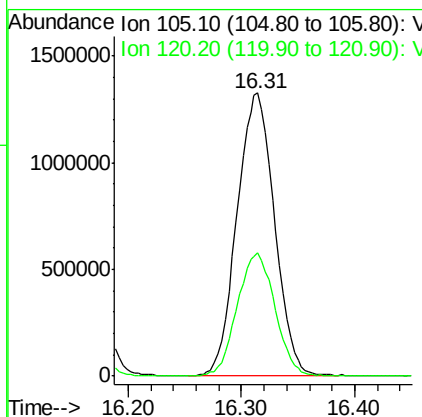
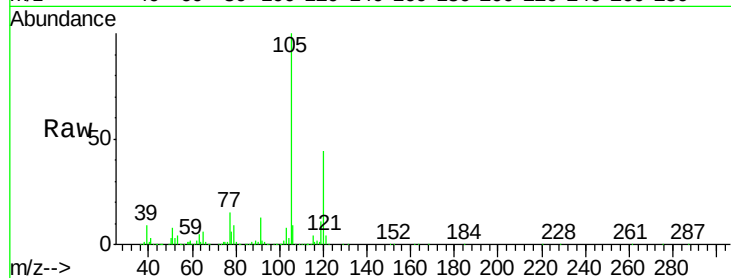
#73
 1,3,5-Trimethylbenzene
 Concen: 8.839 ppbv
 RT: 16.31 min Scan# 4736
 Delta R.T. 0.01 min
 Lab File: VL031878.D
 Acq: 12 Apr 2018 23:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:105 Resp: 3048078
 Ion Ratio Lower Upper
 105 100
 120 43.6 35.3 52.9

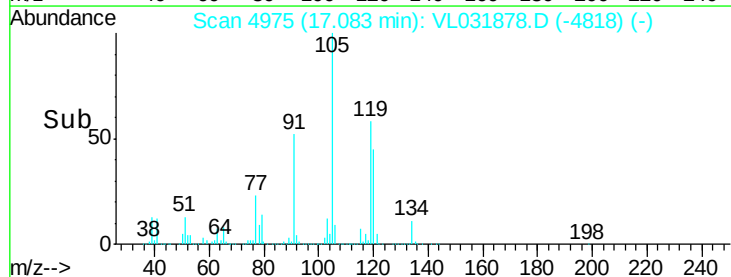
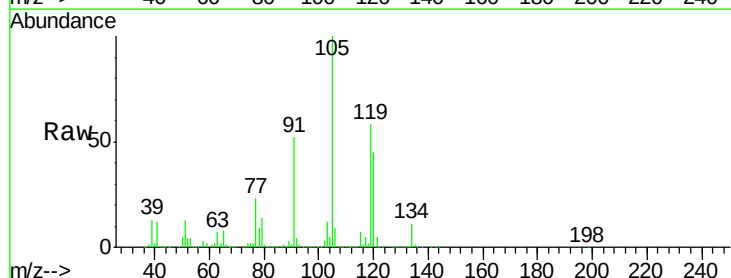
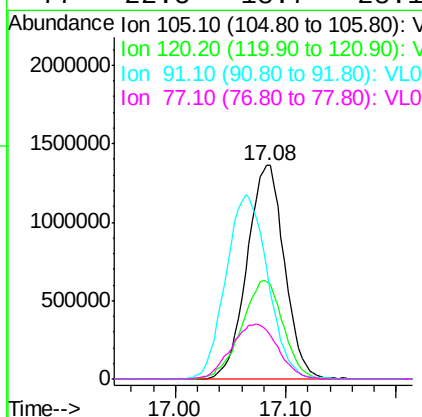
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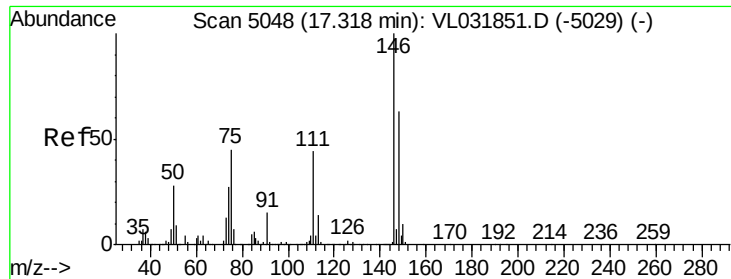
MMDadoda
 4/15/2018 3:08:19 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 8.301 ppbv
 RT: 17.08 min Scan# 4975
 Delta R.T. 0.01 min
 Lab File: VL031878.D
 Acq: 12 Apr 2018 23:19

