

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062918\
 Data File : VL032146.D
 Acq On : 29 Jun 2018 18:45
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

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 7/2/2018 4:24:49 PM

Quant Time: Jun 29 20:44:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu Jun 1
 QLast Update : Fri Jun 29 20:36:18 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.85	49	1300986	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	3357676	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3358814	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.68	95	2870677	11.50	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	115.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	304208	2.23	ppbv	98
3) Chlorodifluoromethane	3.07	51	335245	1.98	ppbv	98
4) Chloromethane	3.23	50	173454	1.92	ppbv	99
5) Vinyl Chloride	3.35	62	176547	1.90	ppbv	96
6) Bromomethane	3.58	94	97090	1.80	ppbv	97
7) Chloroethane	3.66	64	66213	1.92	ppbv	91
8) Dichlorotetrafluoroethane	3.28	85	389230	2.07	ppbv	97
9) Propene	3.09	41	155486	1.88	ppbv	100
10) Heptane	8.34	43	439805	1.88	ppbv	100
11) Trichlorofluoromethane	4.08	101	396619	2.21	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.63	101	265929	2.19	ppbv	98
13) Ethanol	3.72	45	47168m	1.90	ppbv	
14) Bromoethene	3.86	108	119596	2.00	ppbv	96
15) Acetone	3.97	43	322331	1.86	ppbv	99
16) 1,3-Butadiene	3.42	39	148388	1.83	ppbv	99
17) tert-Butyl alcohol	4.44	59	204454	1.97	ppbv	99
18) 1,1-Dichloroethene	4.42	96	123479	2.07	ppbv	97
19) Isopropyl Alcohol	4.10	45	266050	1.96	ppbv #	40
20) Methylene Chloride	4.49	84	112953	1.93	ppbv	98
21) Allyl Chloride	4.55	41	217939	2.03	ppbv	97
22) trans-1,2-Dichloroethene	5.04	96	131997	2.17	ppbv	92
23) Vinyl Acetate	5.23	43	560410	2.13	ppbv	99
24) 1,1-Dichloroethane	5.17	63	379859	1.92	ppbv	99
25) Ethyl Acetate	5.86	43	662878	1.75	ppbv	100
26) Hexane	5.86	57	312969	1.86	ppbv	99
27) Carbon Disulfide	4.70	76	307066	1.83	ppbv	99
28) Methyl tert-Butyl Ether	5.20	73	547813	2.58	ppbv	99
29) Chloroform	5.93	83	438932	1.98	ppbv	98
30) Cyclohexane	7.34	84	290197	2.10	ppbv	91
31) cis-1,2-Dichloroethene	5.72	61	306045	2.05	ppbv	99
32) 1,1,1-Trichloroethane	6.71	97	440400	1.90	ppbv	99
34) 2-Butanone	5.41	43	447406	1.64	ppbv	99
35) Carbon Tetrachloride	7.22	117	450612	1.93	ppbv	96
36) Benzene	7.10	78	649894	1.79	ppbv	99
37) 1,2-Dichloroethane	6.50	62	333767	1.78	ppbv	99
38) Trichloroethene	8.06	130	253657	1.81	ppbv	95
39) 1,2-Dichloropropane	7.83	63	271644	2.03	ppbv	99
40) 1,4-Dioxane	8.07	88	106133m	1.70	ppbv	
41) Tetrahydrofuran	6.24	42	270857	1.66	ppbv	99
42) Bromodichloromethane	8.01	83	529000	2.09	ppbv	95
43) Methyl Methacrylate	8.23	69	279563	1.94	ppbv	99

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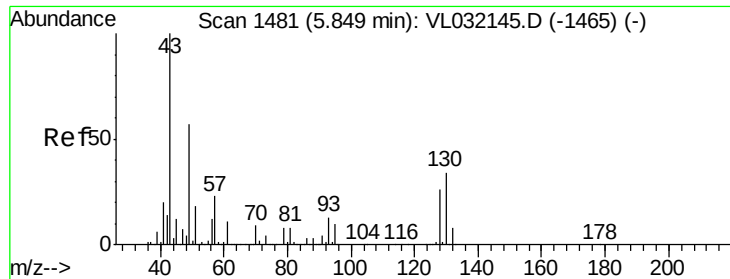
Manual Integrations
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Quant Time: Jun 29 20:44:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.08	57	1189959	1.99	ppbv	99
45) t-1,3-Dichloropropene	9.52	75	345584	1.94	ppbv	94
46) cis-1,3-Dichloropropene	8.93	75	419457	1.84	ppbv	96
47) 1,1,2-Trichloroethane	9.71	97	278007	1.84	ppbv	96
48) Dibromochloromethane	10.55	129	453813	2.00	ppbv	100
49) Bromoform	13.30	173	377626	2.18	ppbv	100
50) 4-Methyl-2-Pentanone	8.97	43	734895	1.74	ppbv	98
51) 2-Hexanone	10.38	43	633301	1.51	ppbv	100
52) Tetrachloroethene	11.48	164	234393	1.74	ppbv	96
53) Toluene	10.04	91	827636	1.88	ppbv	99
54) 1,2-Dibromoethane	10.86	107	425316	1.90	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.39	131	322125	2.16	ppbv #	1
57) Chlorobenzene	12.40	112	617651	1.94	ppbv	97
58) Ethyl Benzene	12.97	91	1123219	1.92	ppbv	93
59) m/p-Xylene	13.25	91	1816162m	3.92	ppbv	
60) o-Xylene	13.95	91	901153	1.96	ppbv	98
61) Styrene	13.78	104	727886	5.30	ppbv	96
62) Isopropylbenzene	14.93	105	1614281	2.64	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.94	83	633216	1.78	ppbv	99
64) n-propylbenzene	15.83	120	437659	2.74	ppbv	87
65) tert-Butylbenzene	17.01	119	1507342	2.80	ppbv	96
66) Benzyl Chloride	17.26	91	984213	14.31	ppbv	98
67) sec-Butylbenzene	17.56	105	2193607	2.79	ppbv	98
69) p-Isopropyltoluene	17.92	119	1777943	2.76	ppbv	97
70) n-Butylbenzene	18.82	91	1844423	2.72	ppbv	99
71) 2-Chlorotoluene	15.72	91	1290938	2.75	ppbv	97
72) 4-Ethyltoluene	16.10	105	1411347	2.72	ppbv	98
73) 1,3,5-Trimethylbenzene	16.26	105	1319504	2.84	ppbv	97
74) 1,2,4-Trimethylbenzene	17.03	105	1349915	2.73	ppbv #	89
75) 1,3-Dichlorobenzene	17.27	146	783633	2.60	ppbv	98
76) 1,4-Dichlorobenzene	17.41	146	781609	2.55	ppbv	98
77) 1,2-Dichlorobenzene	18.09	146	773648	2.46	ppbv	98
78) Hexachloro-1,3-Butadiene	23.64	225	250564	2.93	ppbv	99
79) Naphthalene	22.53	128	1200643	2.33	ppbv	98
80) Naphthalene, 2-methyl-	25.19	142	354475	1.15	ppbv	97
81) 1,2,4-Trichlorobenzene	22.26	180	535319	2.65	ppbv	99

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.85 min Scan# 1480

Delta R.T. -0.02 min

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ClientSampleId :

VSTDIC002

Tot Ion: 49 Resp: 1300986

Ion Ratio Lower Upper

49 100

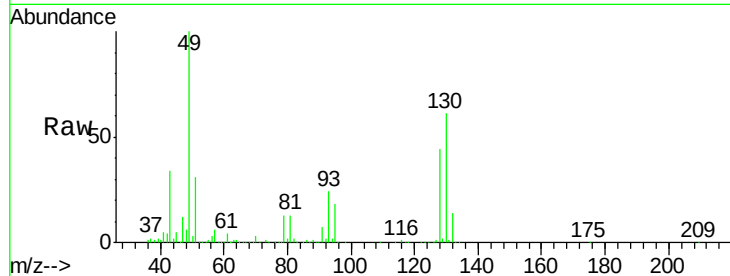
128 47.1 23.4 70.0

130 60.6 30.3 90.9

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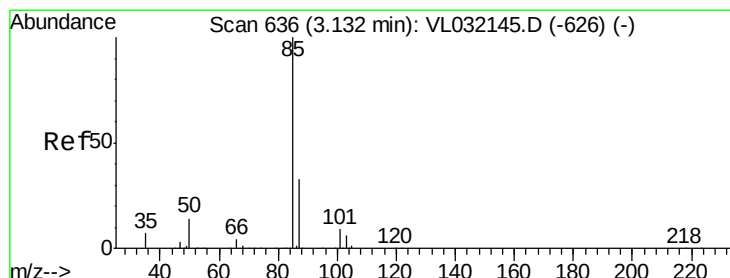
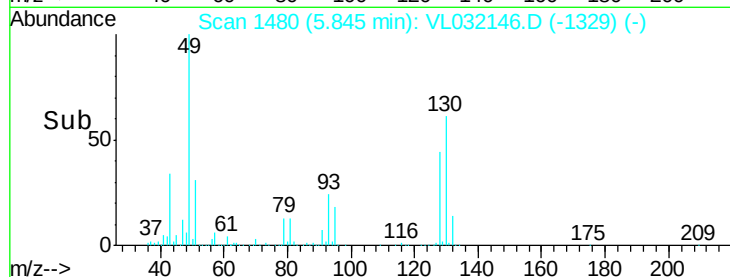
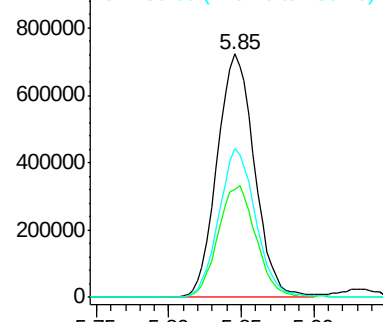
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 2.23 ppbv

RT: 3.13 min Scan# 637

Delta R.T. -0.01 min

Lab File: VL032146.D

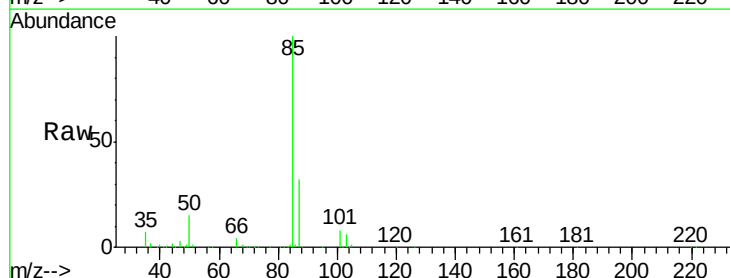
Acq: 29 Jun 2018 18:45

Tgt Ion: 85 Resp: 304208

Ion Ratio Lower Upper

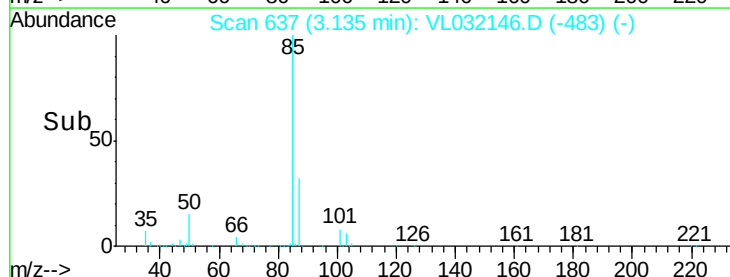
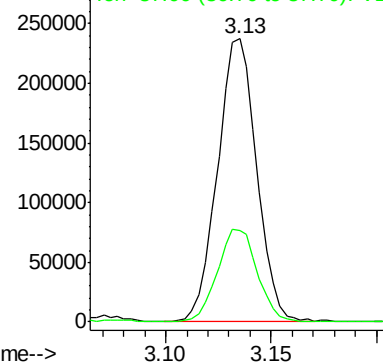
85 100

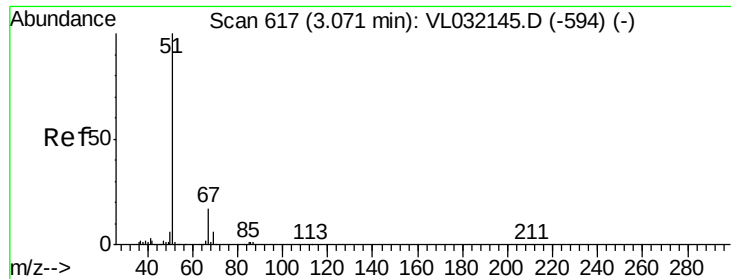
87 32.1 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.98 ppbv

RT: 3.07 min Scan# 617

Delta R.T. -0.01 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

Tot Ion: 51 Resp: 335245

Ion Ratio Lower Upper

51 100

67 17.3 13.2 19.8

Instrument :

MSVOA_L

ClientSampleId :

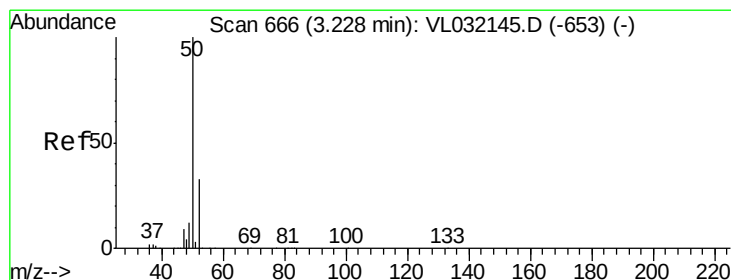
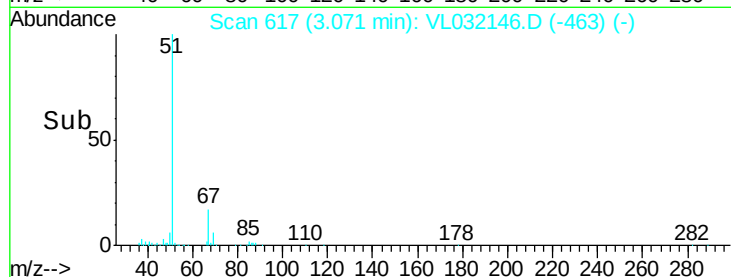
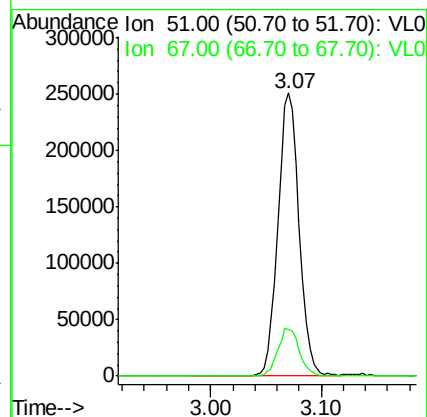
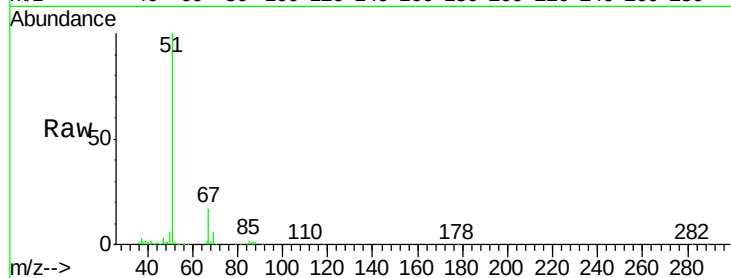
VSTDIC002

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#4

Chloromethane

Concen: 1.92 ppbv

RT: 3.23 min Scan# 666

Delta R.T. -0.01 min

Lab File: VL032146.D

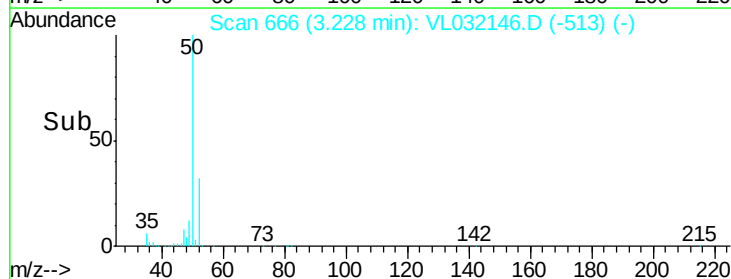
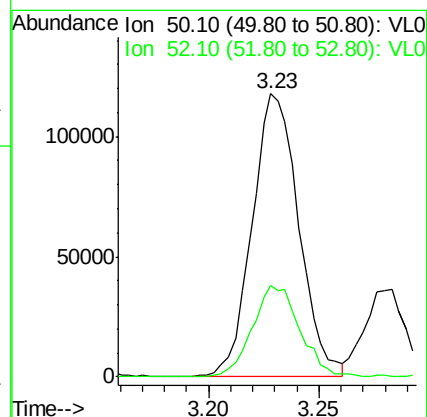
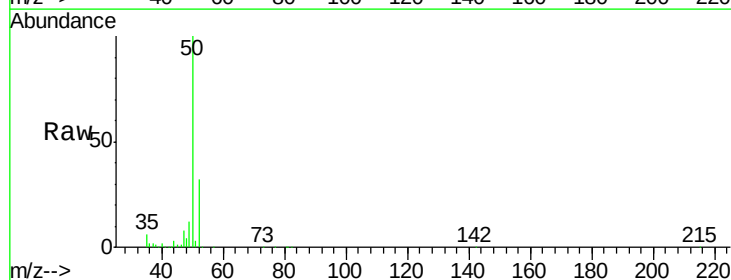
Acq: 29 Jun 2018 18:45

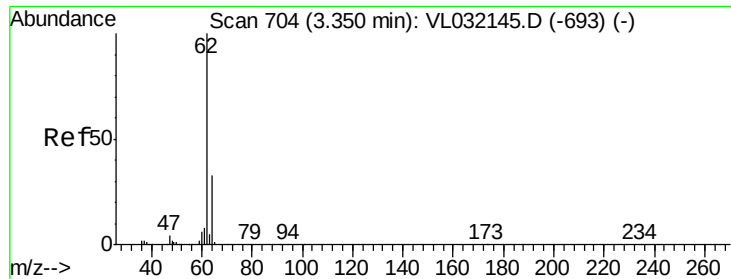
Tgt Ion: 50 Resp: 173454

Ion Ratio Lower Upper

50 100

52 32.1 26.0 39.0





#5

Vinyl Chloride

Concen: 1.90 ppbv

RT: 3.35 min Scan# 705

Delta R.T. -0.00 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 176547

Ion Ratio Lower Upper

62 100

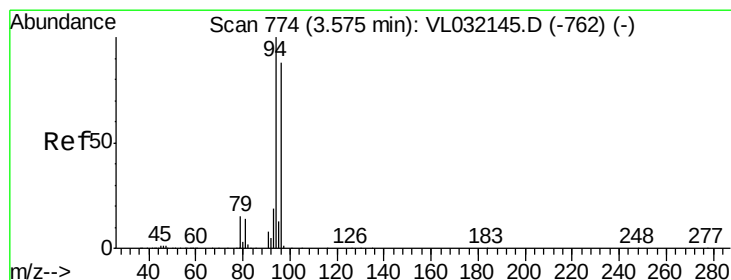
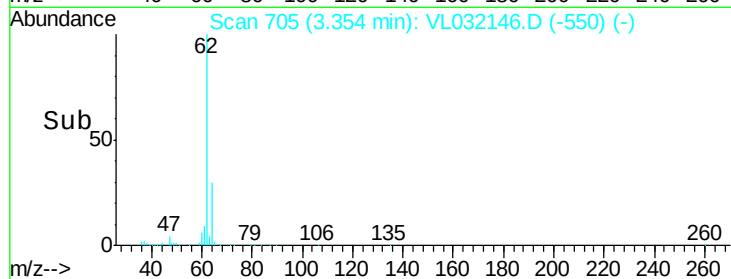
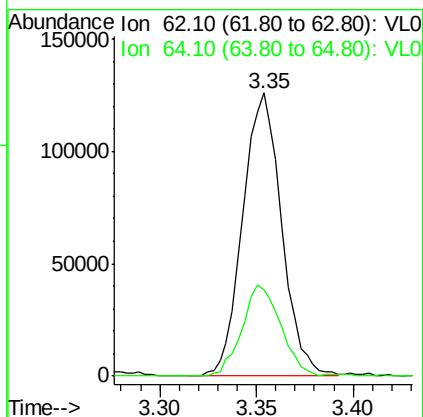
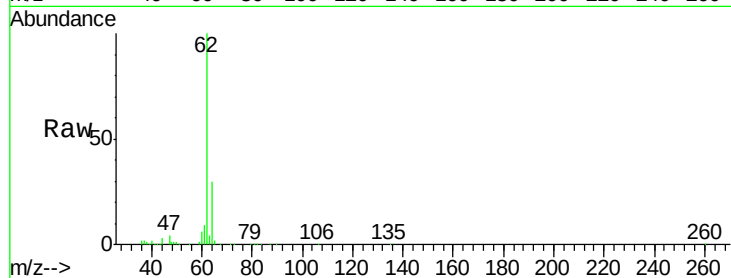
64 30.3 26.1 39.1

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#6

Bromomethane

Concen: 1.80 ppbv

RT: 3.58 min Scan# 775

Delta R.T. -0.01 min

Lab File: VL032146.D

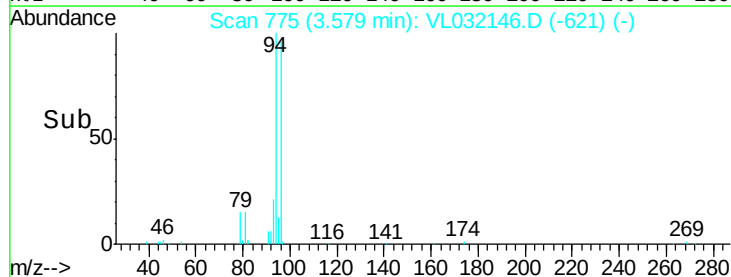
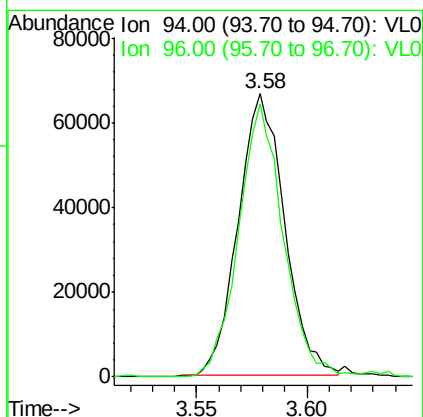
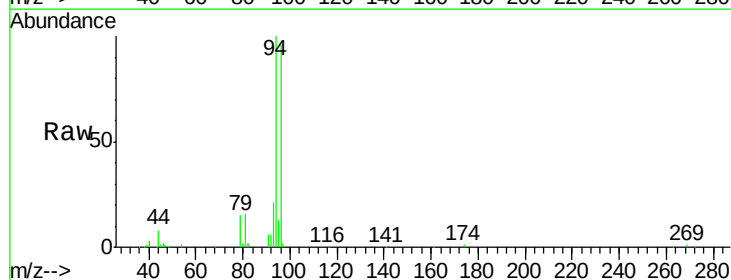
Acq: 29 Jun 2018 18:45

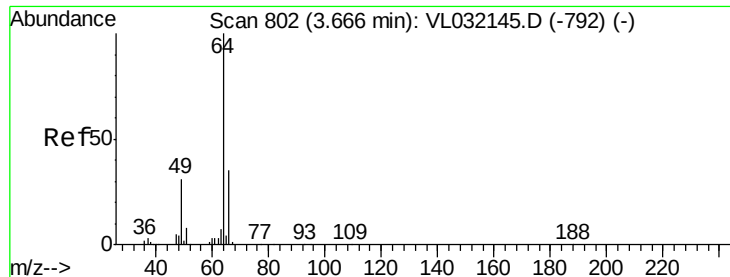
Tgt Ion: 94 Resp: 97090

Ion Ratio Lower Upper

94 100

96 96.7 74.7 112.1





#7

Chloroethane

Concen: 1.92 ppbv

RT: 3.66 min Scan# 801

Delta R.T. -0.01 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 64 Resp: 66213