Tgt Ion:105 Resp: 3195549
 Ion Ratio Lower Upper
 105 100
 120 45.5 37.0 55.4
 91 52.0 43.0 64.4
 77 22.5 18.7 28.1





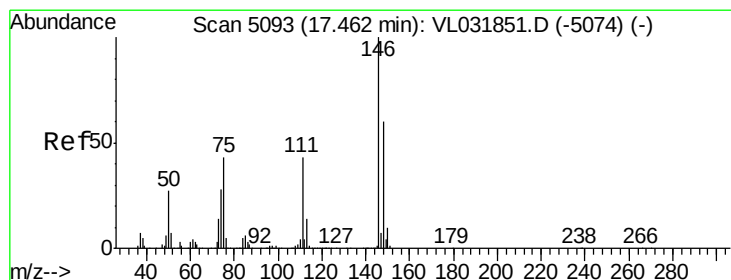
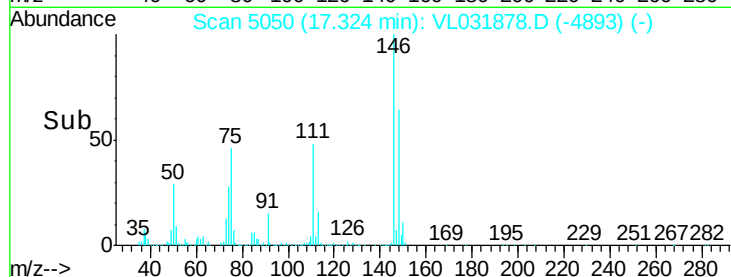
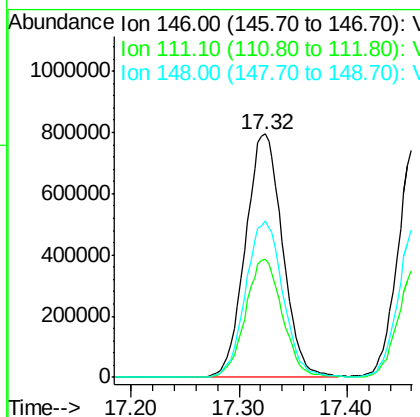
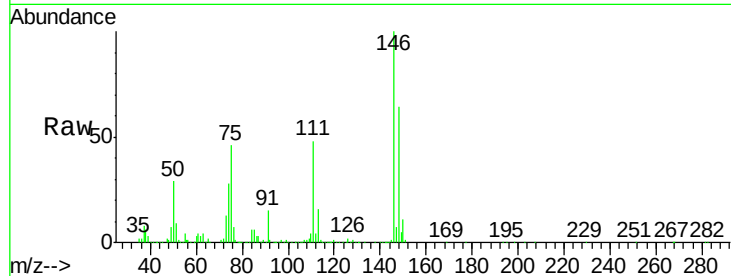
#75
 1,3-Dichlorobenzene
 Concen: 8.055 ppbv
 RT: 17.32 min Scan# 5050
 Delta R.T. 0.01 min
 Lab File: VL031878.D
 Acq: 12 Apr 2018 23:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.0	23.8	71.4
148	64.6	32.0	96.2