Ion Ratio Lower Upper

64 100

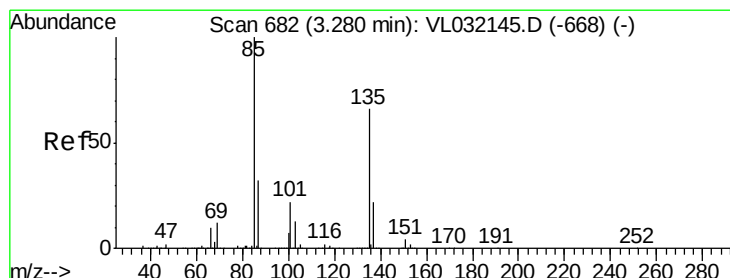
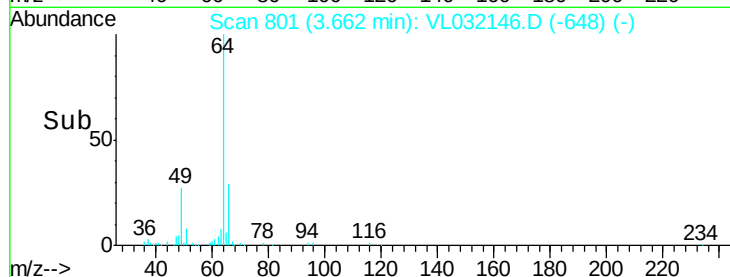
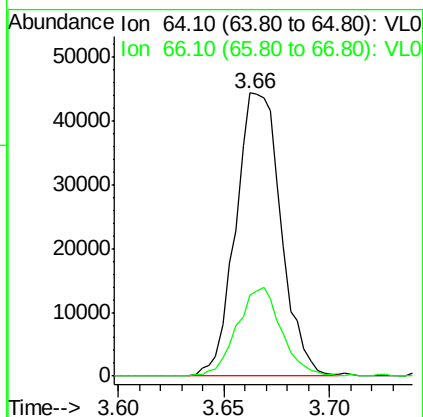
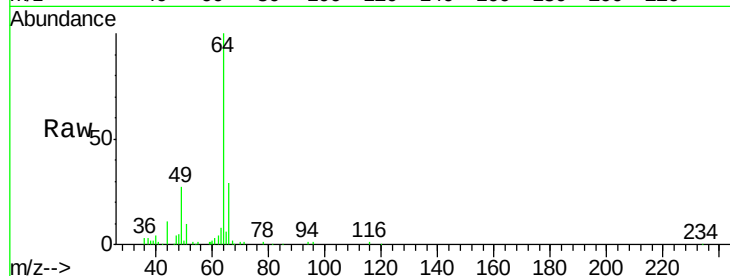
66 28.7 26.9 40.3

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 2.07 ppbv

RT: 3.28 min Scan# 682

Delta R.T. -0.01 min

Lab File: VL032146.D

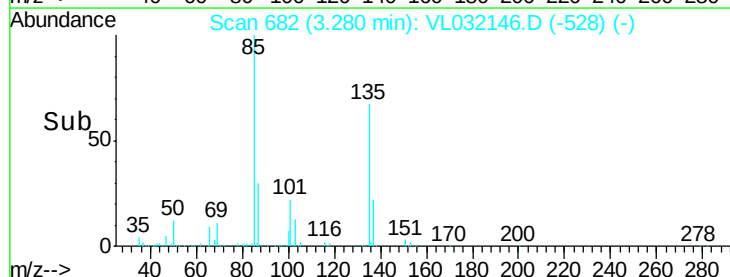
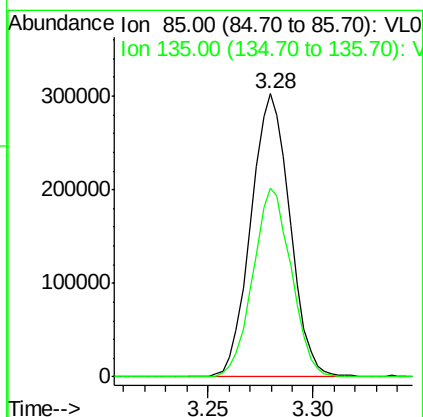
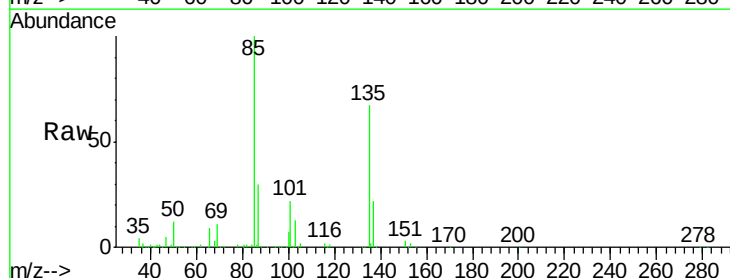
Acq: 29 Jun 2018 18:45

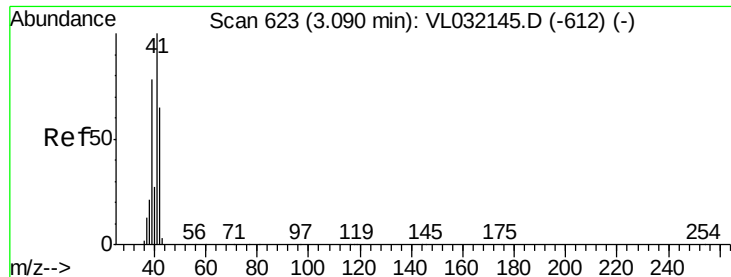
Tgt Ion: 85 Resp: 389230

Ion Ratio Lower Upper

85 100

135 65.9 54.6 82.0





#9

Propene

Concen: 1.88 ppbv

RT: 3.09 min Scan# 624

Delta R.T. -0.01 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDICC002

Tot Ion: 41 Resp: 155486

Ion Ratio Lower Upper

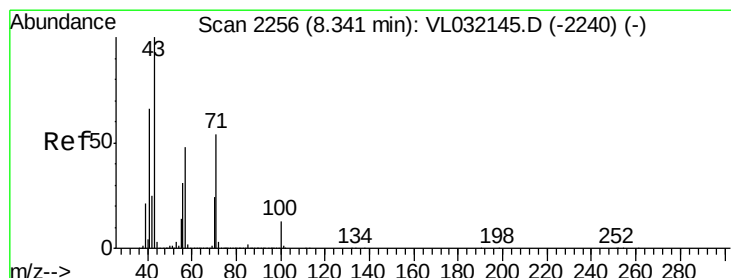
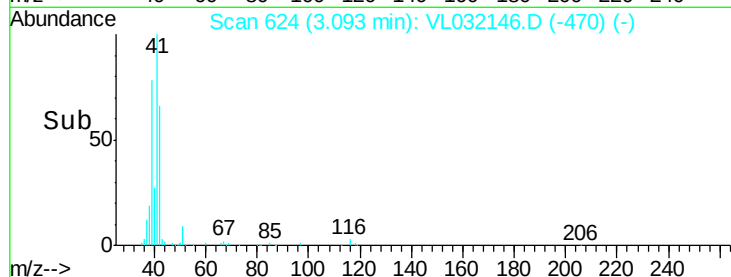
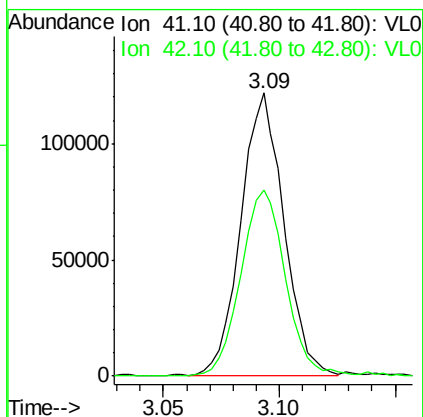
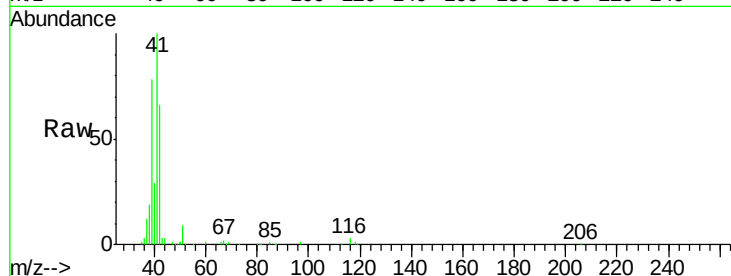
41 100

42 70.2 56.2 84.4

Manual Integrations
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#10

Heptane

Concen: 1.88 ppbv

RT: 8.34 min Scan# 2256

Delta R.T. -0.02 min

Lab File: VL032146.D

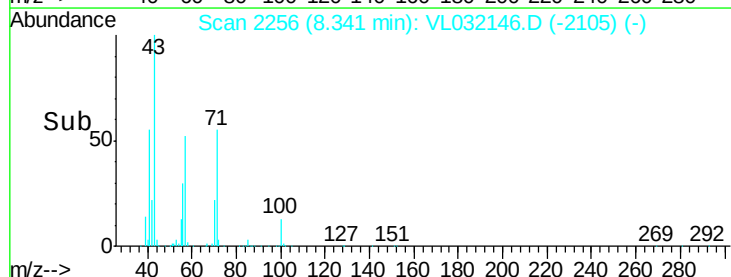
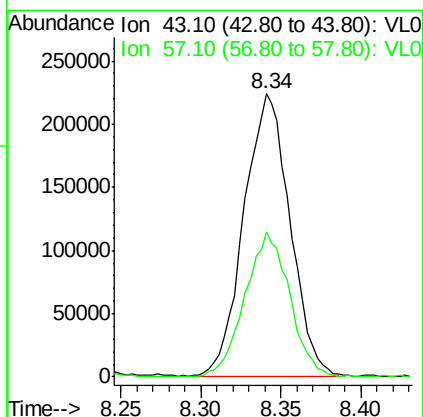
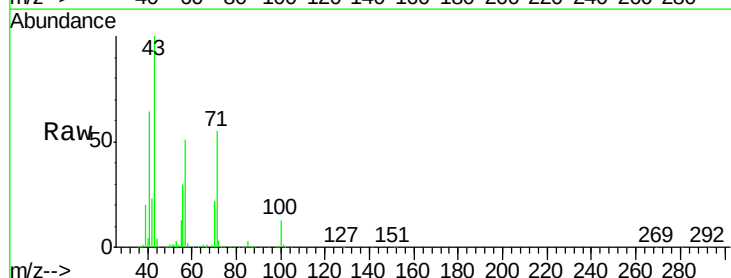
Acq: 29 Jun 2018 18:45

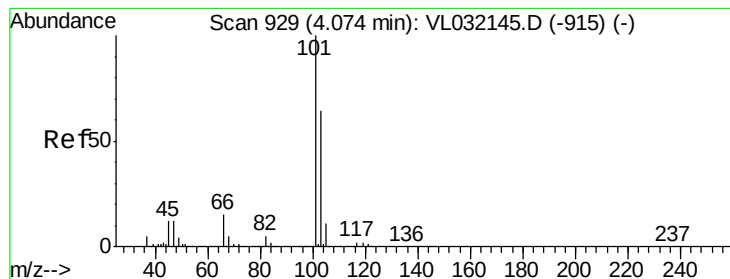
Tgt Ion: 43 Resp: 439805

Ion Ratio Lower Upper

43 100

57 49.9 39.8 59.8





#11

Trichlorofluoromethane

Concen: 2.21 ppbv

RT: 4.08 min Scan# 930

Delta R.T. -0.01 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:101 Resp: 396619

Ion Ratio Lower Upper

101 100

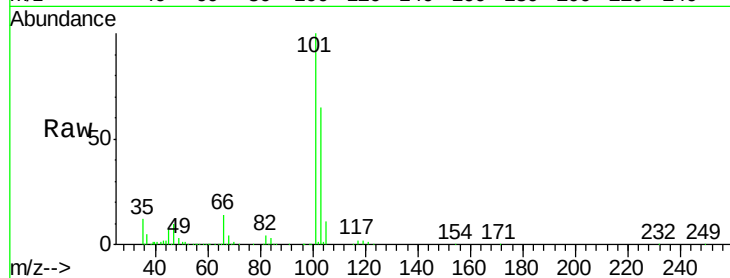
103 64.6 51.4 77.0

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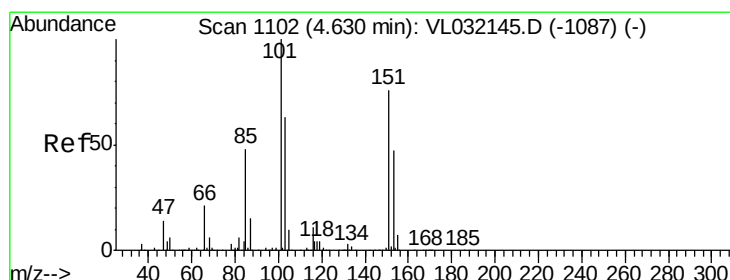
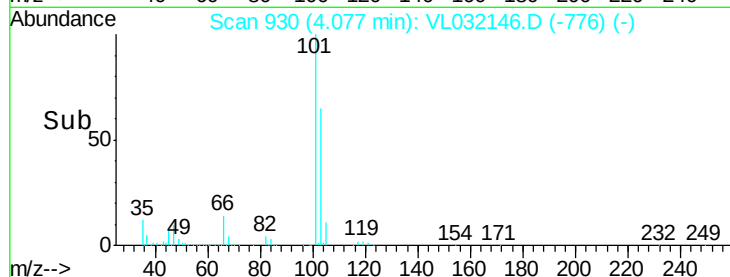
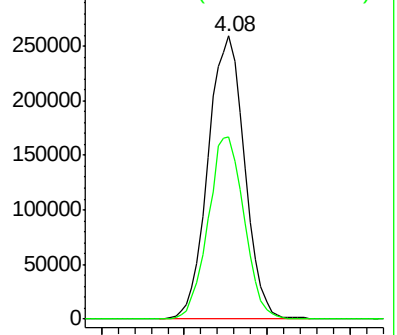
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 2.19 ppbv

RT: 4.63 min Scan# 1102

Delta R.T. -0.01 min

Lab File: VL032146.D

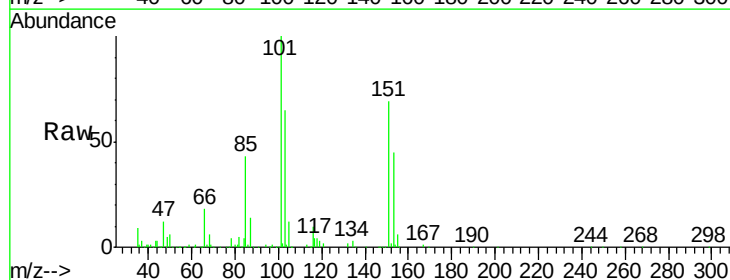
Acq: 29 Jun 2018 18:45

Tgt Ion:101 Resp: 265929

Ion Ratio Lower Upper

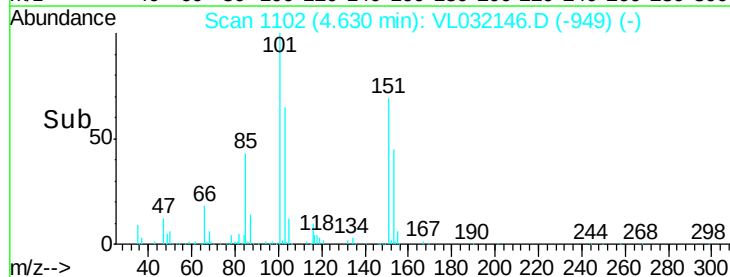
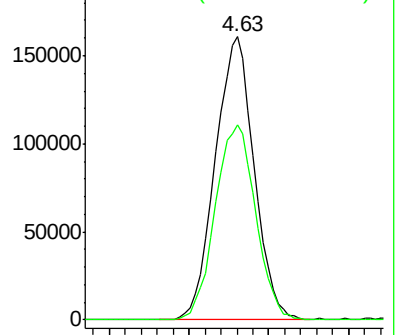
101 100

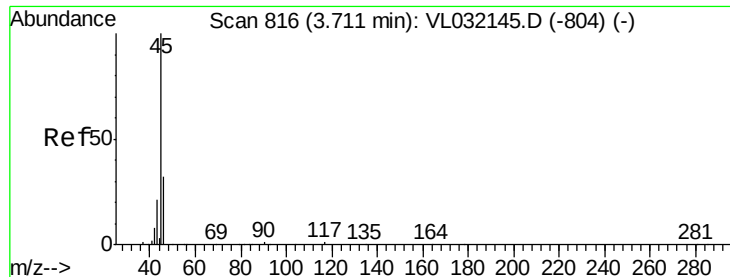
151 71.9 58.8 88.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

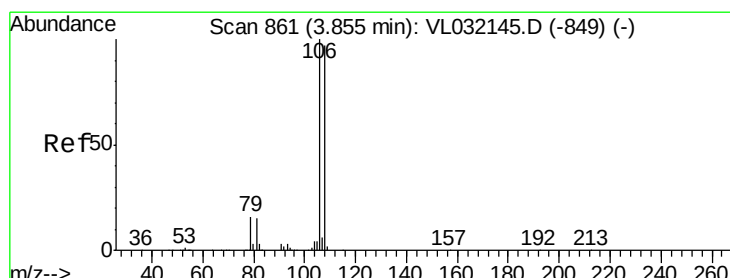
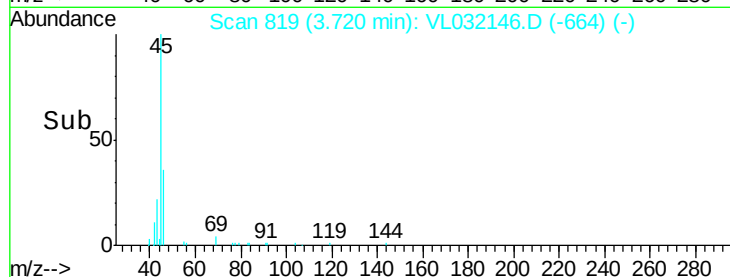
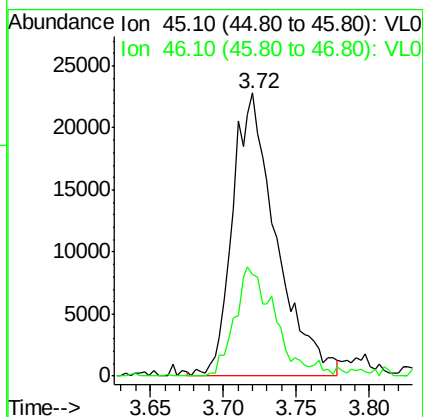
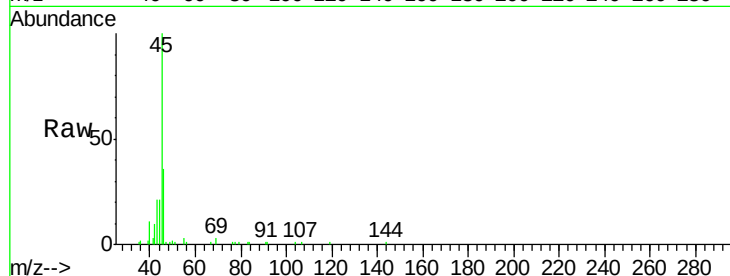
Concen: 1.90 ppbv m
 RT: 3.72 min Scan# 819
 Delta R.T. -0.00 min
 Lab File: VL032146.D
 Acq: 29 Jun 2018 18:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	45	Resp	47168
Ion Ratio	100	Lower	Upper
46	36.2	14.6	58.4

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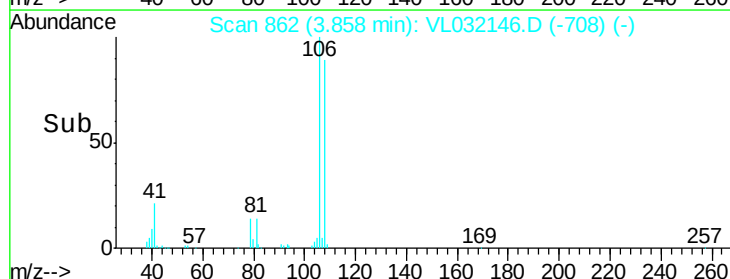
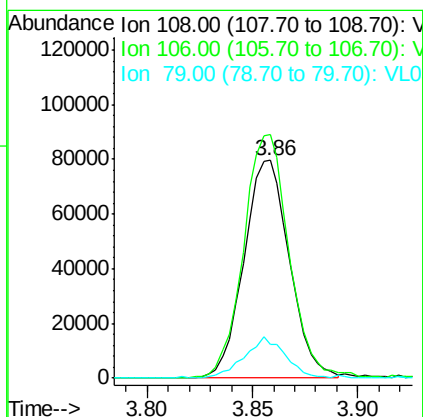
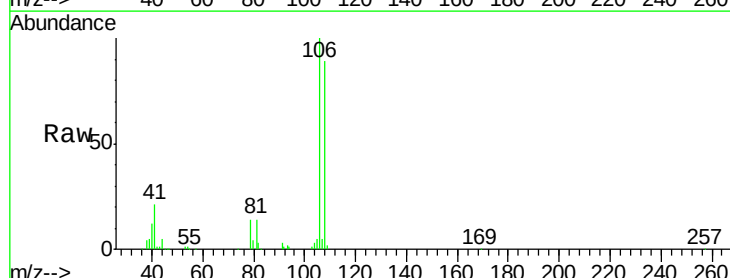


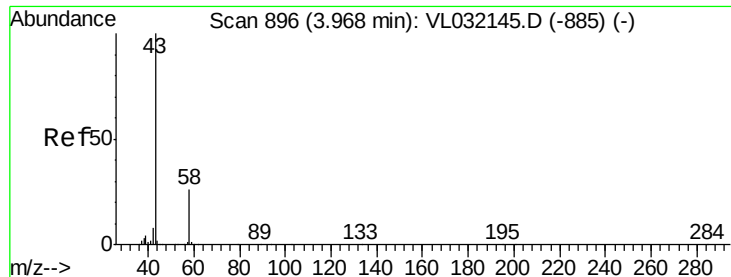
#14

Bromoethene

Concen: 2.00 ppbv
 RT: 3.86 min Scan# 862
 Delta R.T. -0.01 min
 Lab File: VL032146.D
 Acq: 29 Jun 2018 18:45

Tgt Ion	108	Resp	119596
Ion Ratio	100	Lower	Upper
106	112.7	86.3	129.5
79	17.6	12.7	19.1





#15

Acetone

Concen: 1.86 ppbv

RT: 3.97 min Scan# 898

Delta R.T. -0.00 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 43 Resp: 322331

Ion Ratio Lower Upper

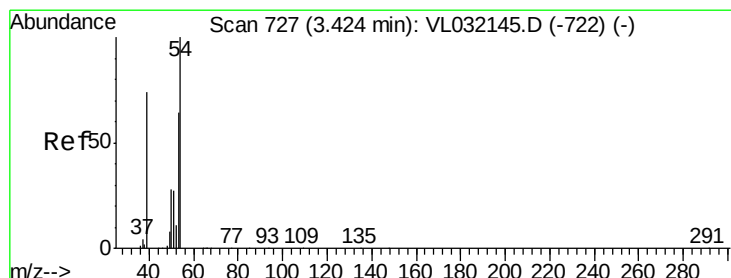
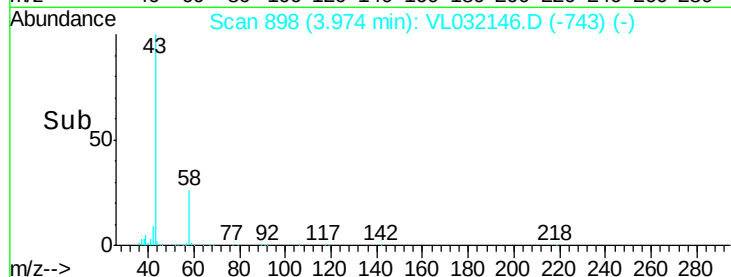
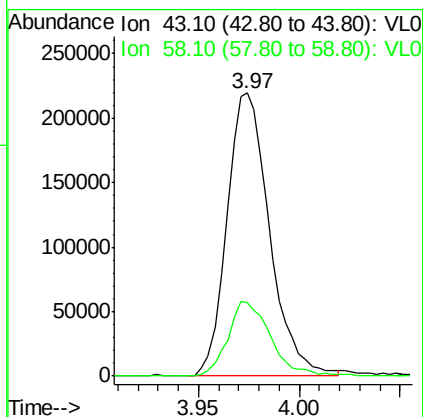
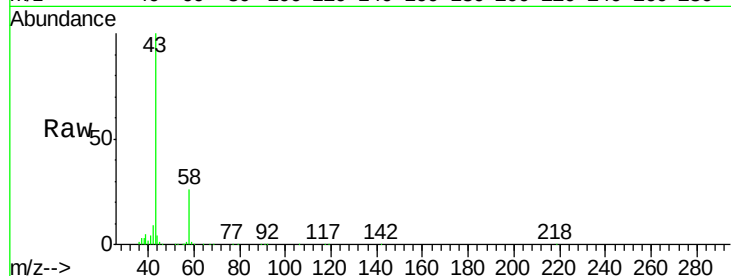
43 100

58 27.0 21.4 32.0

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#16

1,3-Butadiene

Concen: 1.83 ppbv

RT: 3.42 min Scan# 727

Delta R.T. -0.01 min

Lab File: VL032146.D

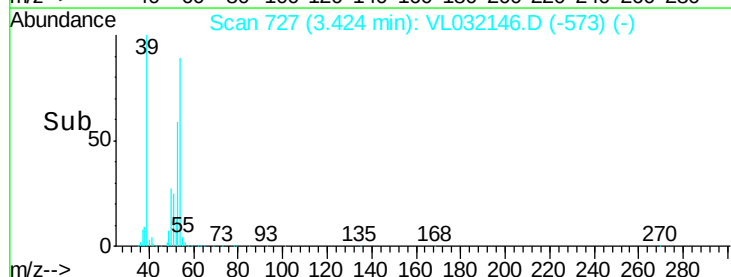
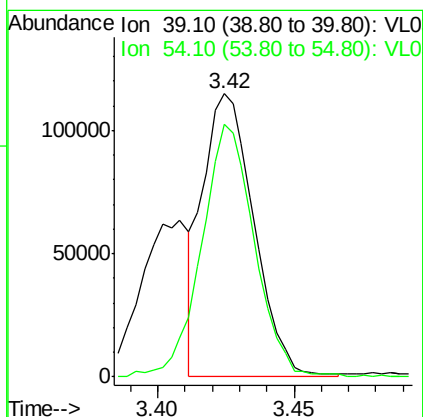
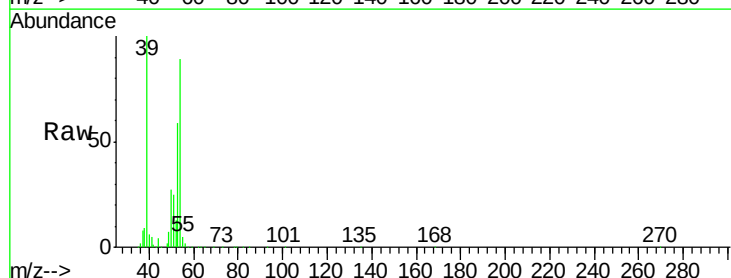
Acq: 29 Jun 2018 18:45

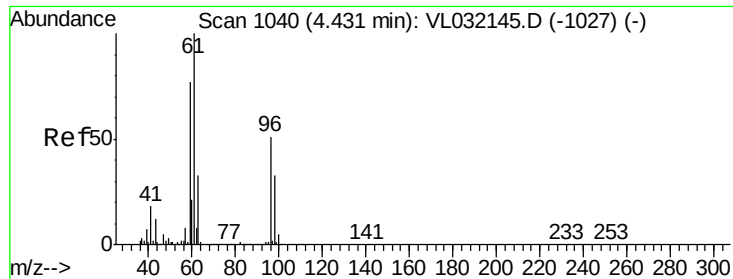
Tgt Ion: 39 Resp: 148388

Ion Ratio Lower Upper

39 100

54 93.7 75.8 113.6





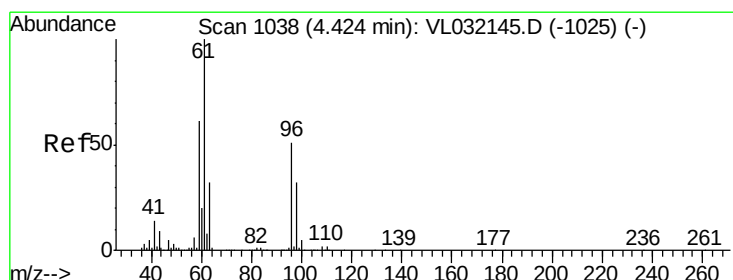
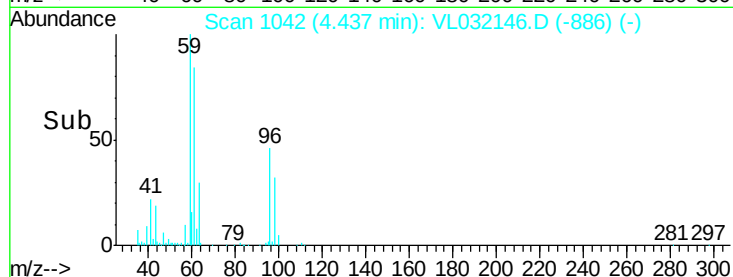
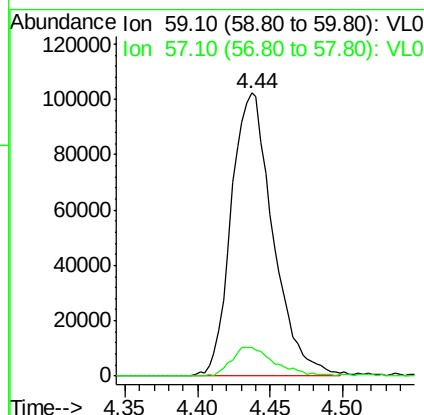
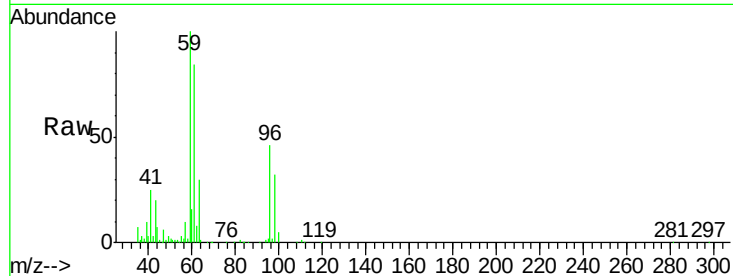
#17
 tert-Butyl alcohol
 Concen: 1.97 ppbv
 RT: 4.44 min Scan# 1042
 Delta R.T. 0.00 min
 Lab File: VL032146.D
 Acq: 29 Jun 2018 18:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	59	Resp	204454
Ion Ratio	Lower	Upper	
59	100		
57	10.6	8.2	12.2

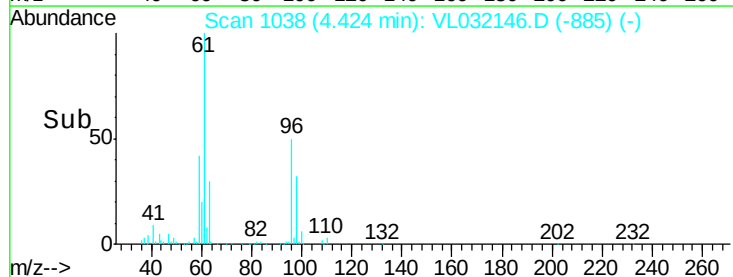
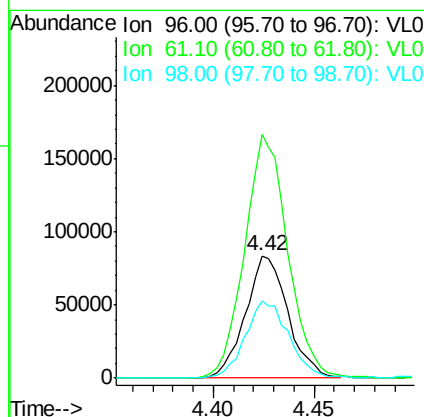
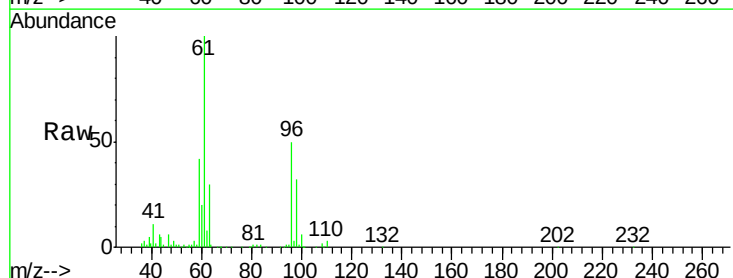
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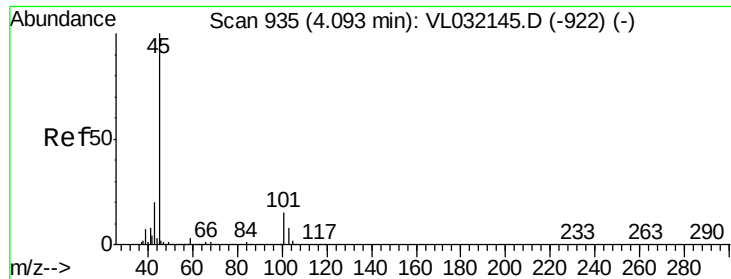
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#18
 1,1-Dichloroethene
 Concen: 2.07 ppbv
 RT: 4.42 min Scan# 1038
 Delta R.T. -0.01 min
 Lab File: VL032146.D
 Acq: 29 Jun 2018 18:45

Tgt Ion	96	Resp	123479
Ion Ratio	Lower	Upper	
96	100		
61	199.1	154.1	231.1
98	62.9	50.3	75.5





#19

Isopropyl Alcohol

Concen: 1.96 ppbv

RT: 4.10 min Scan# 937

Delta R.T. -0.00 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 45 Resp: 266050

Ion Ratio Lower Upper

45 100

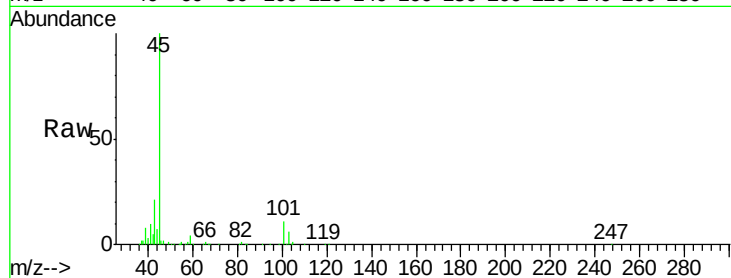
58 1.0 29.4 44.0#

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

150000

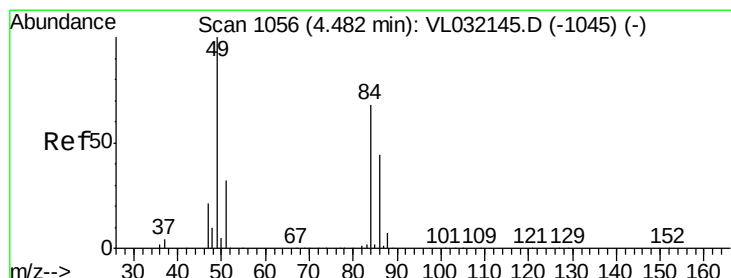
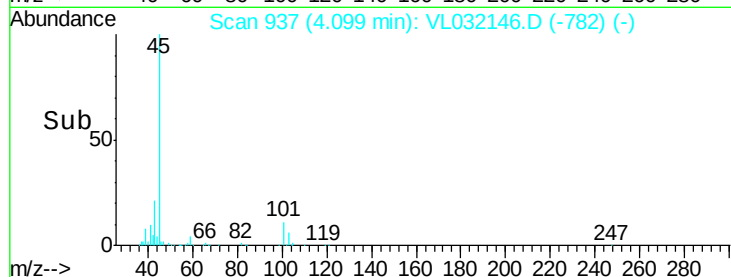
100000

50000

0

4.05 4.10 4.15 4.20

Time-->



#20

Methylene Chloride

Concen: 1.93 ppbv

RT: 4.49 min Scan# 1057

Delta R.T. -0.01 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

Tgt Ion: 84 Resp: 112953

Ion Ratio Lower Upper

84 100

49 149.1 119.6 179.4

51 48.0 36.3 54.5

86 65.1 49.7 74.5

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

150000

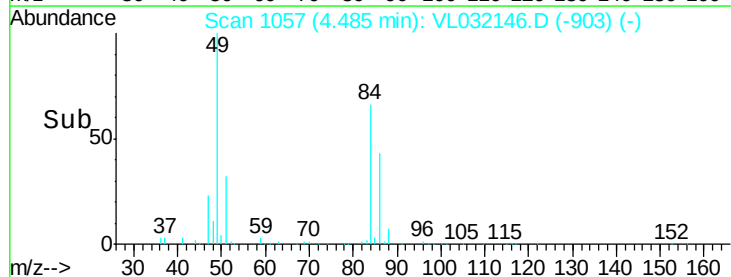
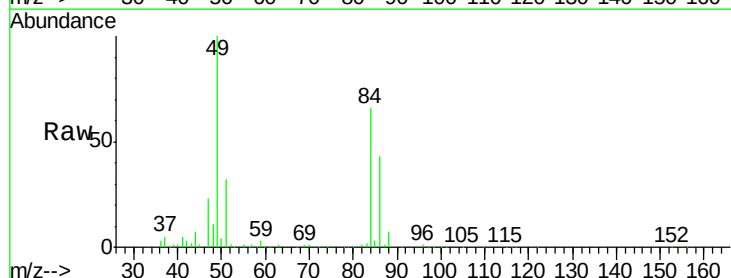
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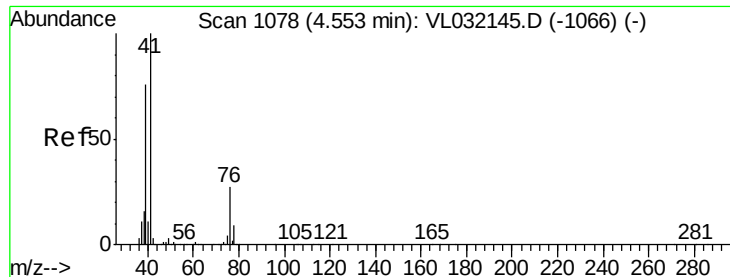
50000

0

4.45 4.49 4.55

Time-->





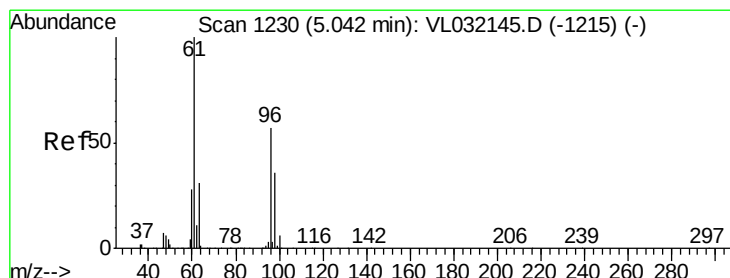
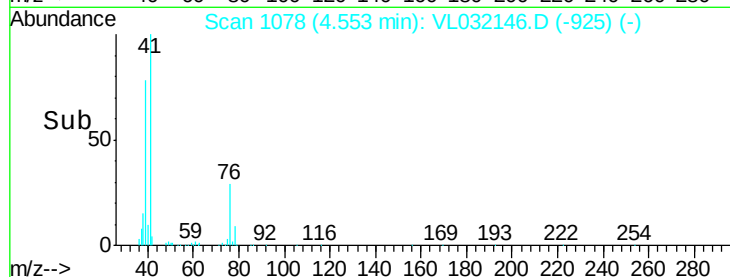
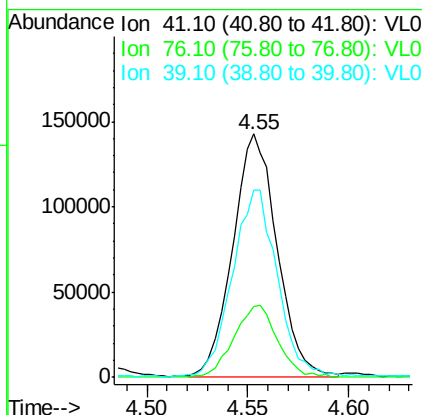
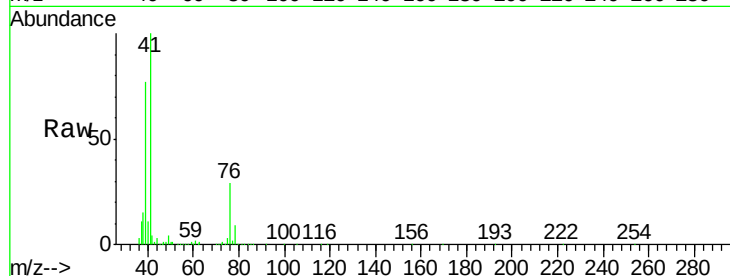
#21
Allvl Chloride
Concen: 2.03 ppbv
RT: 4.55 min Scan# 1078
Delta R.T. -0.01 min
Lab File: VL032146.D
Acq: 29 Jun 2018 18:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
41	100		
76	29.6	22.5	33.7
39	78.4	60.5	90.7

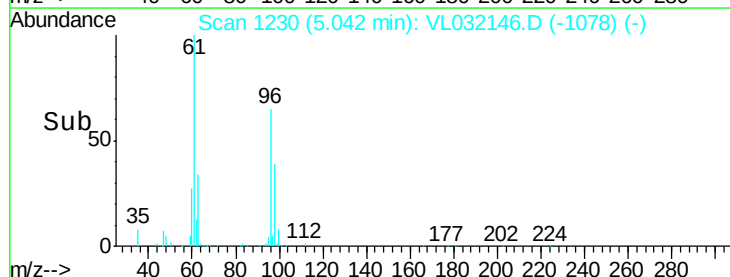
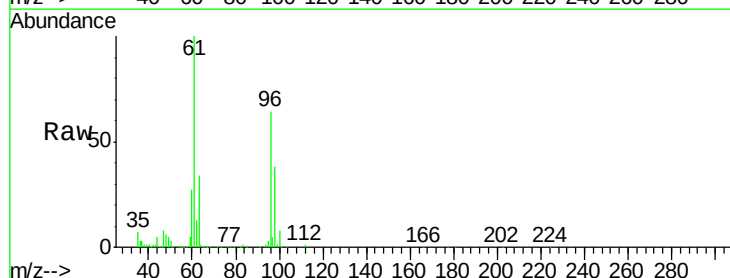
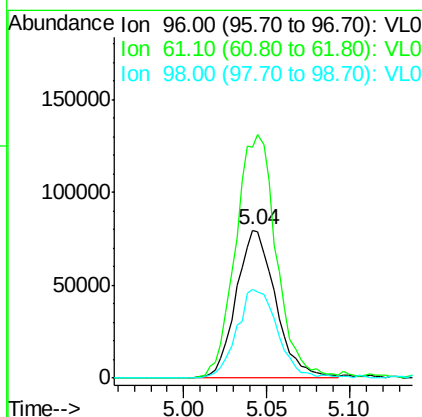
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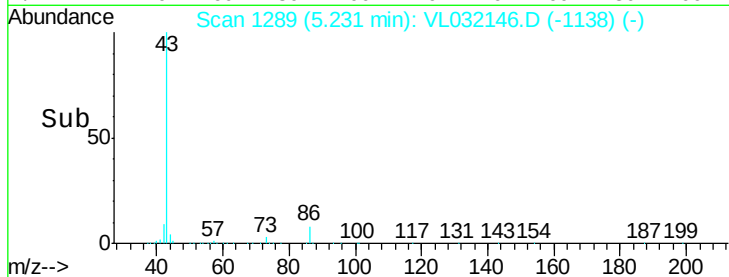
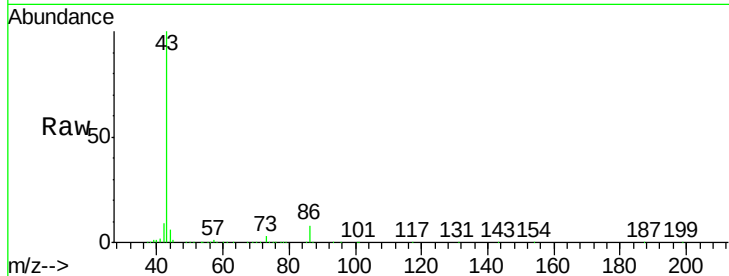
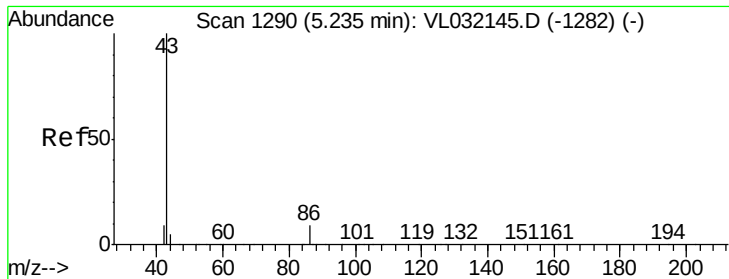
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#22
trans-1,2-Dichloroethene
Concen: 2.17 ppbv
RT: 5.04 min Scan# 1230
Delta R.T. -0.01 min
Lab File: VL032146.D
Acq: 29 Jun 2018 18:45

Tgt Ion	Ratio	Lower	Upper
96	100		
61	155.7	135.2	202.8
98	59.3	49.7	74.5





#23

Vinyl Acetate

Concen: 2.13 ppbv

RT: 5.23 min Scan# 1289

Delta R.T. -0.02 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100		560410		
86	8.0	6.2	9.4		
42	8.3	6.9	10.3		
44	5.0	3.8	5.8		

Instrument :

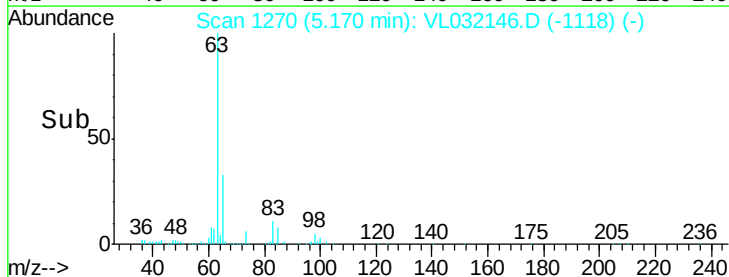
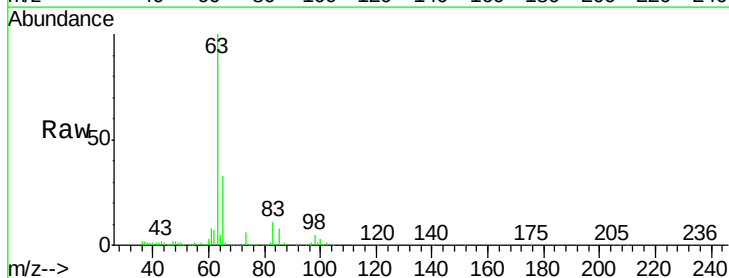
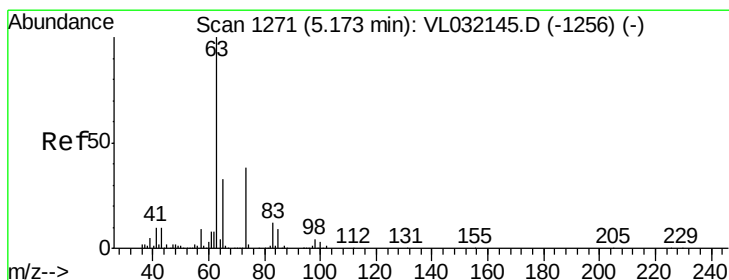
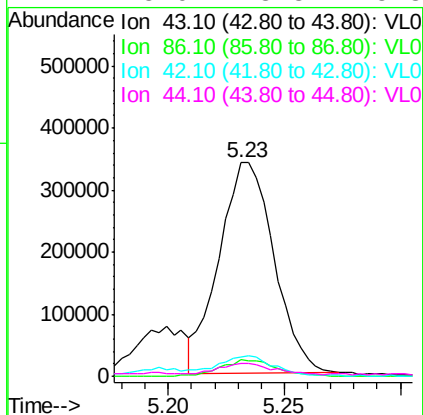
MSVOA_L

ClientSampleId :

VSTDIC002

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#24

1,1-Dichloroethane

Concen: 1.92 ppbv

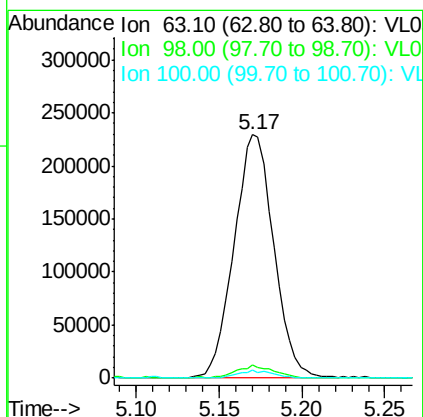
RT: 5.17 min Scan# 1270

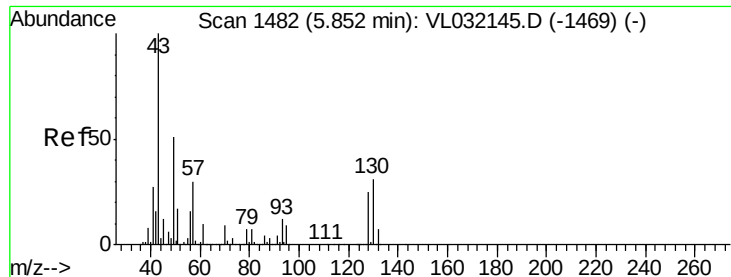
Delta R.T. -0.01 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
63	100		379859		
98	5.3	2.4	7.2		
100	3.1	1.7	5.0		