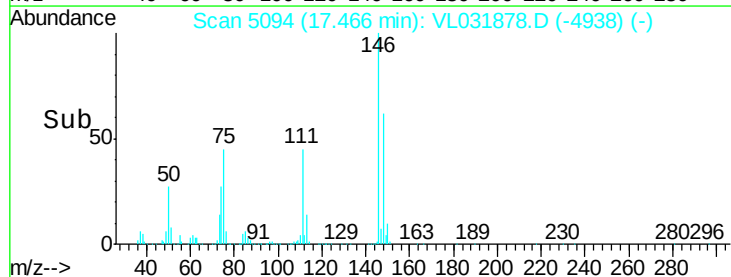
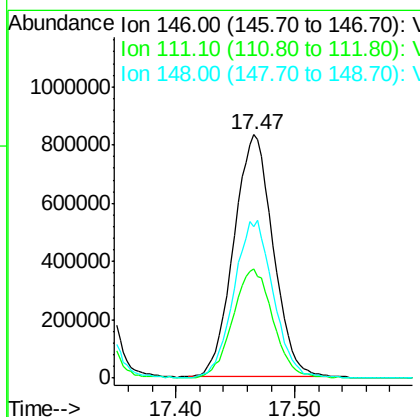
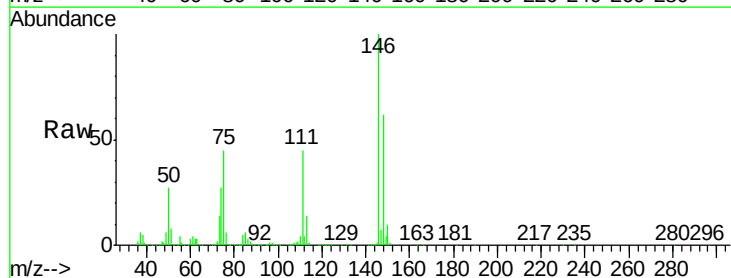
Manual Integrations
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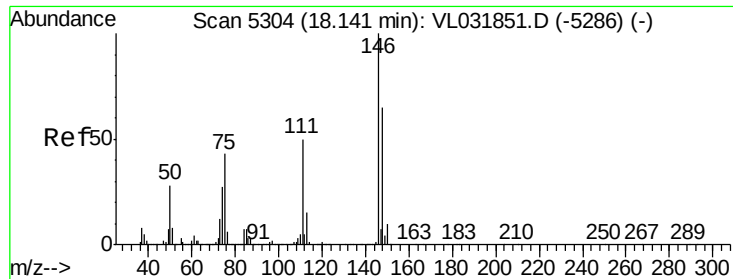
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#76
 1,4-Dichlorobenzene
 Concen: 8.331 ppbv
 RT: 17.47 min Scan# 5094
 Delta R.T. 0.00 min
 Lab File: VL031878.D
 Acq: 12 Apr 2018 23:19

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.6	22.9	68.7
148	65.3	32.0	96.0





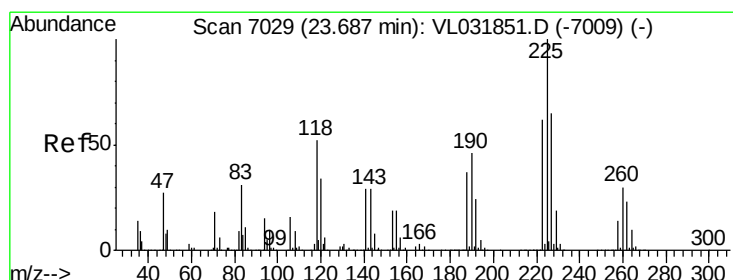
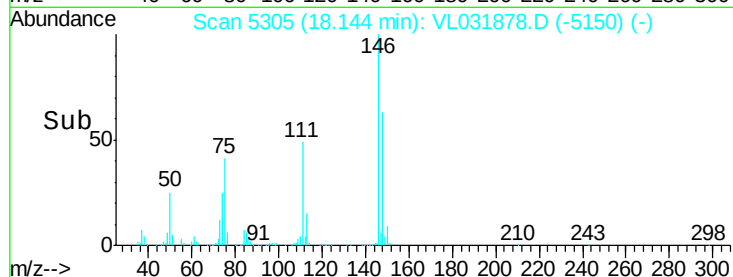
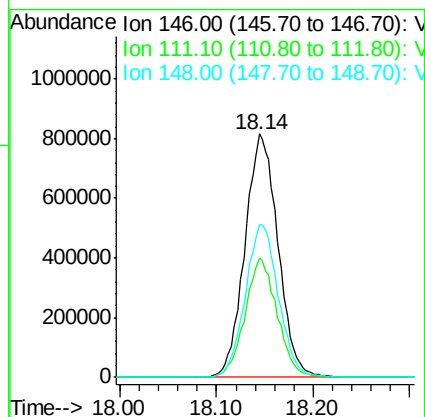
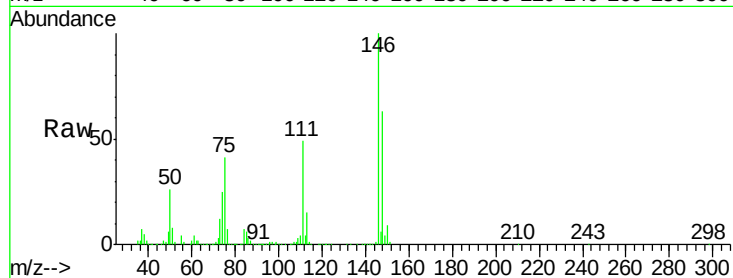
#77
 1,2-Dichlorobenzene
 Concen: 8.315 ppbv
 RT: 18.14 min Scan# 5305
 Delta R.T. -0.00 min
 Lab File: VL031878.D
 Acq: 12 Apr 2018 23:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.6	24.3	72.8
148	63.2	31.8	95.3