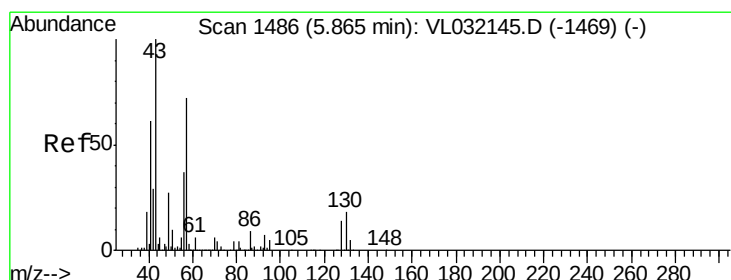
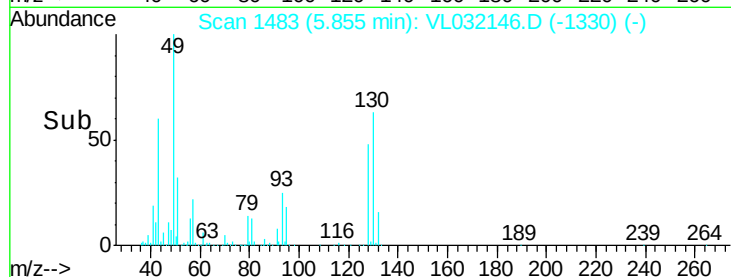
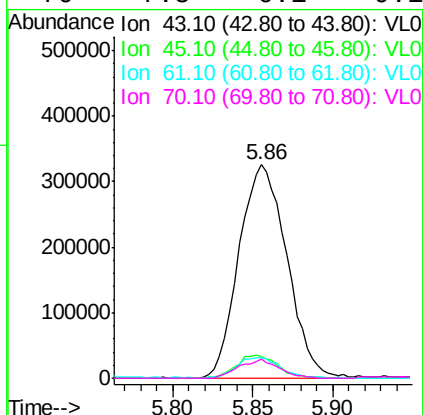
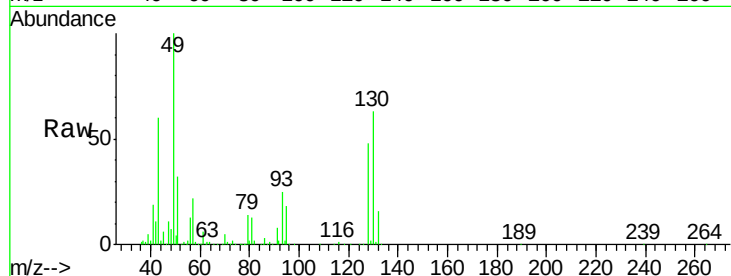
#25
Ethyl Acetate
Concen: 1.75 ppbv
RT: 5.86 min Scan# 1483
Delta R.T. -0.01 min
Lab File: VL032146.D
Acq: 29 Jun 2018 18:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.7	7.8	11.8
61	8.9	7.4	11.0
70	7.5	6.1	9.1

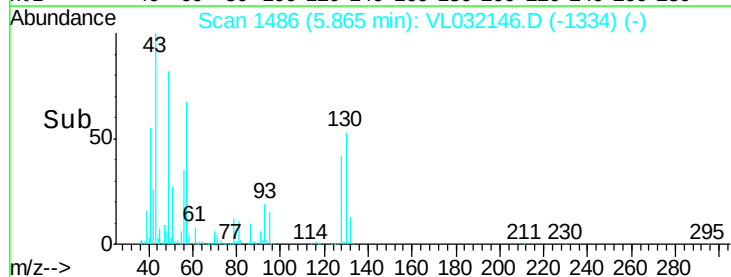
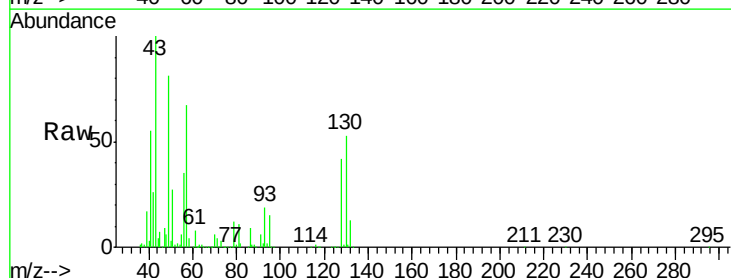
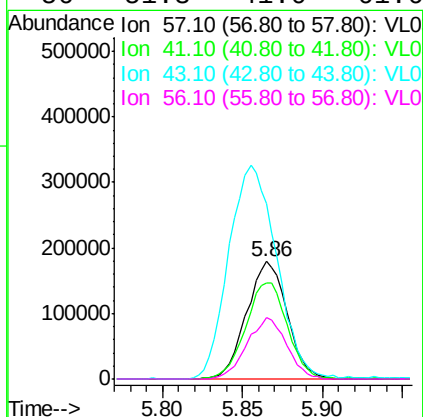
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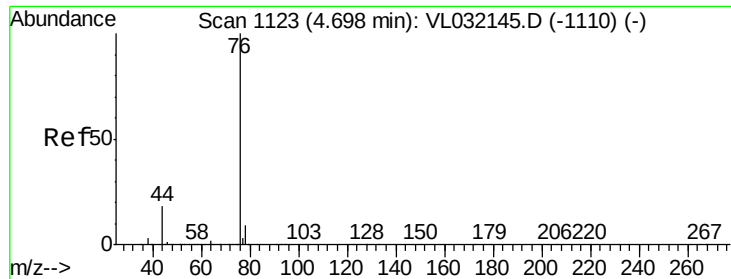
MMDadoda
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#26
Hexane
Concen: 1.86 ppbv
RT: 5.86 min Scan# 1486
Delta R.T. -0.01 min
Lab File: VL032146.D
Acq: 29 Jun 2018 18:45

Tgt Ion	Ratio	Lower	Upper
57	100		
41	85.5	68.6	103.0
43	213.4	168.6	252.8
56	51.3	41.0	61.6





#27

Carbon Disulfide

Concen: 1.83 ppbv

RT: 4.70 min Scan# 1124

Delta R.T. -0.01 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

Instrument :

MSVOA_L

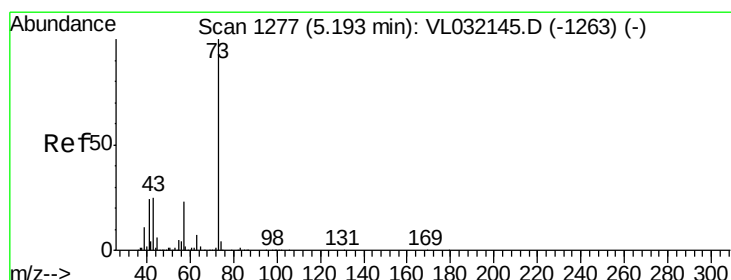
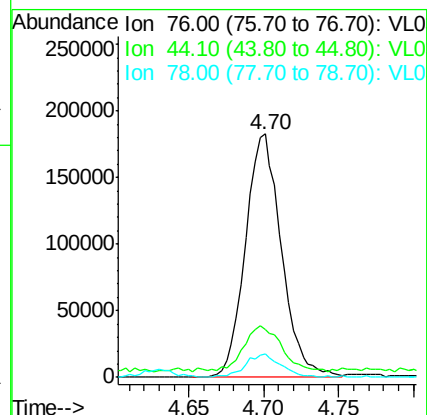
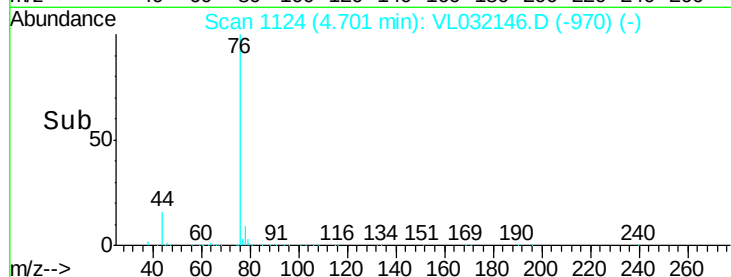
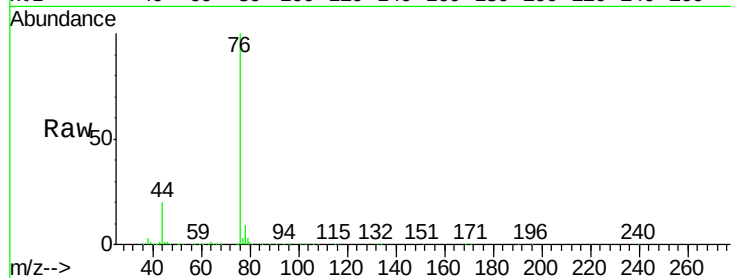
ClientSampleId :

VSTDIC002

Tot Ion:	76	Resp:	307066
Ion Ratio	Lower	Upper	
76	100		
44	18.5	15.1	22.7
78	9.4	7.2	10.8

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 2.58 ppbv

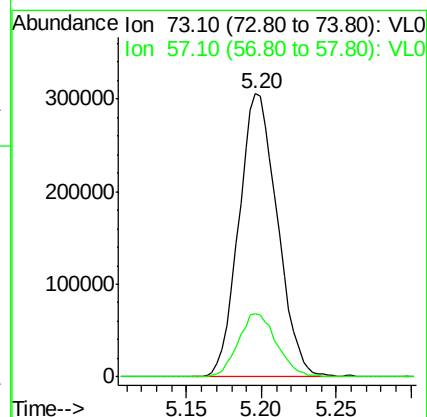
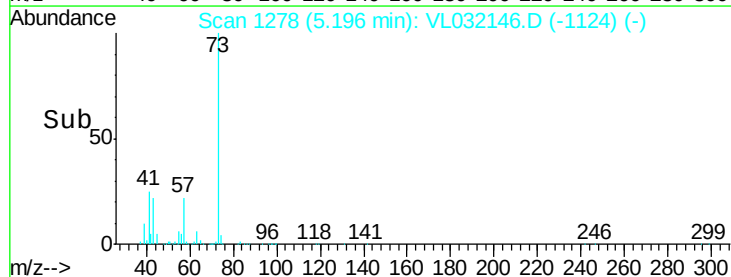
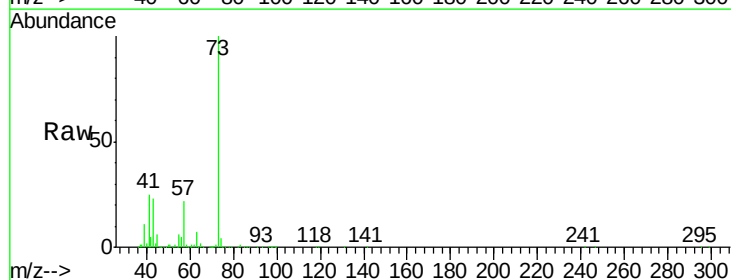
RT: 5.20 min Scan# 1278

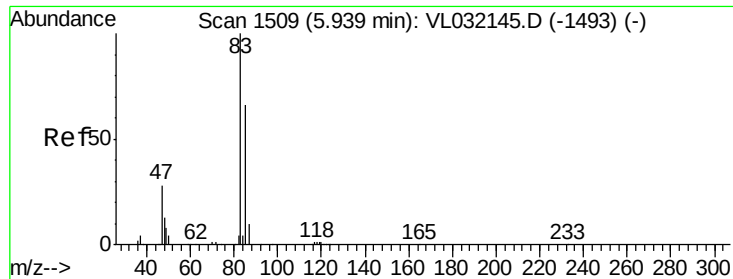
Delta R.T. -0.01 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

Tgt Ion:	73	Resp:	547813
Ion Ratio	Lower	Upper	
73	100		
57	22.6	18.6	27.8





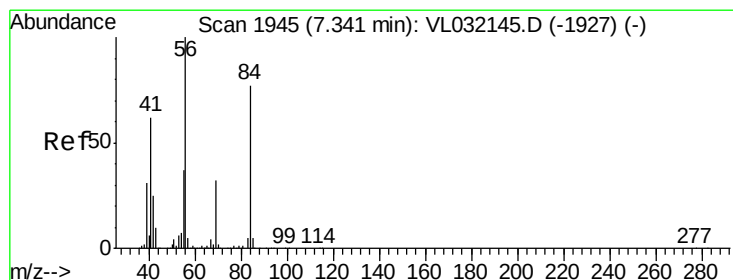
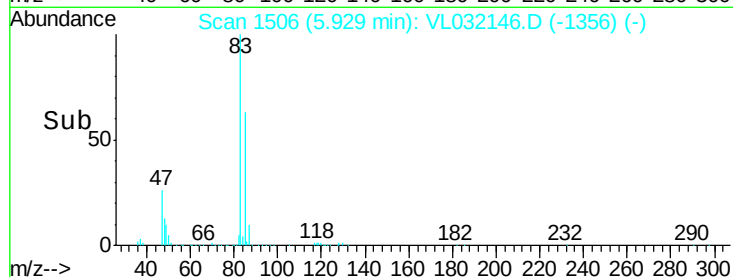
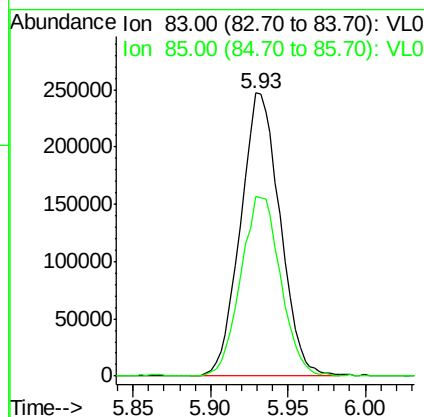
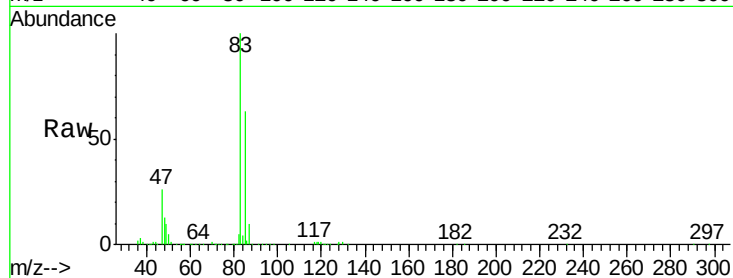
#29
Chloroform
Concen: 1.98 ppbv
RT: 5.93 min Scan# 1506
Delta R.T. -0.02 min
Lab File: VL032146.D
Acq: 29 Jun 2018 18:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	83	Resp	438932
Ion Ratio	Lower	Upper	
83	100		
85	63.3	51.6	77.4

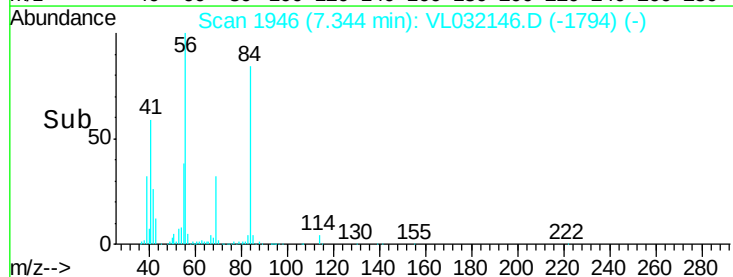
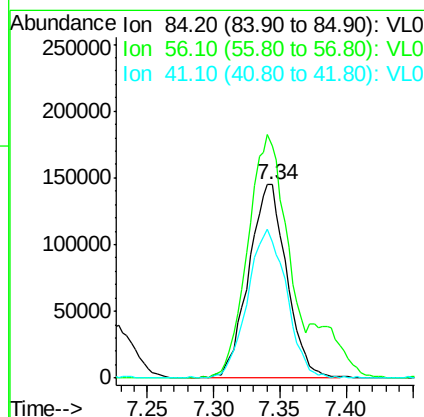
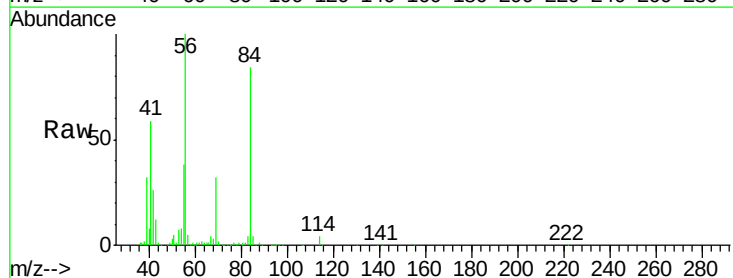
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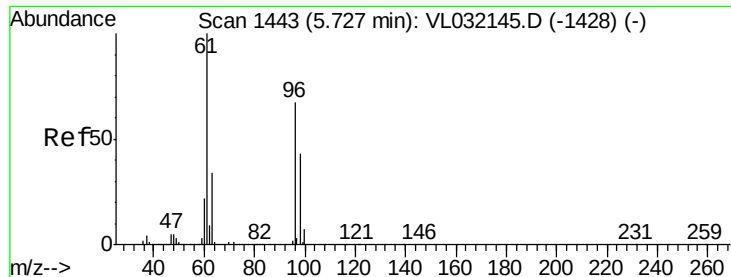
MMDadoda
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#30
Cyclohexane
Concen: 2.10 ppbv
RT: 7.34 min Scan# 1946
Delta R.T. -0.01 min
Lab File: VL032146.D
Acq: 29 Jun 2018 18:45

Tgt Ion	84	Resp	290197
Ion Ratio	Lower	Upper	
84	100		
56	153.6	109.1	163.7
41	79.6	64.6	96.8





#31

cis-1,2-Dichloroethene

Concen: 2.05 ppbv

RT: 5.72 min Scan# 1442

Delta R.T. -0.02 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

Instrument :

MSVOA_L

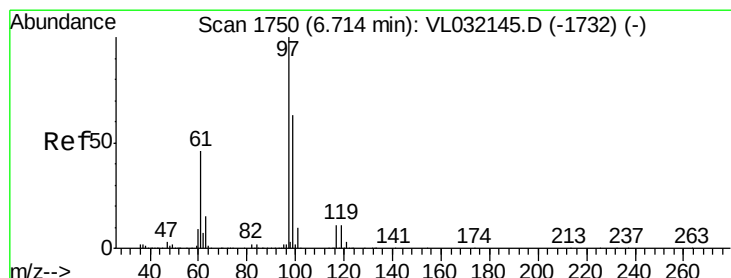
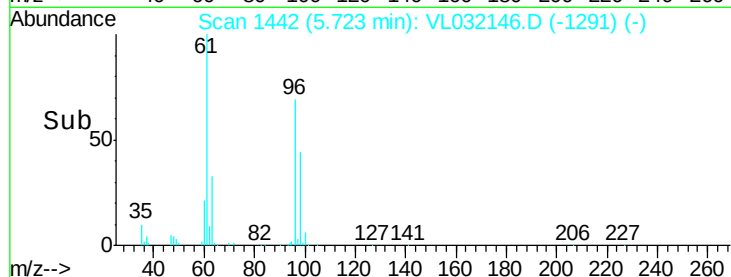
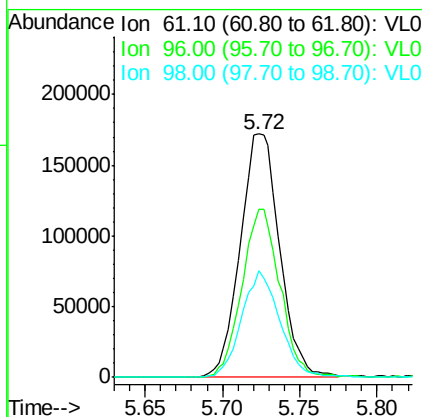
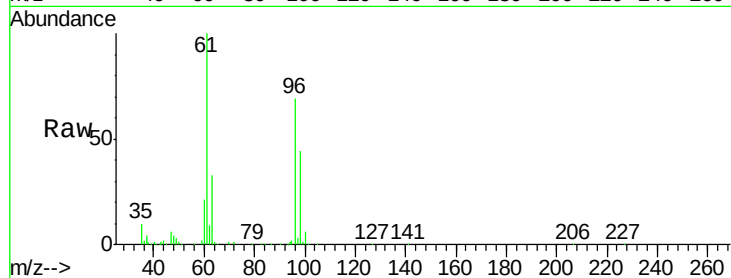
ClientSampleId :

VSTDIC002

Tot Ion:	61	Resp:	306045
Ion Ratio		Lower	Upper
61	100		
96	68.7	54.2	81.4
98	43.8	34.6	52.0

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#32

1,1,1-Trichloroethane

Concen: 1.90 ppbv

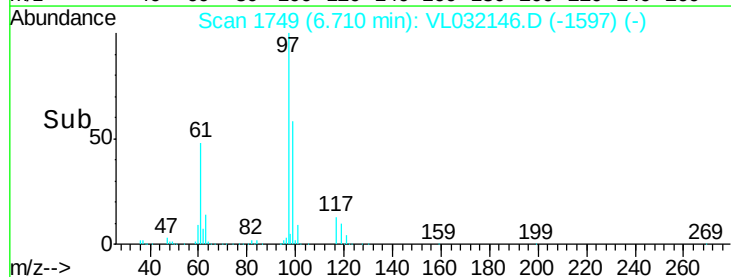
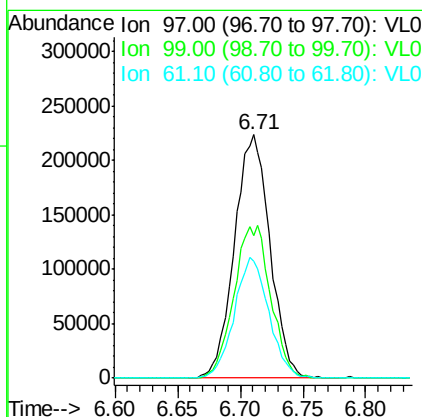
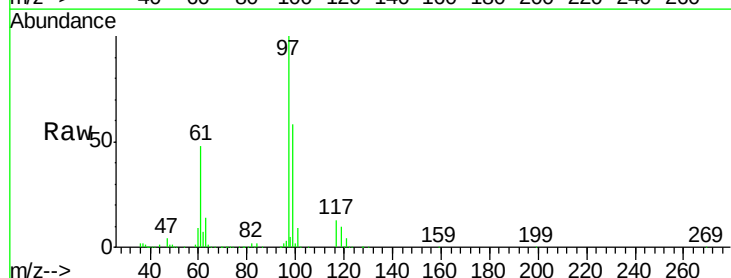
RT: 6.71 min Scan# 1749

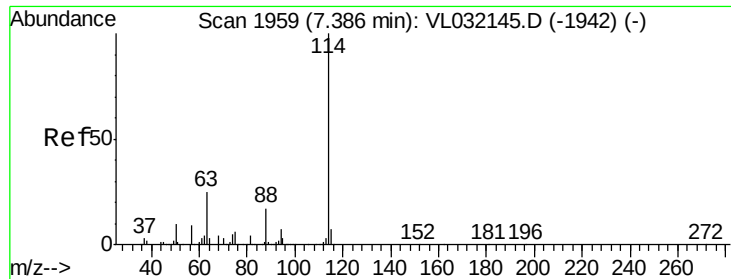
Delta R.T. -0.01 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

Tgt Ion:	97	Resp:	440400
Ion Ratio		Lower	Upper
97	100		
99	64.7	51.3	76.9
61	48.3	38.4	57.6





#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.38 min Scan# 1958
 Delta R.T. -0.02 min
 Lab File: VL032146.D
 Acq: 29 Jun 2018 18:45

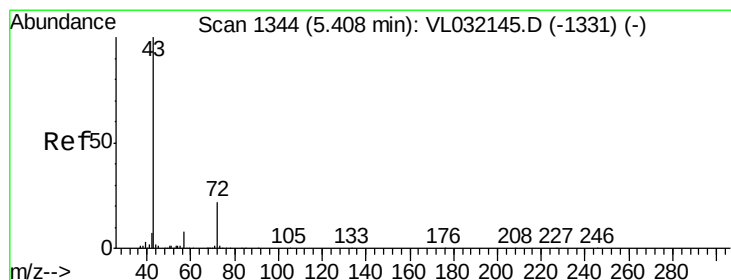
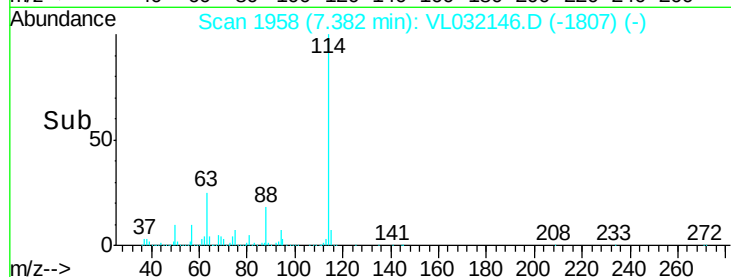
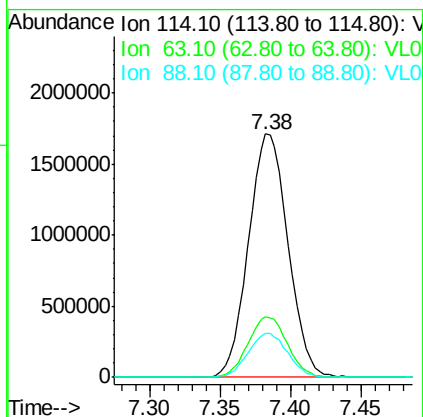
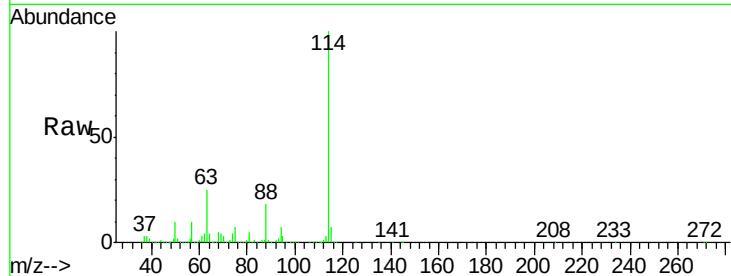
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion:114 Resp: 3357676

Ion	Ratio	Lower	Upper
114	100		
63	25.0	19.1	28.7
88	18.3	13.9	20.9

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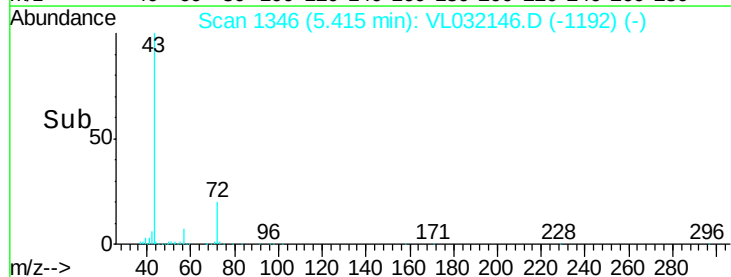
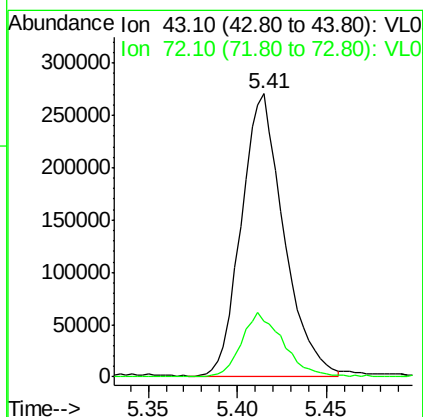
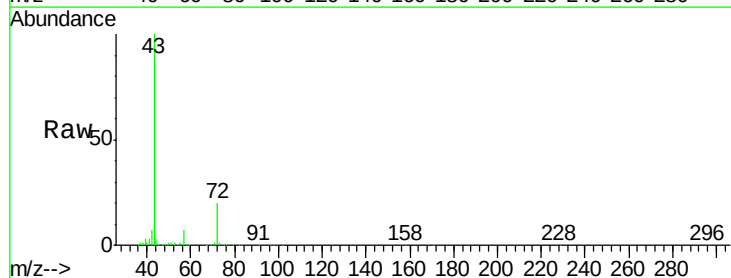
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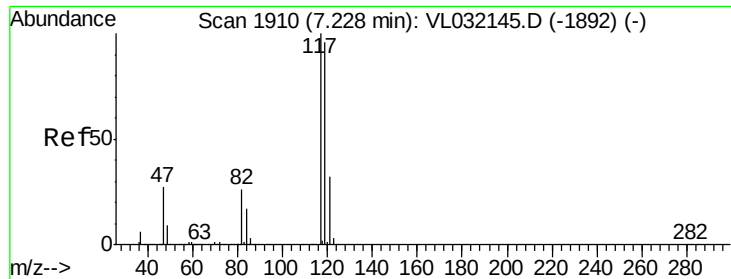


#34
 2-Butanone
 Concen: 1.64 ppbv
 RT: 5.41 min Scan# 1346
 Delta R.T. -0.01 min
 Lab File: VL032146.D
 Acq: 29 Jun 2018 18:45

Tgt Ion: 43 Resp: 447406

Ion	Ratio	Lower	Upper
43	100		
72	22.7	18.4	27.6





#35

Carbon Tetrachloride

Concen: 1.93 ppbv

RT: 7.22 min Scan# 1909

Delta R.T. -0.02 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

Instrument :

MSVOA_L

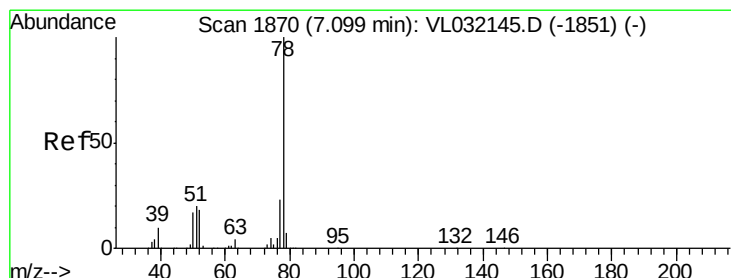
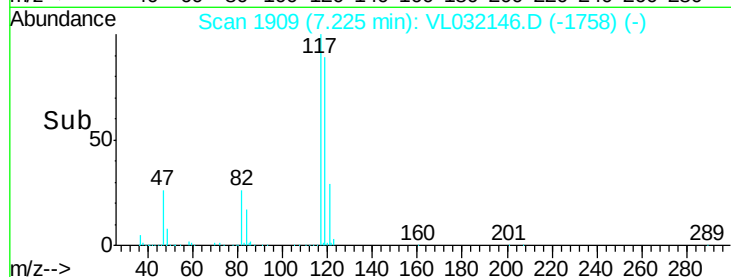
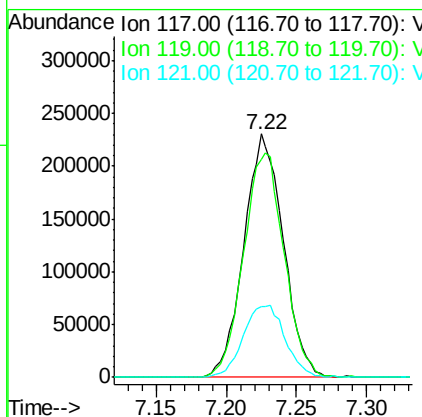
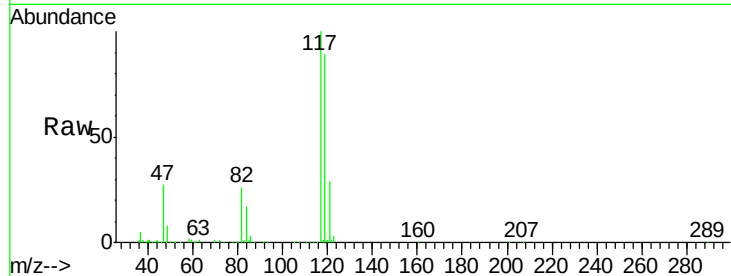
ClientSampleId :

VSTDIC002

Tot Ion:	117	Resp:	450612
Ion Ratio	Lower	Upper	
117	100		
119	89.2	74.8	112.2
121	29.1	24.0	36.0

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#36

Benzene

Concen: 1.79 ppbv

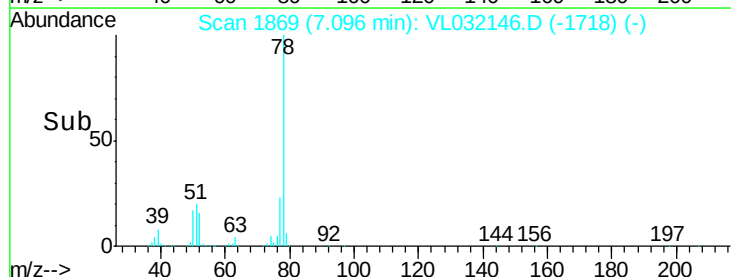
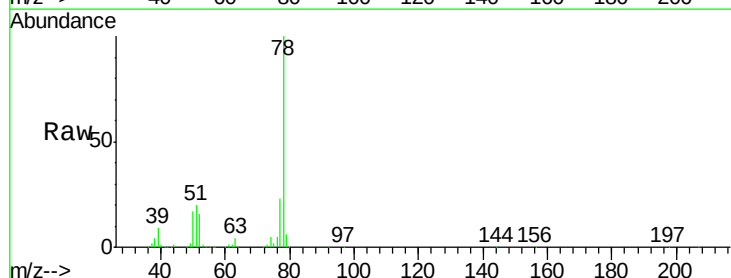
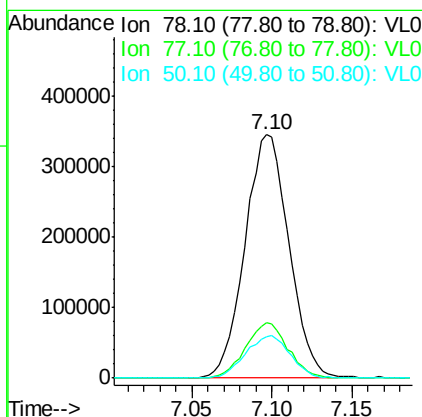
RT: 7.10 min Scan# 1869

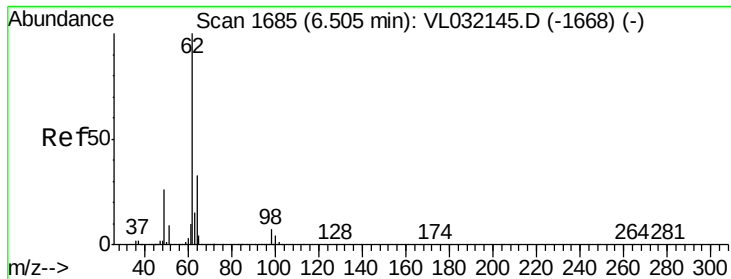
Delta R.T. -0.02 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

Tgt Ion:	78	Resp:	649894
Ion Ratio	Lower	Upper	
78	100		
77	22.6	17.7	26.5
50	17.0	14.0	21.0





#37

1,2-Dichloroethane

Concen: 1.78 ppbv

RT: 6.50 min Scan# 1683

Delta R.T. -0.02 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 62 Resp: 333767

Ion Ratio Lower Upper

62 100

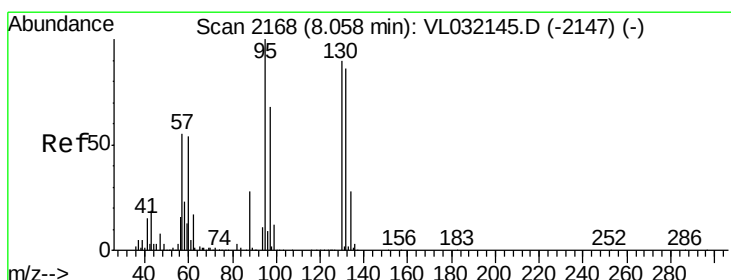
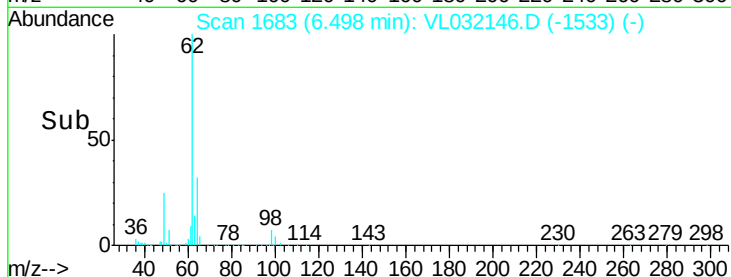
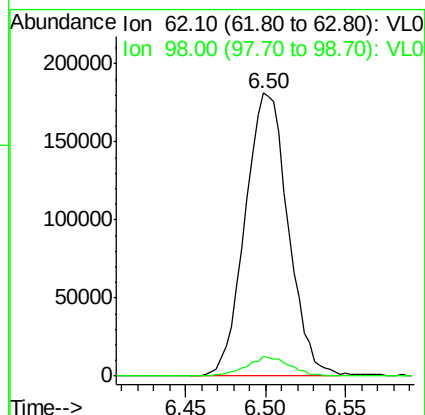
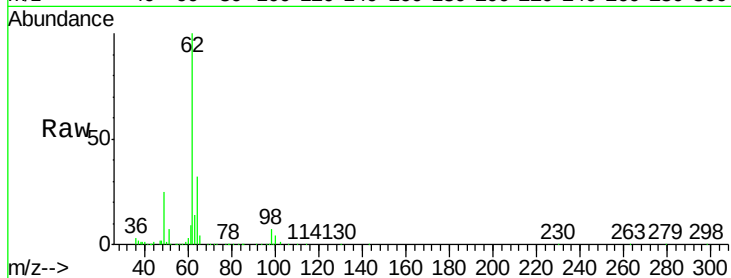
98 7.0 5.8 8.6

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#38

Trichloroethene

Concen: 1.81 ppbv

RT: 8.06 min Scan# 2168

Delta R.T. -0.01 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

Tgt Ion: 130 Resp: 253657

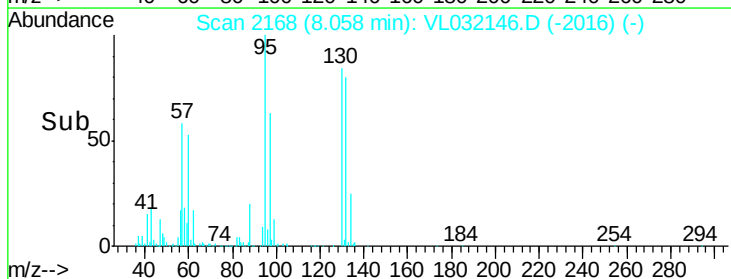
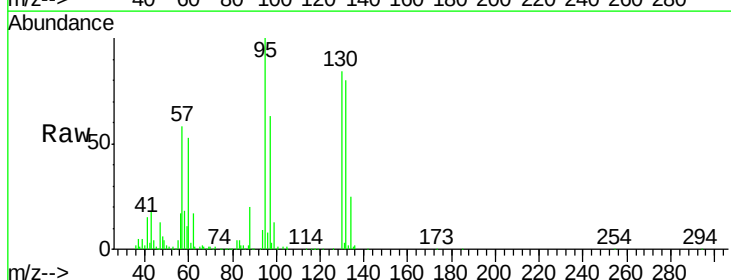
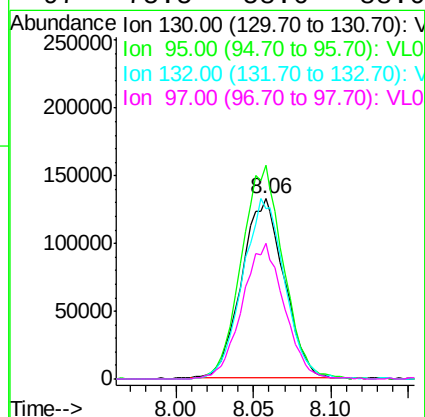
Ion Ratio Lower Upper

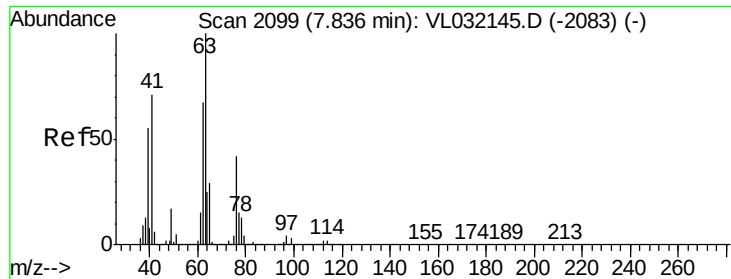
130 100

95 119.1 88.1 132.1

132 94.5 74.6 112.0

97 75.5 58.6 88.0





#39

1,2-Dichloropropane

Concen: 2.03 ppbv

RT: 7.83 min Scan# 2098

Delta R.T. -0.02 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

Instrument :

MSVOA_L

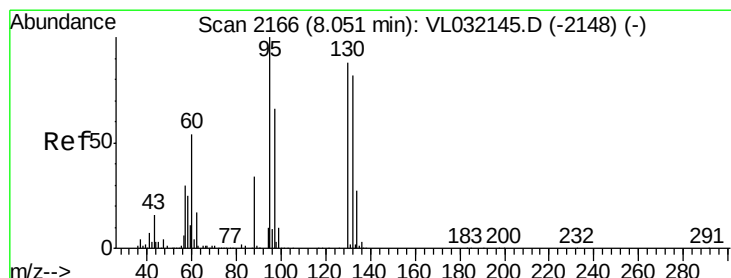
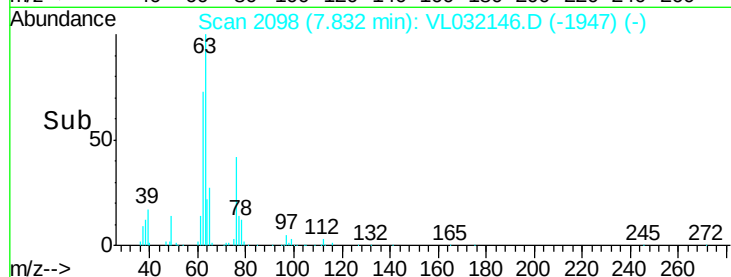
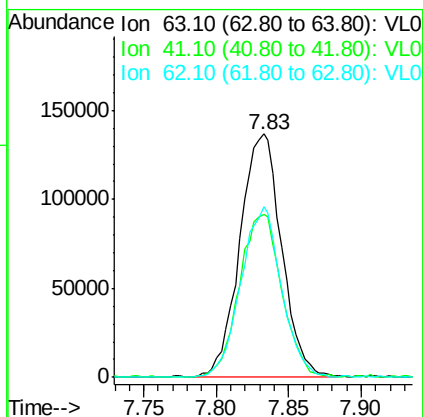
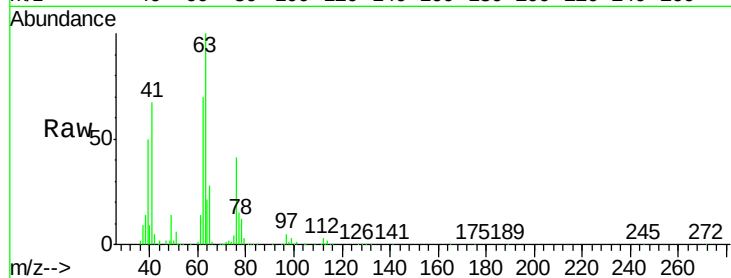
ClientSampleId :

VSTDIC002

Tot Ion:	63	Resp:	271644
Ion	Ratio	Lower	Upper
63	100		
41	66.7	53.3	79.9
62	70.0	54.8	82.2

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#40

1,4-Dioxane

Concen: 1.70 ppbv m

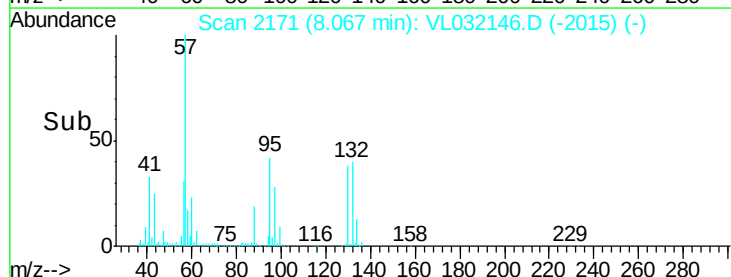
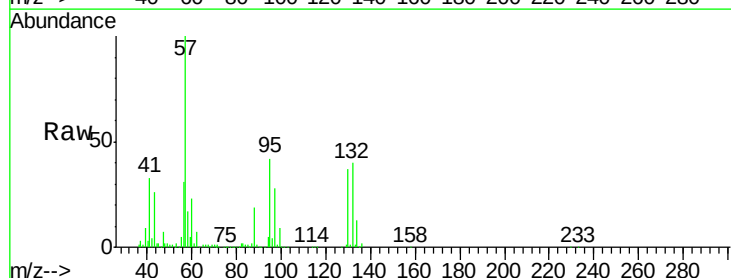
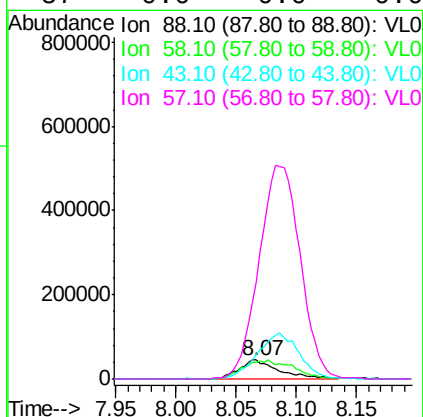
RT: 8.07 min Scan# 2171

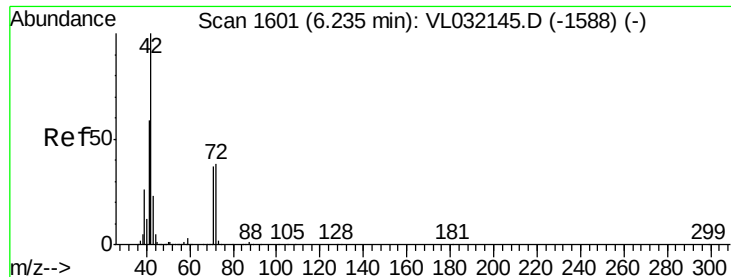
Delta R.T. 0.00 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

Tgt Ion:	88	Resp:	106133
Ion	Ratio	Lower	Upper
88	100		
58	0.0	47.4	71.0#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





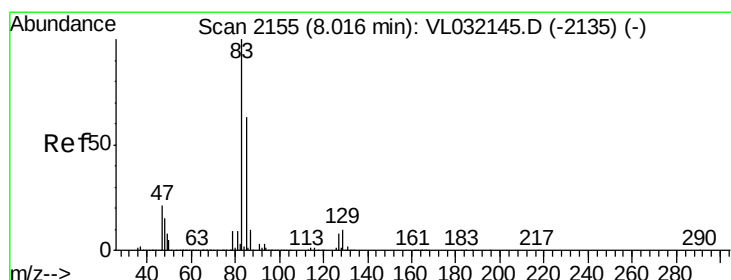
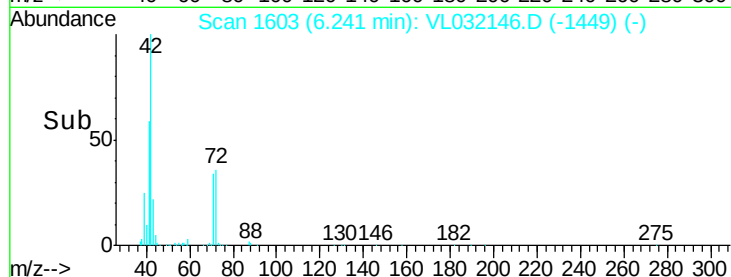
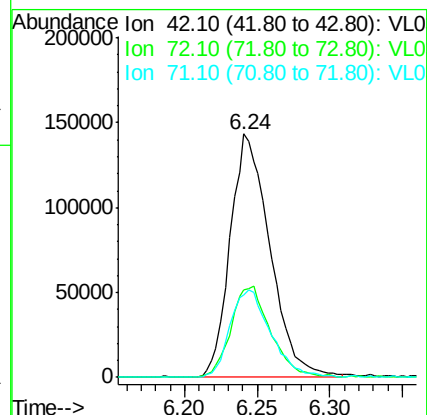
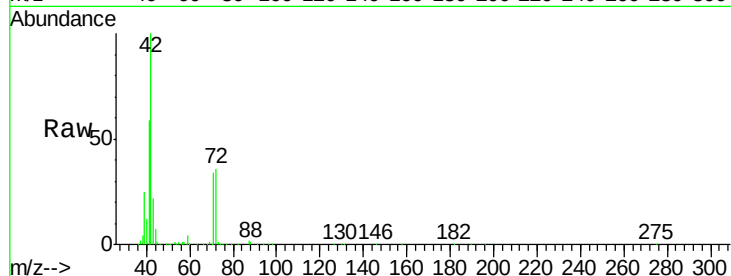
#41
Tetrahydrofuran
Concen: 1.66 ppbv
RT: 6.24 min Scan# 1603
Delta R.T. -0.01 min
Lab File: VL032146.D
Acq: 29 Jun 2018 18:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
42	100		
72	38.0	31.1	46.7
71	37.1	29.5	44.3