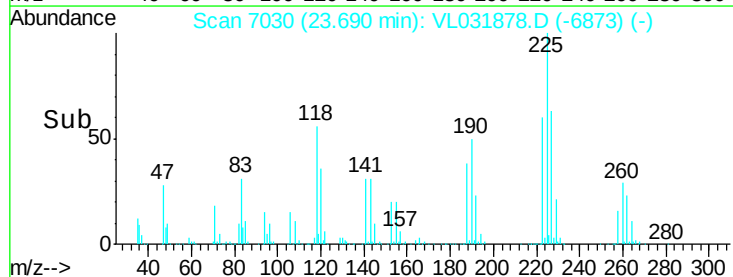
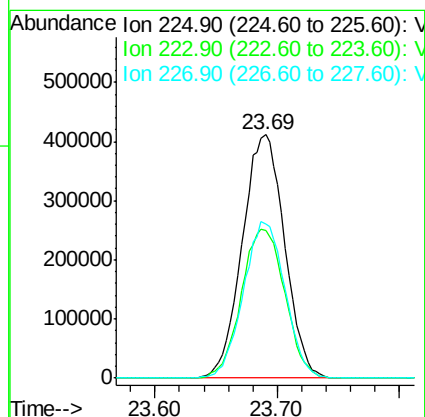
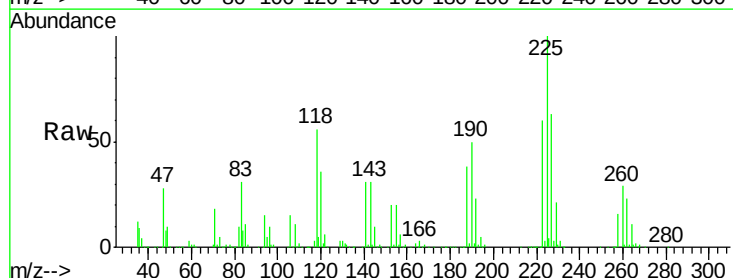
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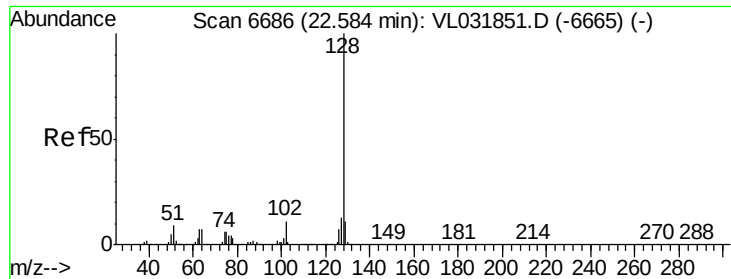
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#78
 Hexachloro-1,3-Butadiene
 Concen: 11.037 ppbv
 RT: 23.69 min Scan# 7030
 Delta R.T. 0.01 min
 Lab File: VL031878.D
 Acq: 12 Apr 2018 23:19

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.6	76.0
227	63.3	52.2	78.4





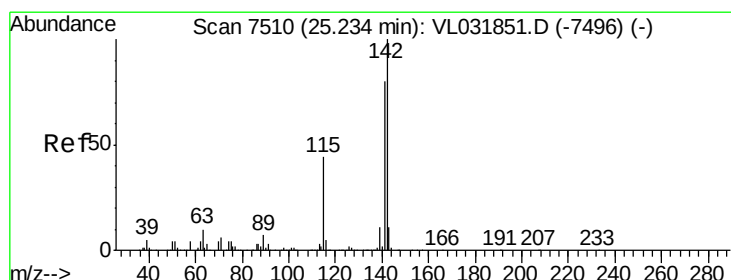
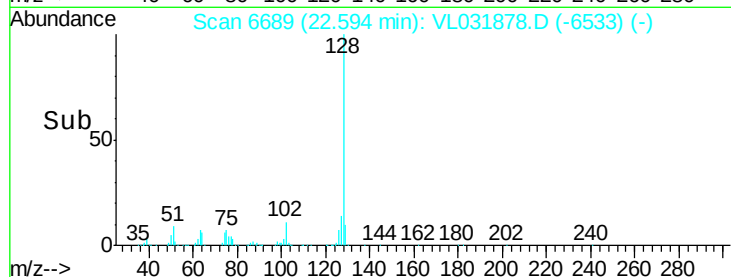
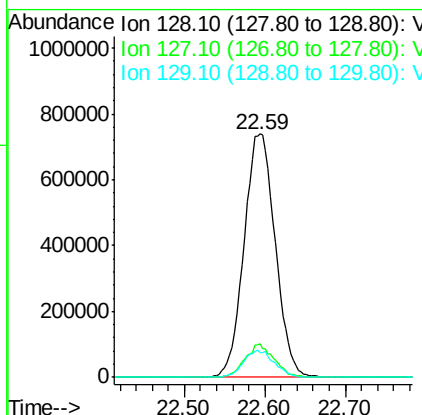
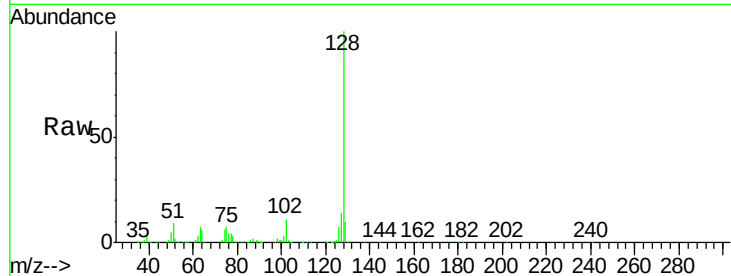
#79
Naphthalene
Concen: 9.263 ppbv m
RT: 22.59 min Scan# 6689
Delta R.T. 0.00 min
Lab File: VL031878.D
Acq: 12 Apr 2018 23:19