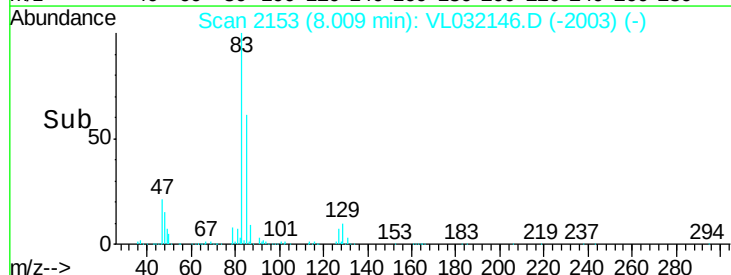
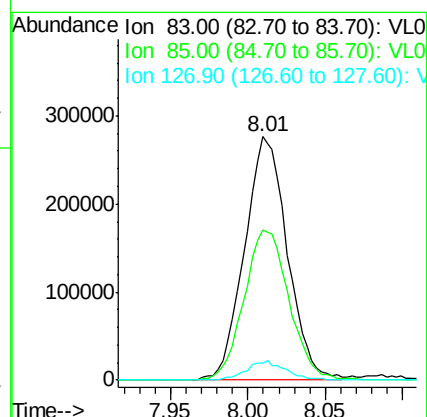
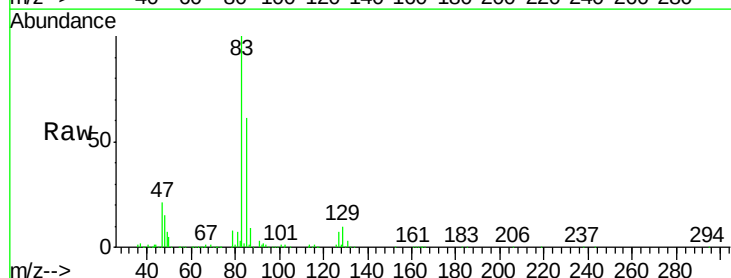
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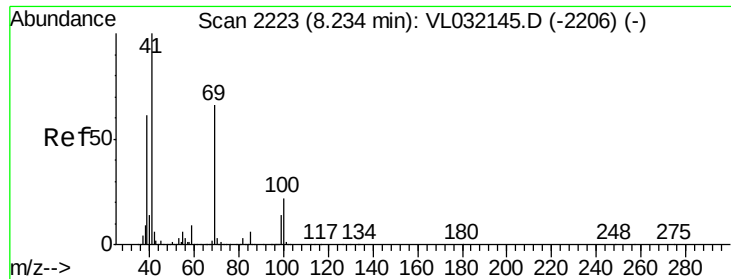
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#42
Bromodichloromethane
Concen: 2.09 ppbv
RT: 8.01 min Scan# 2153
Delta R.T. -0.02 min
Lab File: VL032146.D
Acq: 29 Jun 2018 18:45

Tgt Ion	Ratio	Lower	Upper
83	100		
85	61.5	52.6	79.0
127	7.1	6.5	9.7





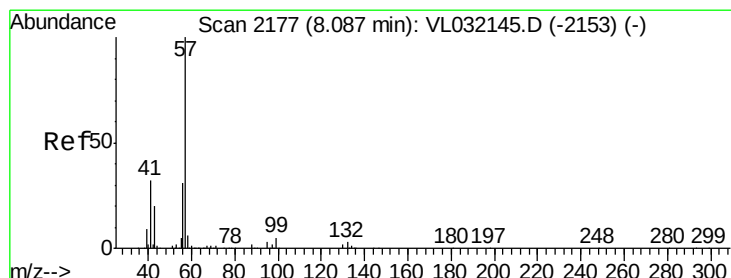
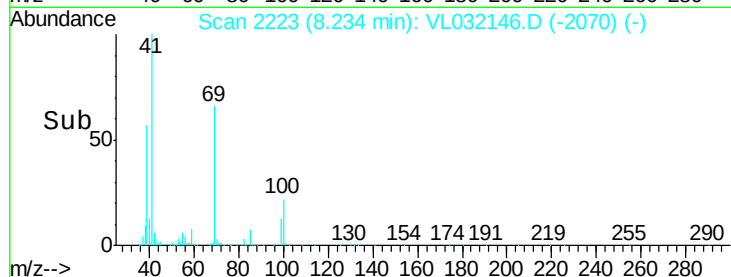
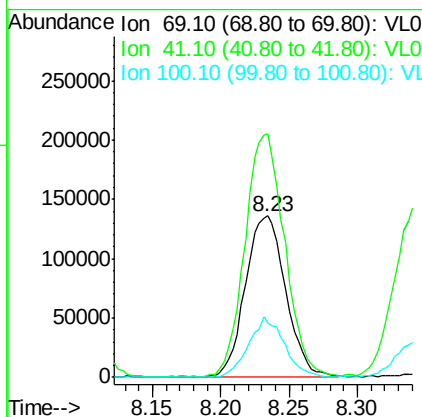
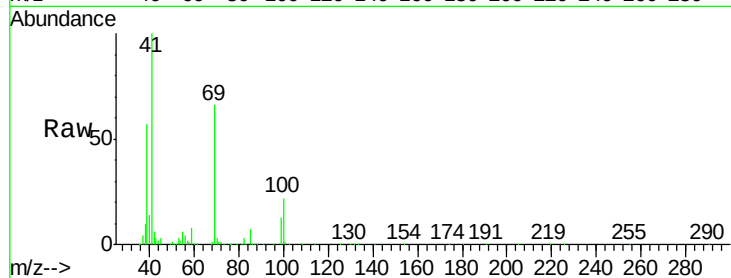
#43
Methyl Methacrylate
Concen: 1.94 ppbv
RT: 8.23 min Scan# 2223
Delta R.T. -0.01 min
Lab File: VL032146.D
Acq: 29 Jun 2018 18:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	147.4	118.2	177.4	
100	33.2	27.4	41.2	

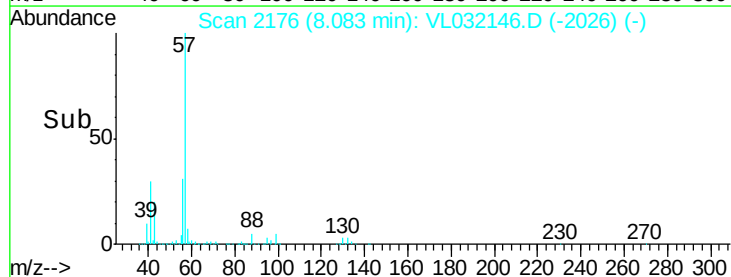
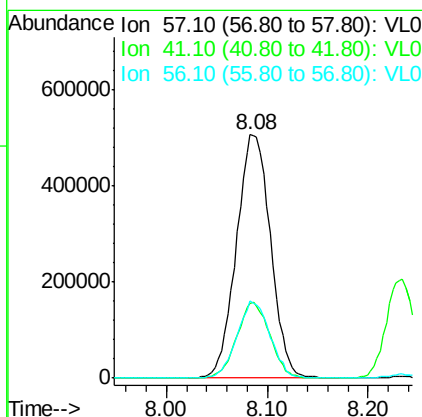
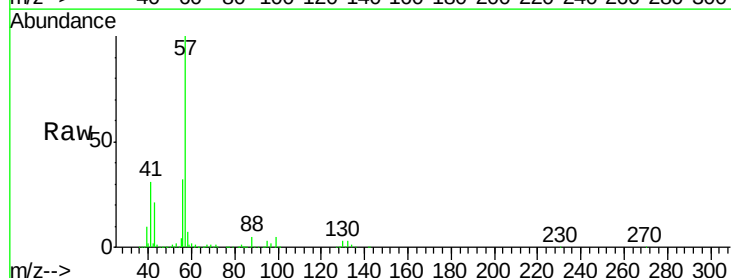
Manual Integrations
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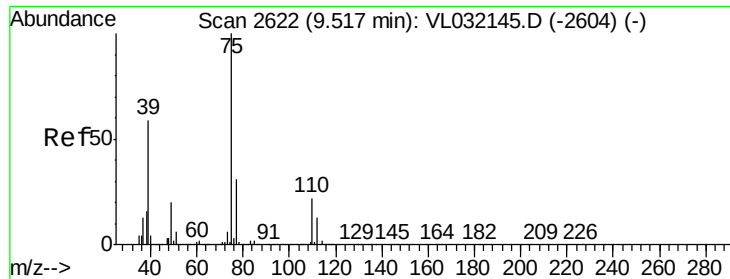
MMDadoda
7/2/2018 4:24:49 PM



#44
2,2,4-Trimethylpentane
Concen: 1.99 ppbv
RT: 8.08 min Scan# 2176
Delta R.T. -0.02 min
Lab File: VL032146.D
Acq: 29 Jun 2018 18:45

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	30.1	24.3	36.5	
56	30.7	25.1	37.7	





#45

t-1,3-Dichloropropene

Concen: 1.94 ppbv

RT: 9.52 min Scan# 2622

Delta R.T. -0.01 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 75 Resp: 345584

Ion Ratio Lower Upper

75 100

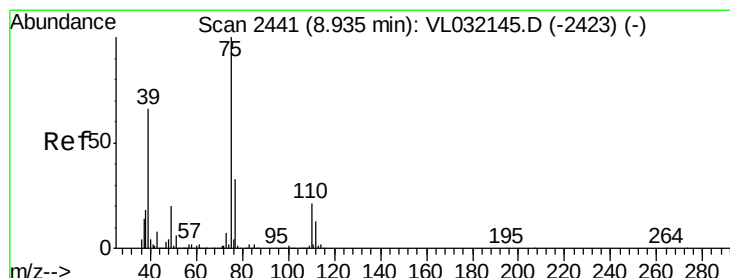
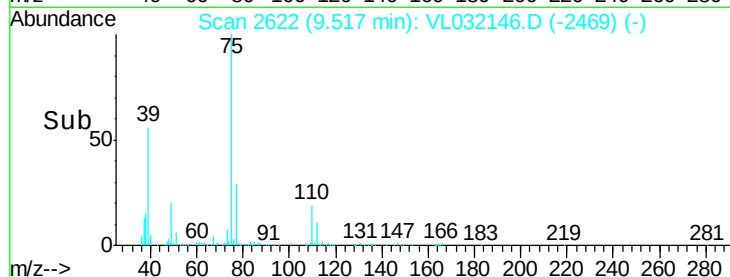
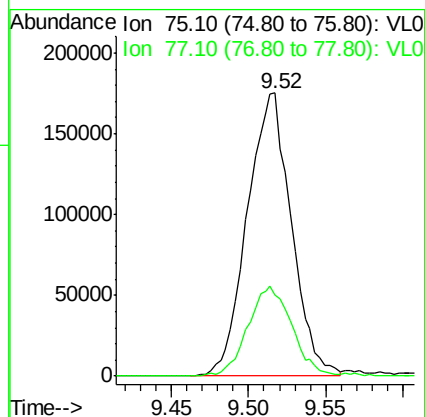
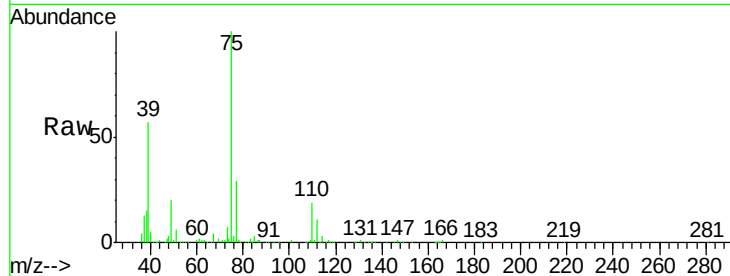
77 28.5 25.6 38.4

Manual Integrations

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#46

cis-1,3-Dichloropropene

Concen: 1.84 ppbv

RT: 8.93 min Scan# 2440

Delta R.T. -0.02 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

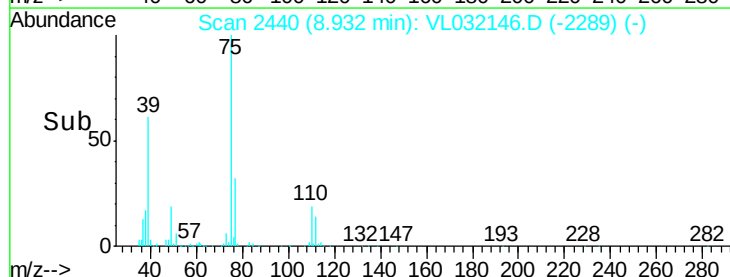
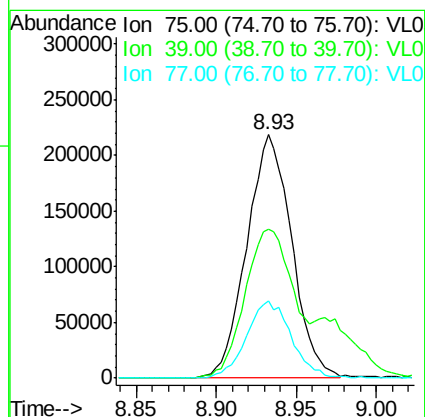
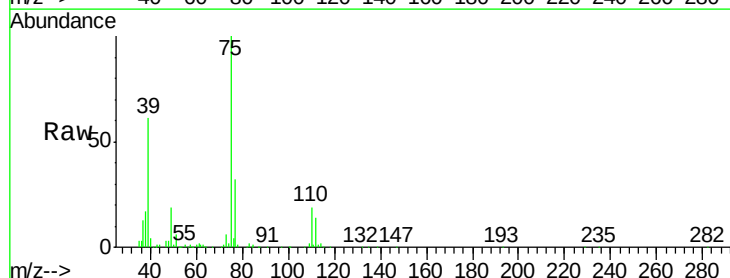
Tgt Ion: 75 Resp: 419457

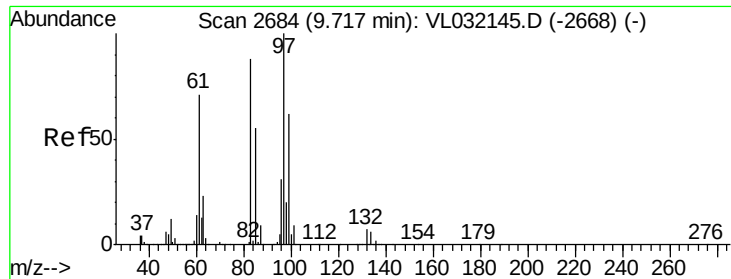
Ion Ratio Lower Upper

75 100

39 61.2 51.9 77.9

77 31.7 24.3 36.5





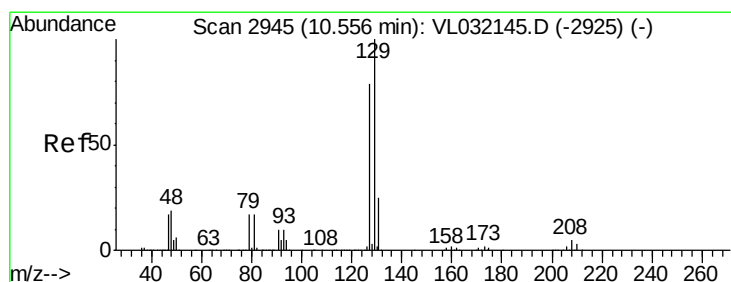
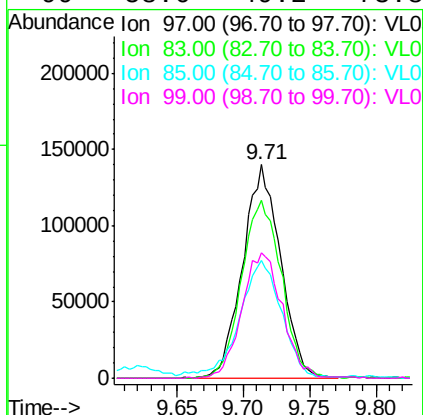
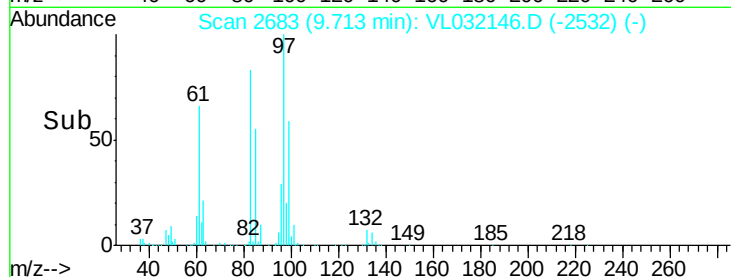
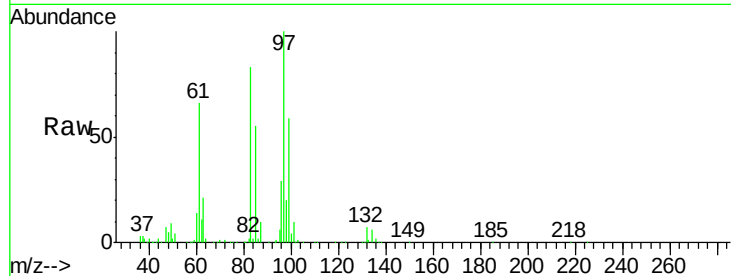
#47
 1,1,2-Trichloroethane
 Concen: 1.84 ppbv
 RT: 9.71 min Scan# 2683
 Delta R.T. -0.02 min
 Lab File: VL032146.D
 Acq: 29 Jun 2018 18:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion:	97	Resp:	278007
Ion	Ratio	Lower	Upper
97	100		
83	83.1	71.0	106.4
85	54.4	44.2	66.4
99	58.6	49.2	73.8

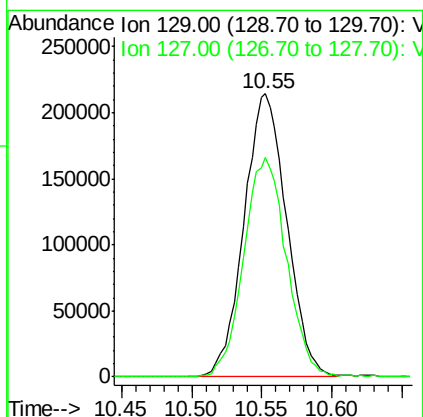
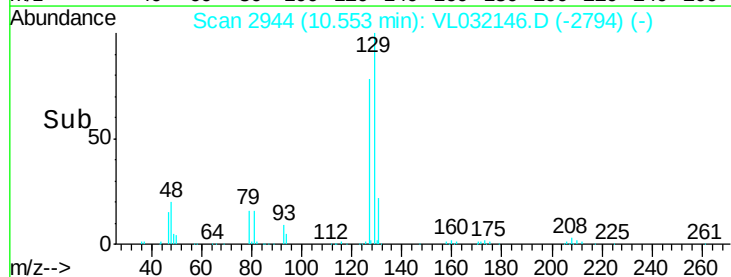
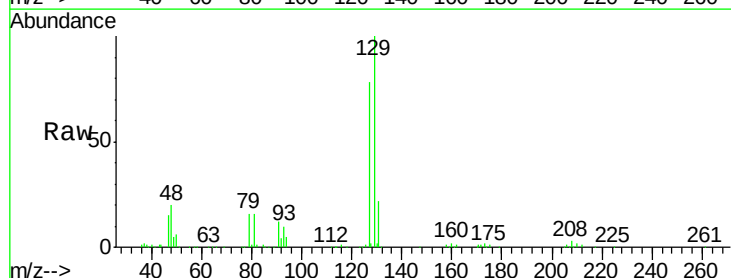
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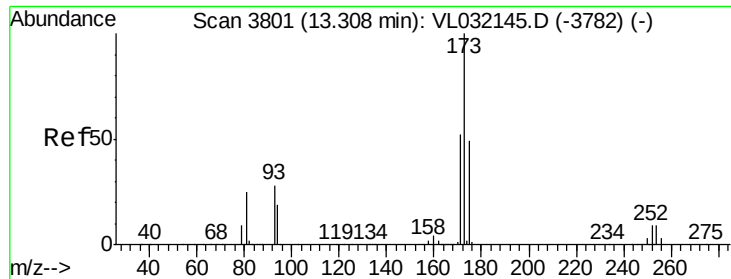
MMDadoda
 7/2/2018 4:24:49 PM



#48
 Dibromochloromethane
 Concen: 2.00 ppbv
 RT: 10.55 min Scan# 2944
 Delta R.T. -0.02 min
 Lab File: VL032146.D
 Acq: 29 Jun 2018 18:45

Tgt Ion:	129	Resp:	453813
Ion	Ratio	Lower	Upper
129	100		
127	78.0	39.1	117.5





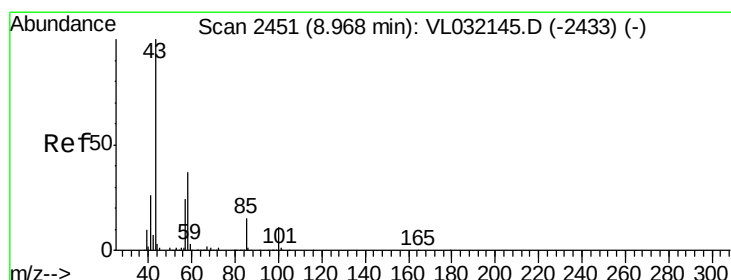
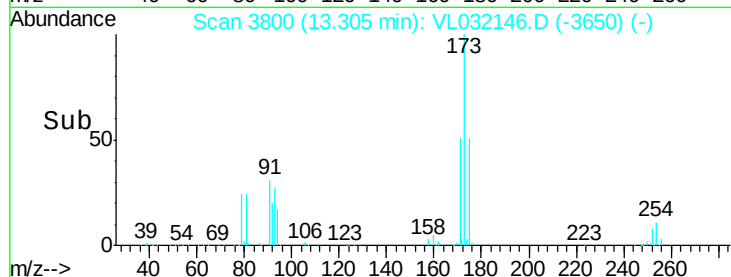
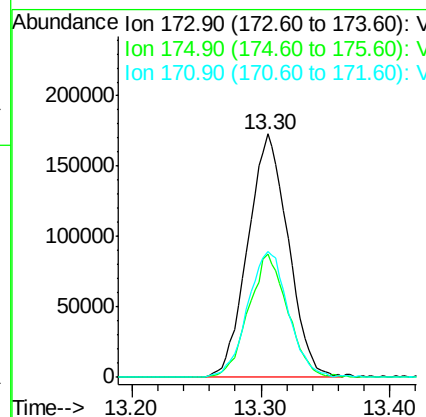
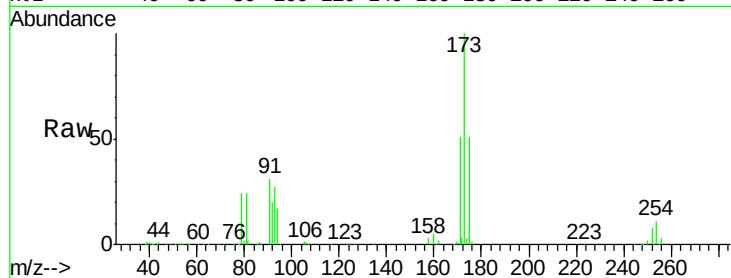
#49
Bromoform
Concen: 2.18 ppbv
RT: 13.30 min Scan# 3800
Delta R.T. -0.02 min
Lab File: VL032146.D
Acq: 29 Jun 2018 18:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.2	39.4	59.0
171	52.3	41.8	62.8

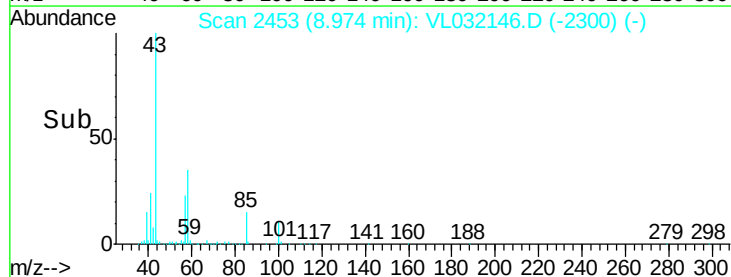
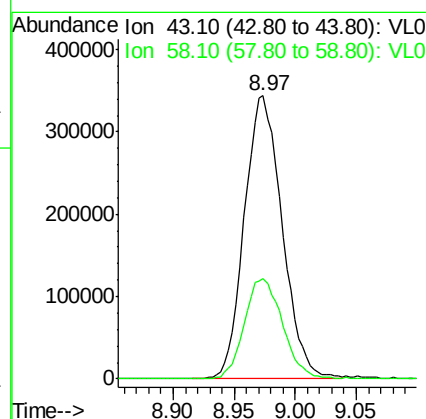
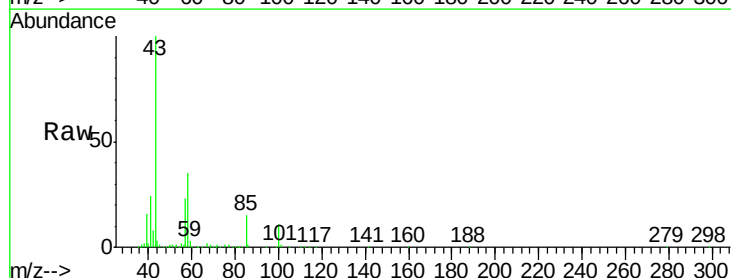
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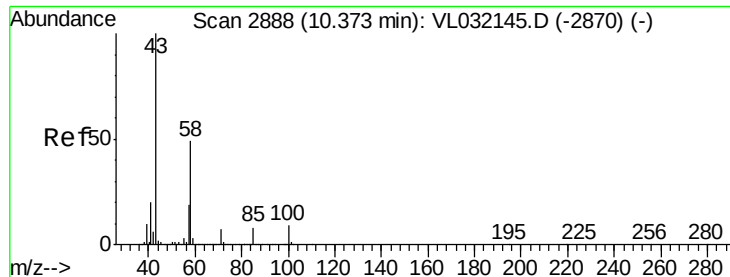
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 1.74 ppbv
RT: 8.97 min Scan# 2453
Delta R.T. -0.01 min
Lab File: VL032146.D
Acq: 29 Jun 2018 18:45

Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.0	29.8	44.6





#51

2-Hexanone

Concen: 1.51 ppbv

RT: 10.38 min Scan# 2889

Delta R.T. -0.01 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

Instrument :

MSVOA_L

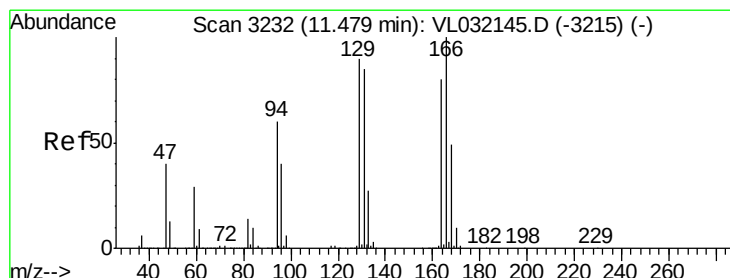
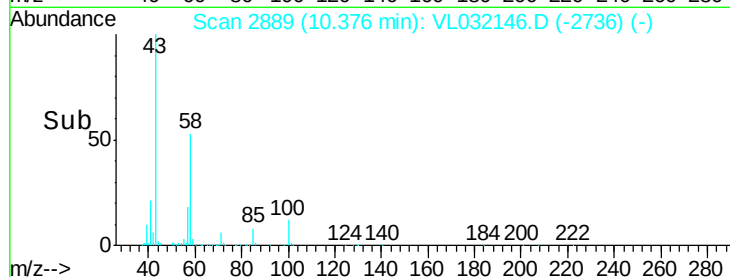
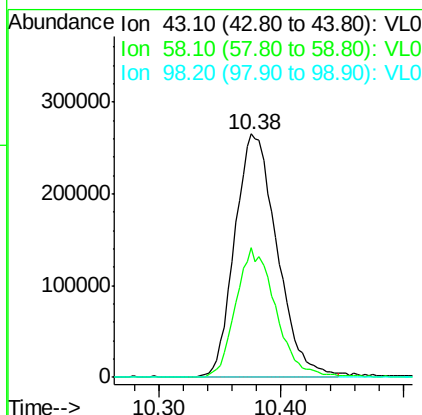
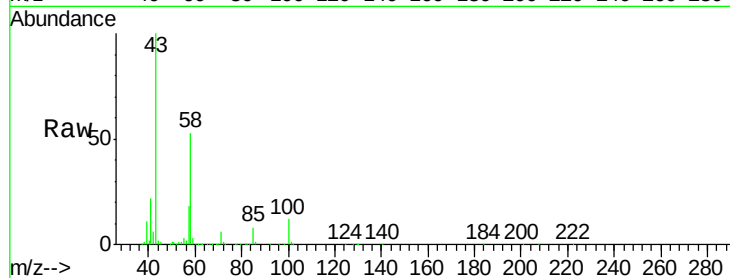
ClientSampleId :

VSTDIC002

Tot Ion:	43	Resp:	633301
Ion Ratio	Lower	Upper	
43	100		
58	50.7	40.6	60.8
98	0.1	0.1	0.1

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#52

Tetrachloroethene

Concen: 1.74 ppbv

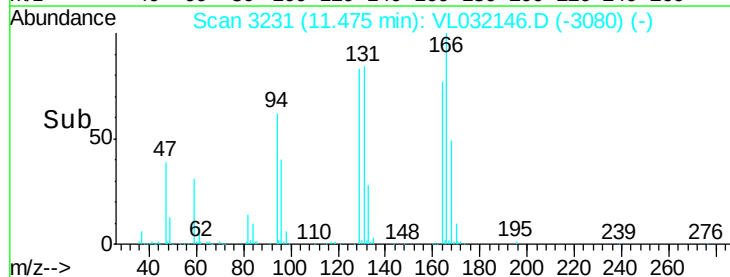
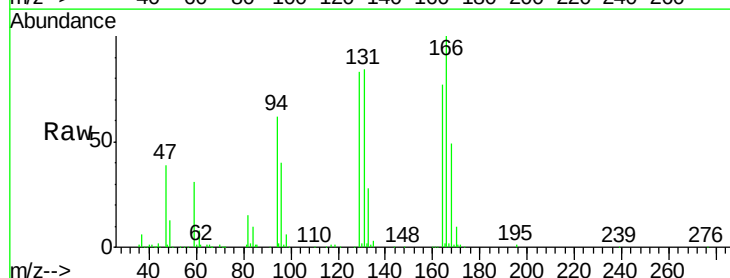
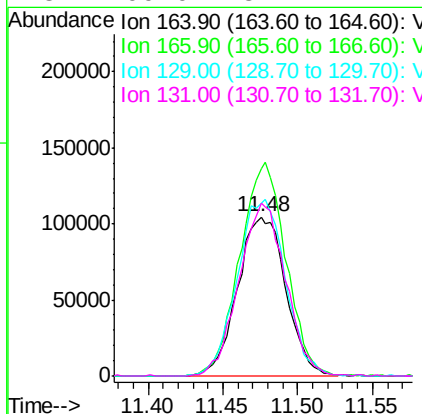
RT: 11.48 min Scan# 3231

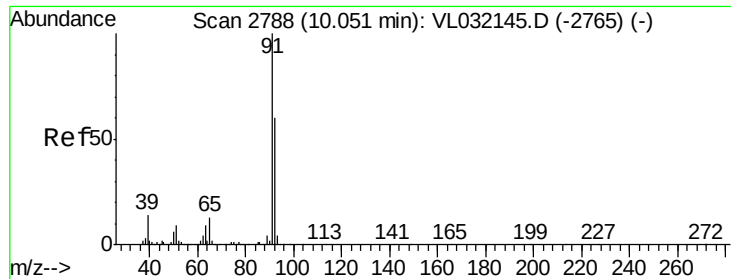
Delta R.T. -0.02 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

Tgt Ion:	164	Resp:	234393
Ion Ratio	Lower	Upper	
164	100		
166	129.5	100.6	151.0
129	107.8	84.0	126.0
131	109.0	82.7	124.1





#53

Toluene

Concen: 1.88 ppbv

RT: 10.04 min Scan# 2786

Delta R.T. -0.02 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 827636

Ion Ratio Lower Upper

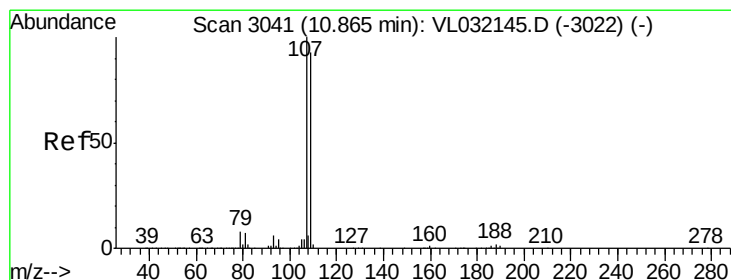
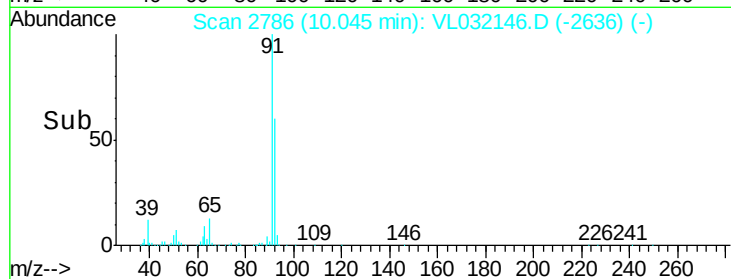
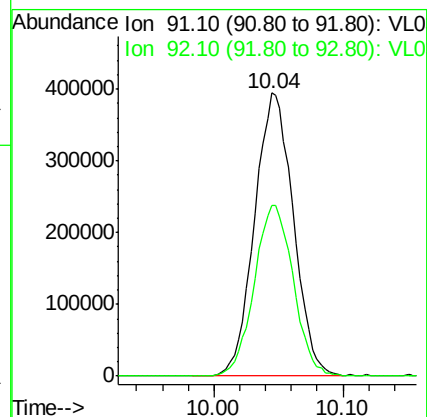
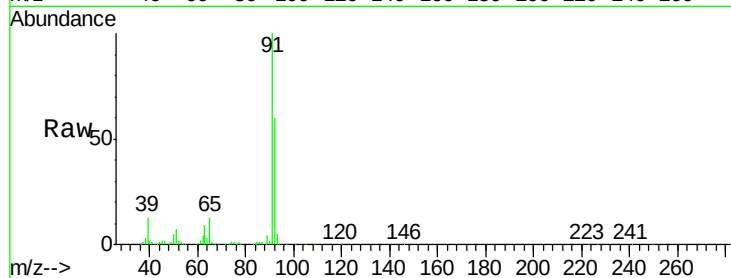
91 100

92 60.6 49.2 73.8

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#54

1,2-Dibromoethane

Concen: 1.90 ppbv

RT: 10.86 min Scan# 3040

Delta R.T. -0.02 min

Lab File: VL032146.D

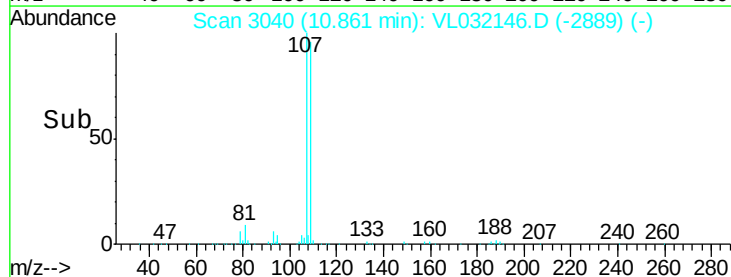
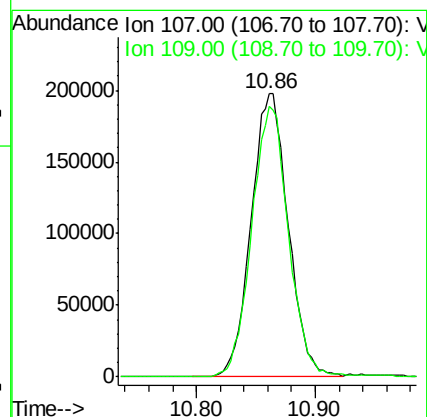
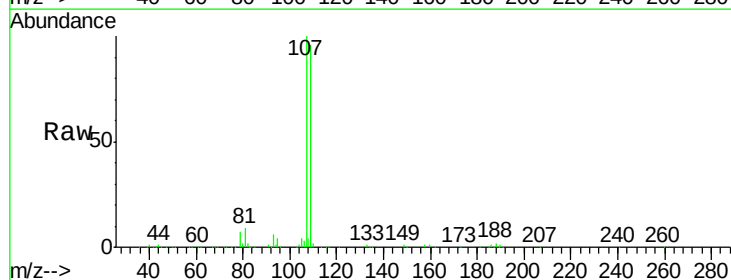
Acq: 29 Jun 2018 18:45

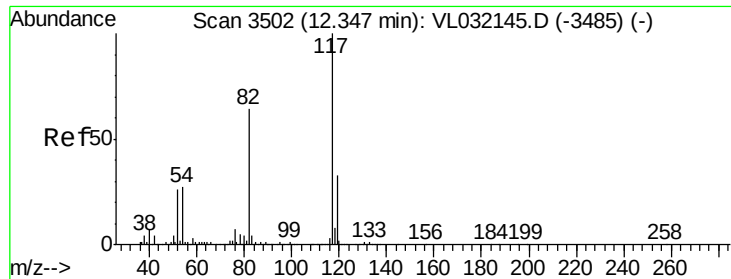
Tgt Ion: 107 Resp: 425316

Ion Ratio Lower Upper

107 100

109 95.7 75.0 112.4





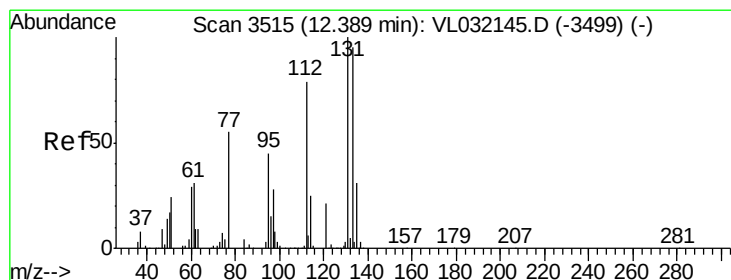
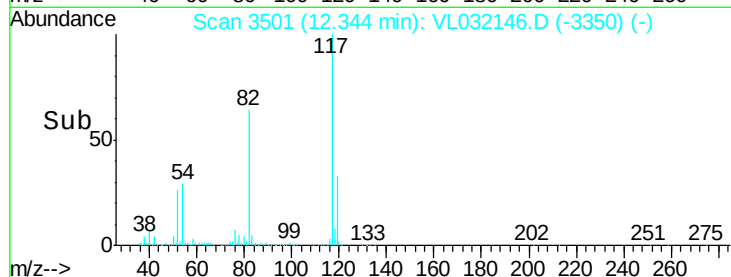
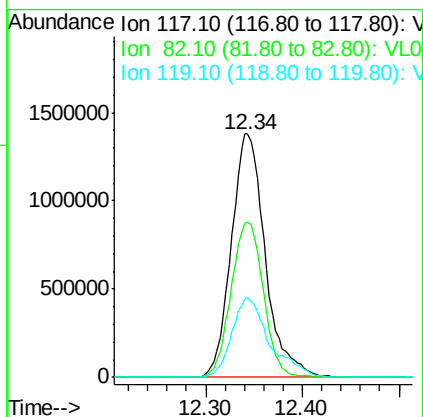
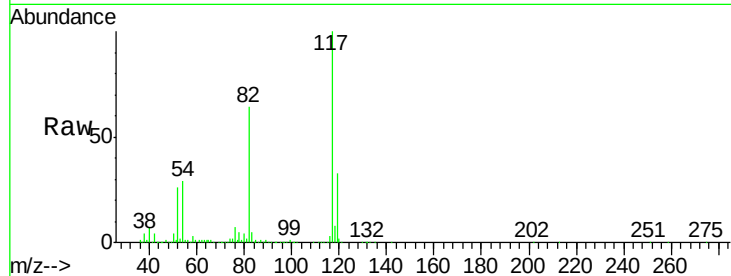
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.34 min Scan# 3501
Delta R.T. -0.02 min
Lab File: VL032146.D
Acq: 29 Jun 2018 18:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
117	100		
82	60.9	47.8	71.8
119	36.6	43.3	64.9#

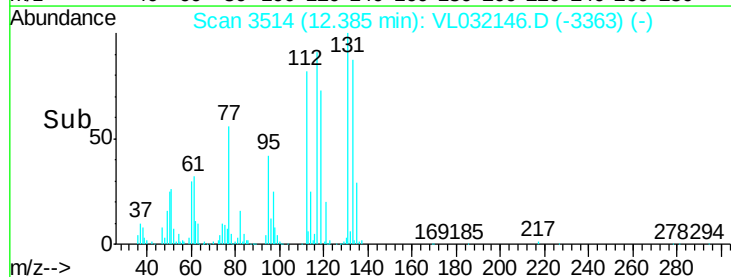
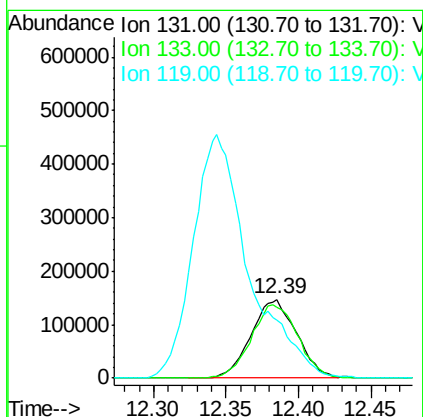
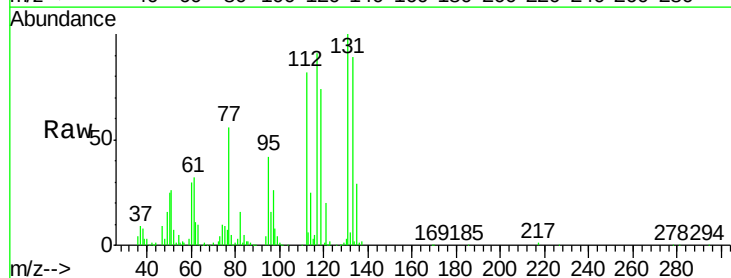
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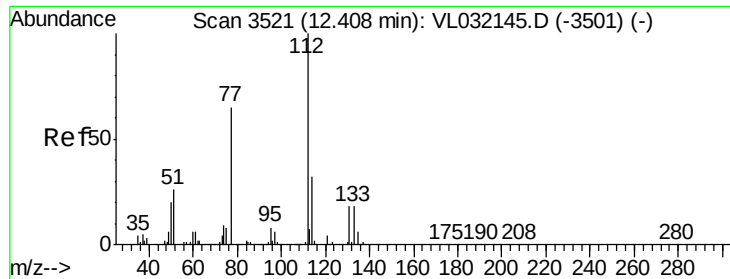
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#56
1,1,1,2-Tetrachloroethane
Concen: 2.16 ppbv
RT: 12.39 min Scan# 3514
Delta R.T. -0.02 min
Lab File: VL032146.D
Acq: 29 Jun 2018 18:45

Tgt Ion	Ratio	Lower	Upper
131	100		
133	95.7	75.5	113.3
119	380.6	118.4	177.6#





#57

Chlorobenzene

Concen: 1.94 ppbv

RT: 12.40 min Scan# 3520

Delta R.T. -0.02 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

Instrument :

MSVOA_L

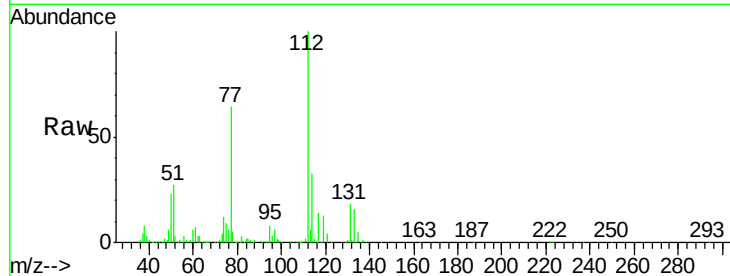
ClientSampleId :

VSTDIC002

Tot Ion:	112	Resp:	617651
Ion Ratio		Lower	Upper
112	100		
77	63.2	52.6	78.8
114	32.5	27.9	34.1

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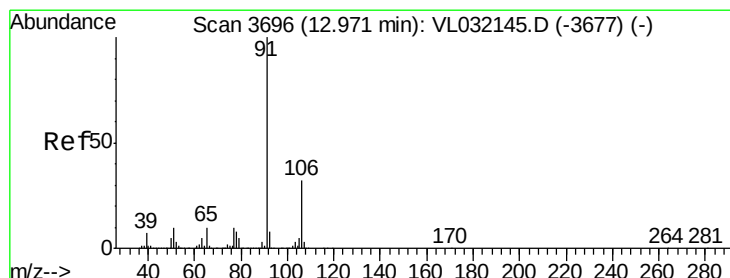
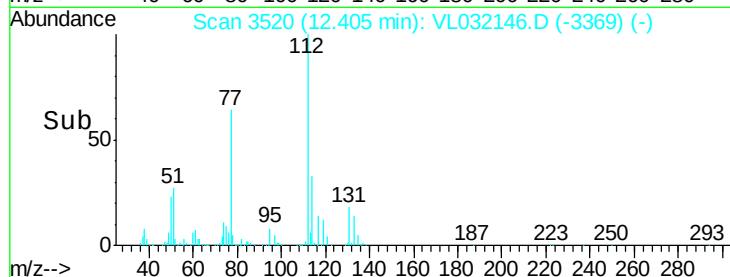
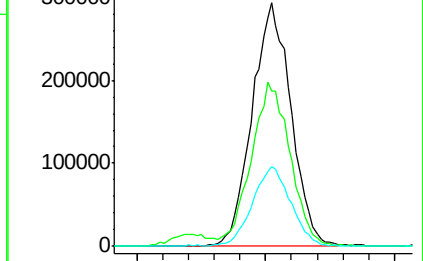
MMDadoda
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 1.92 ppbv

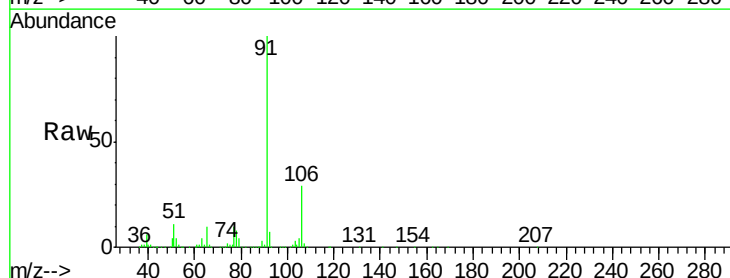
RT: 12.97 min Scan# 3695

Delta R.T. -0.02 min

Lab File: VL032146.D

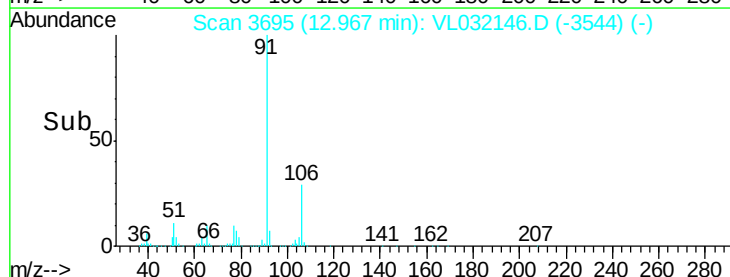
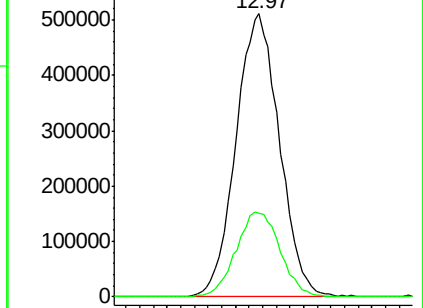
Acq: 29 Jun 2018 18:45

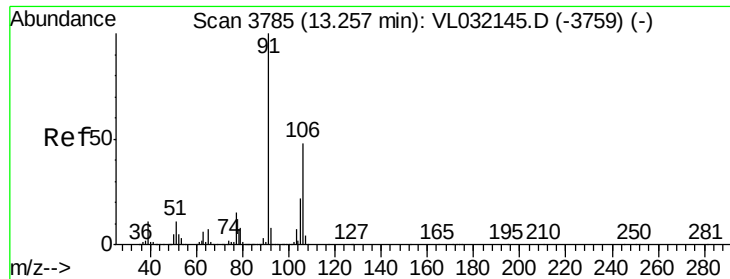
Tgt Ion:	91	Resp:	1123219
Ion Ratio		Lower	Upper
91	100		
106	29.4	26.5	39.7



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





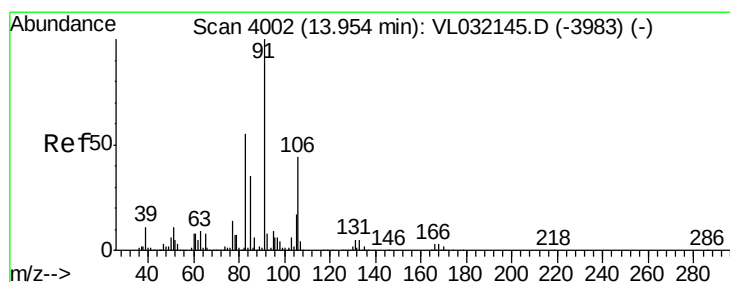
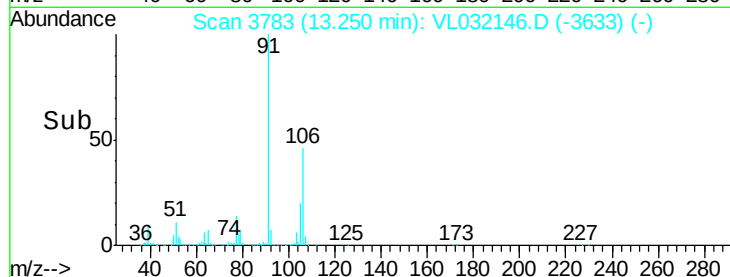
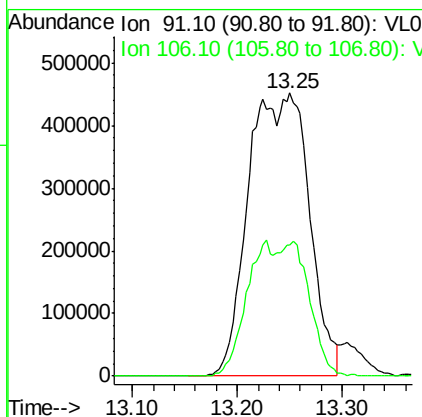
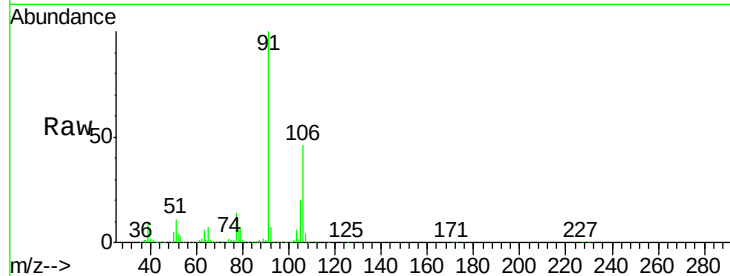
#59
m/p-Xylene
Concen: 3.92 ppbv m
RT: 13.25 min Scan# 3783
Delta R.T. -0.02 min
Lab File: VL032146.D
Acq: 29 Jun 2018 18:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion: 91 Resp: 1816162
Ion Ratio Lower Upper
91 100
106 0.0 38.6 58.0#