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.2	15.4
129	10.4	9.4	14.2

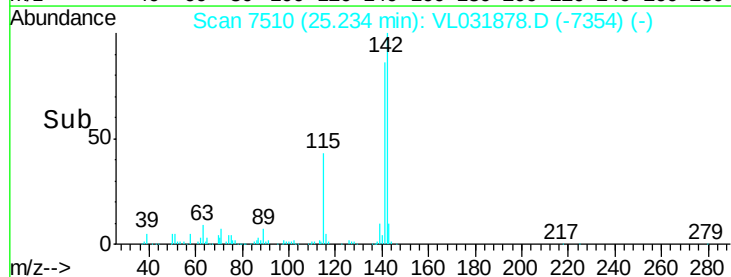
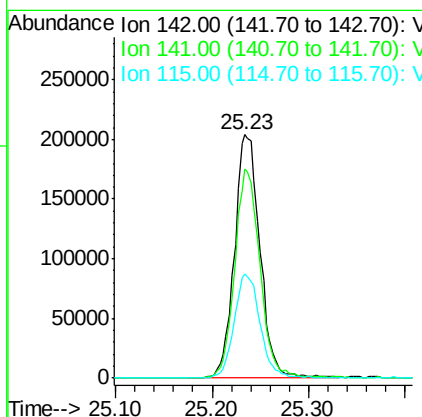
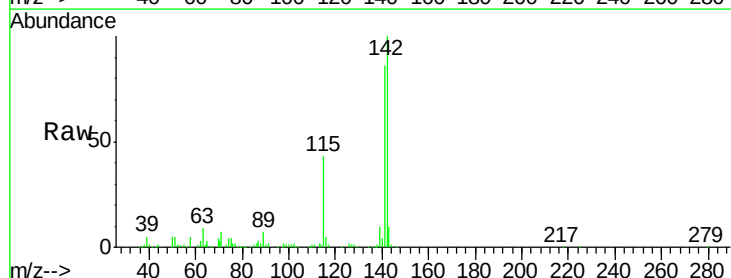
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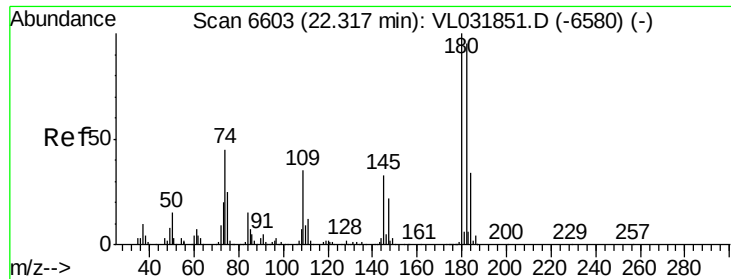
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#80
Naphthalene, 2-methyl-
Concen: 8.834 ppbv
RT: 25.23 min Scan# 7510
Delta R.T. 0.00 min
Lab File: VL031878.D
Acq: 12 Apr 2018 23:19

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.4	67.0	100.4
115	43.5	35.3	52.9





#81
 1,2,4-Trichlorobenzene
 Concen: 8.458 ppbv
 RT: 22.32 min Scan# 6603
 Delta R.T. 0.01 min
 Lab File: VL031878.D
 Acq: 12 Apr 2018 23:19

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.8	76.3	114.5
184	30.0	24.2	36.2

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