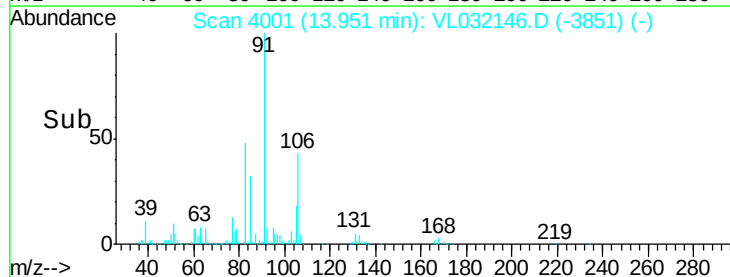
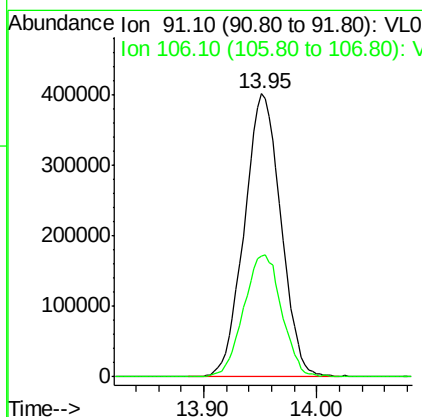
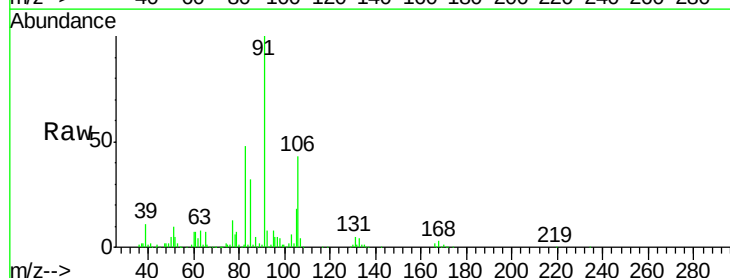
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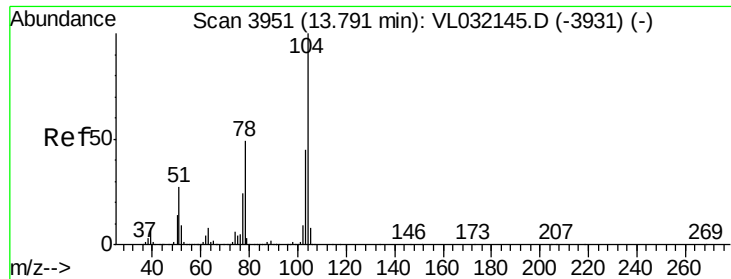
MMDadoda
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#60
o-Xylene
Concen: 1.96 ppbv
RT: 13.95 min Scan# 4001
Delta R.T. -0.02 min
Lab File: VL032146.D
Acq: 29 Jun 2018 18:45

Tgt Ion: 91 Resp: 901153
Ion Ratio Lower Upper
91 100
106 44.8 23.3 69.8





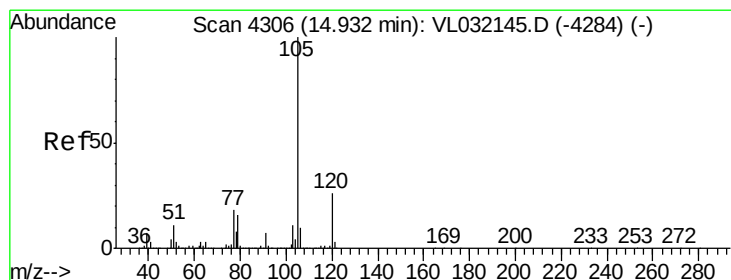
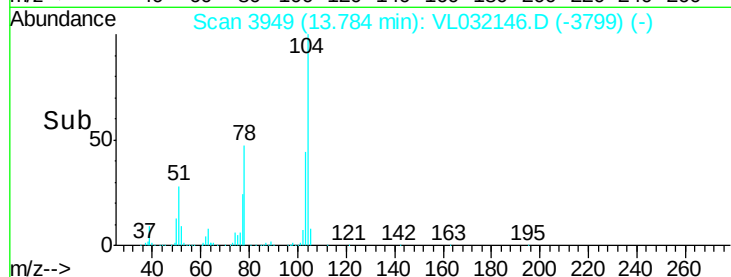
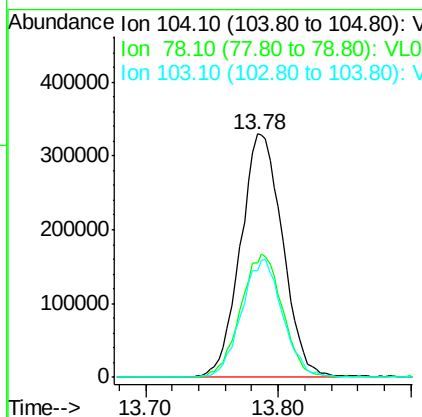
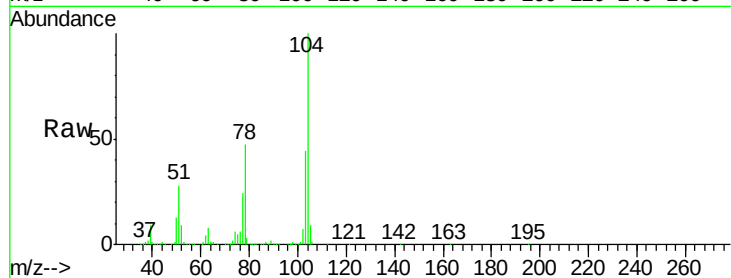
#61
Stvrene
Concen: 5.30 ppbv
RT: 13.78 min Scan# 3949
Delta R.T. -0.02 min
Lab File: VL032146.D
Acq: 29 Jun 2018 18:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
104	100		
78	50.6	37.9	56.9
103	47.5	36.6	55.0

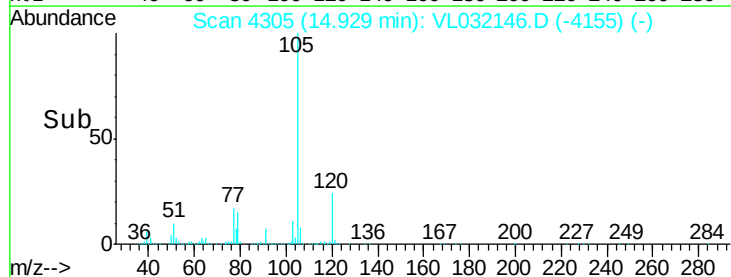
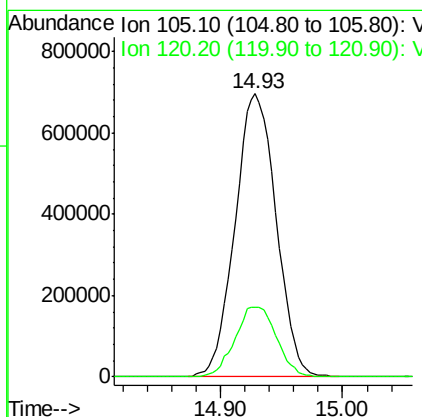
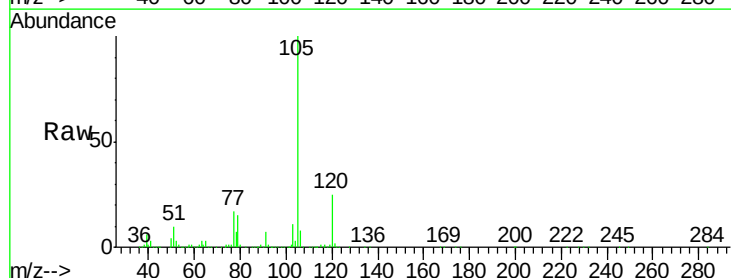
Manual Integrations
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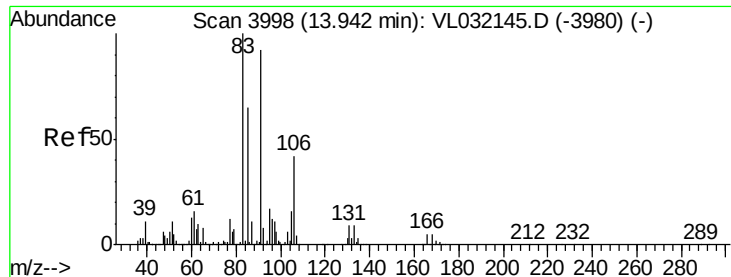
MMDadoda
7/2/2018 4:24:49 PM



#62
Isopropylbenzene
Concen: 2.64 ppbv
RT: 14.93 min Scan# 4305
Delta R.T. -0.02 min
Lab File: VL032146.D
Acq: 29 Jun 2018 18:45

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.2	21.0	31.4





#63

1,1,2,2-Tetrachloroethane

Concen: 1.78 ppbv

RT: 13.94 min Scan# 3997

Delta R.T. -0.02 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

Instrument :

MSVOA_L

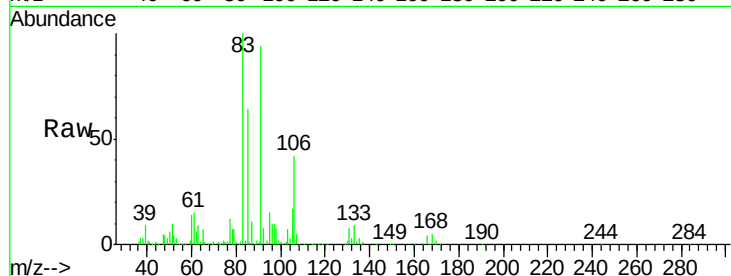
ClientSampleId :

VSTDIC002

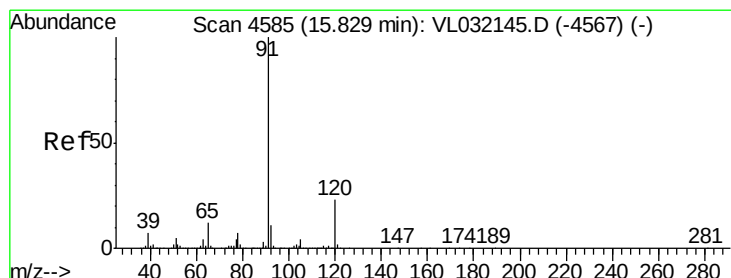
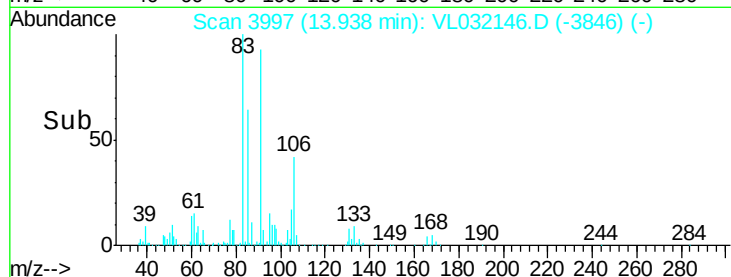
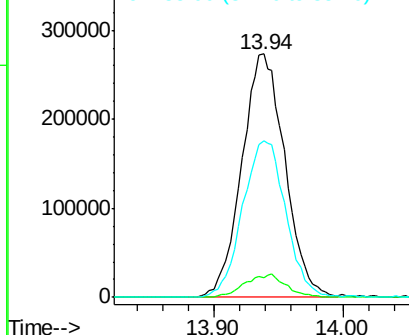
Tot Ion:	83	Resp:	633216
Ion Ratio	Lower	Upper	
83	100		
131	9.1	4.6	13.8
85	65.3	32.4	97.2

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



#64

n-propylbenzene

Concen: 2.74 ppbv

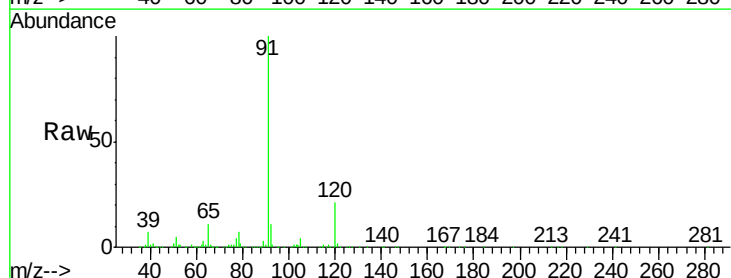
RT: 15.83 min Scan# 4584

Delta R.T. -0.02 min

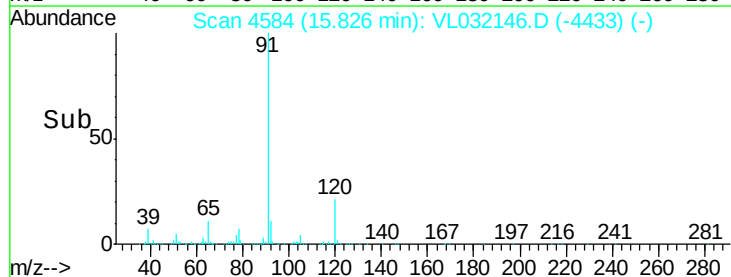
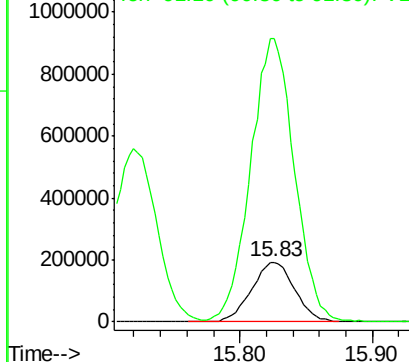
Lab File: VL032146.D

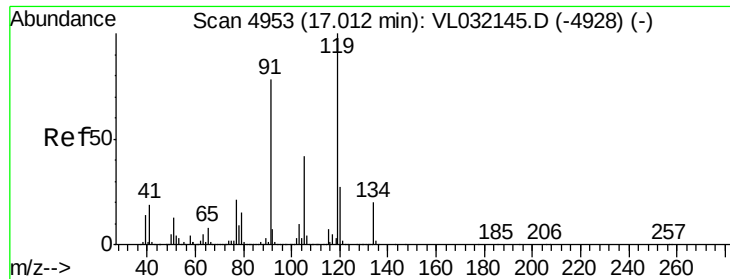
Acq: 29 Jun 2018 18:45

Tgt Ion:	120	Resp:	437659
Ion Ratio	Lower	Upper	
120	100		
91	480.7	357.4	536.0



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





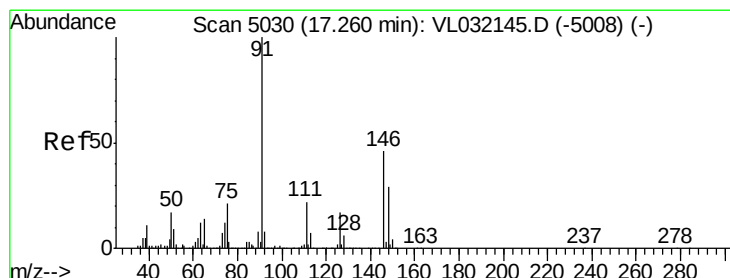
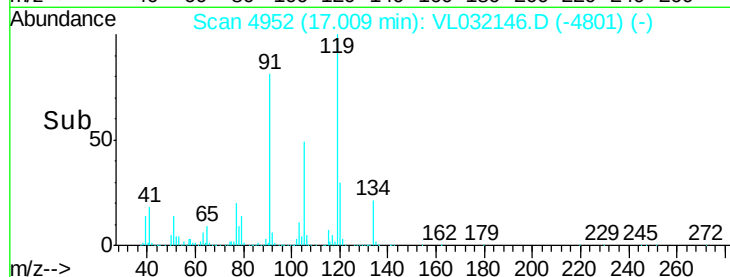
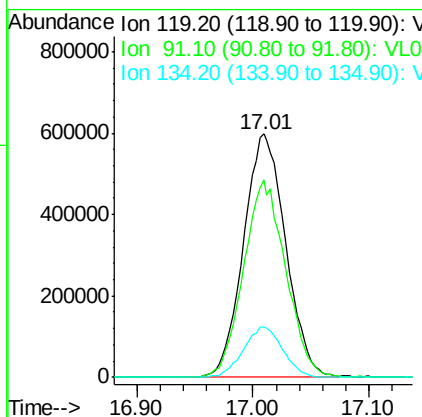
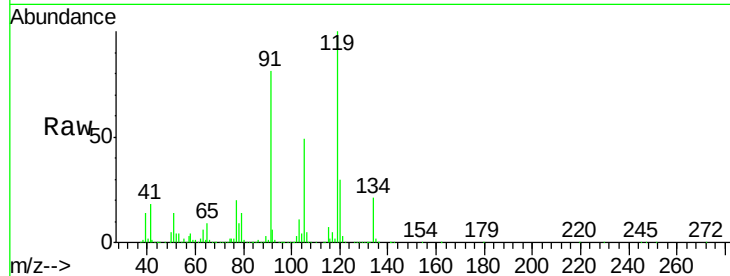
#65
tert-Butylbenzene
Concen: 2.80 ppbv
RT: 17.01 min Scan# 4952
Delta R.T. -0.02 min
Lab File: VL032146.D
Acq: 29 Jun 2018 18:45

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tot Ion	Ratio	Lower	Upper
119	100		
91	81.5	62.2	93.2
134	19.4	16.2	24.2

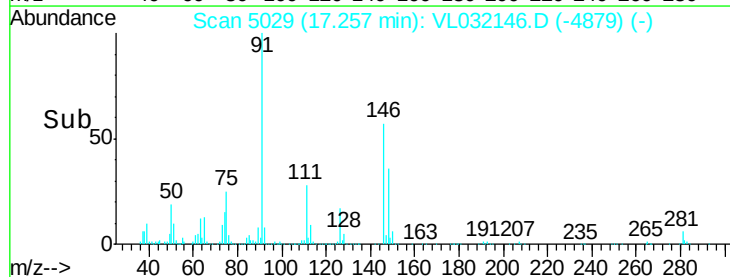
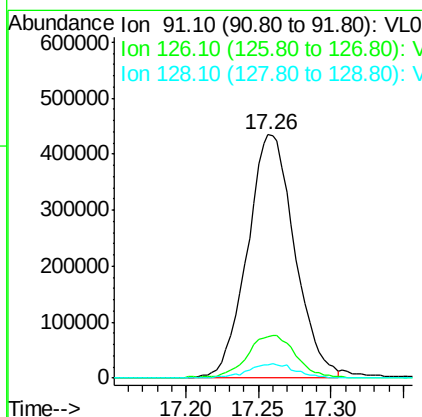
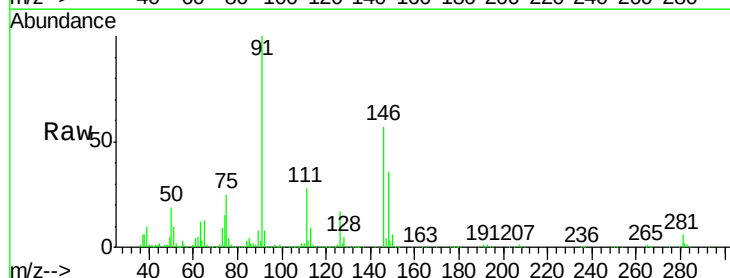
Manual Integrations
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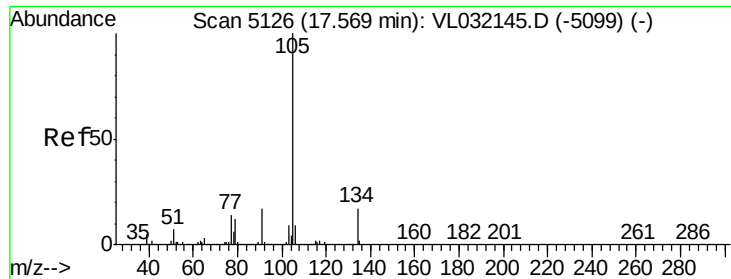
MMDadoda
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#66
Benzyl Chloride
Concen: 14.31 ppbv
RT: 17.26 min Scan# 5029
Delta R.T. -0.02 min
Lab File: VL032146.D
Acq: 29 Jun 2018 18:45

Tgt Ion	Ratio	Lower	Upper
91	100		
126	18.6	15.7	23.5
128	6.0	5.2	7.8





#67

sec-Butylbenzene

Concen: 2.79 ppbv

RT: 17.56 min Scan# 5124

Delta R.T. -0.02 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:105 Resp: 2193607

Ion Ratio Lower Upper

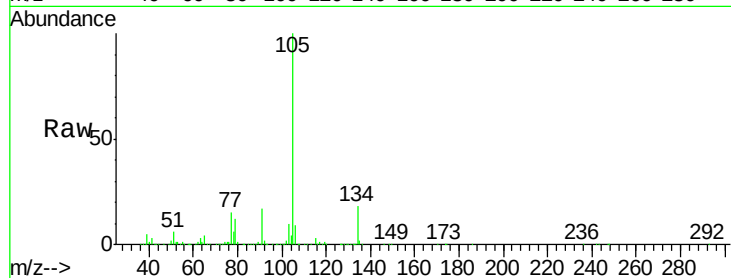
105 100

134 17.6 14.7 22.1

Manual Integrations
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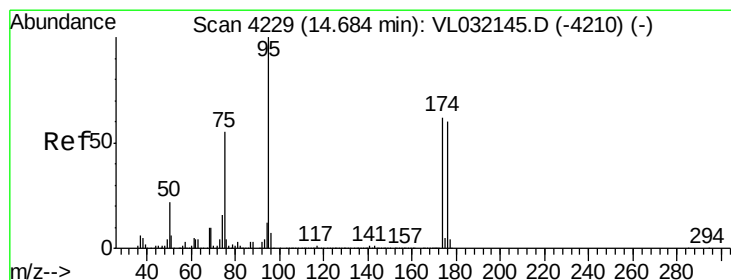
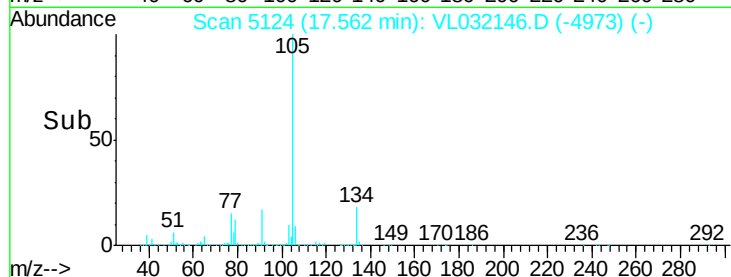
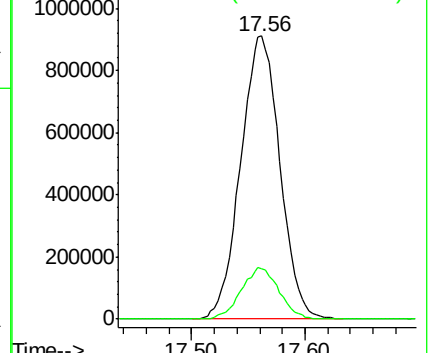
MMDadoda

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 11.50 ppbv

RT: 14.68 min Scan# 4227

Delta R.T. -0.02 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

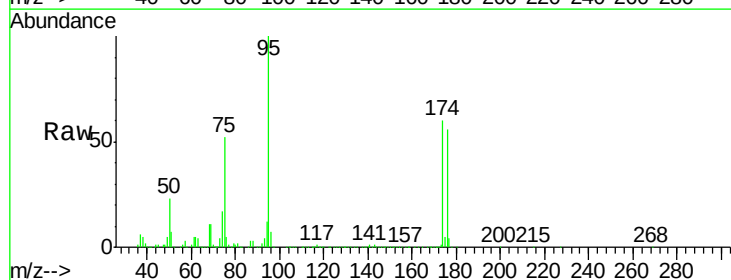
Tgt Ion: 95 Resp: 2870677

Ion Ratio Lower Upper

95 100

174 60.1 52.1 78.1

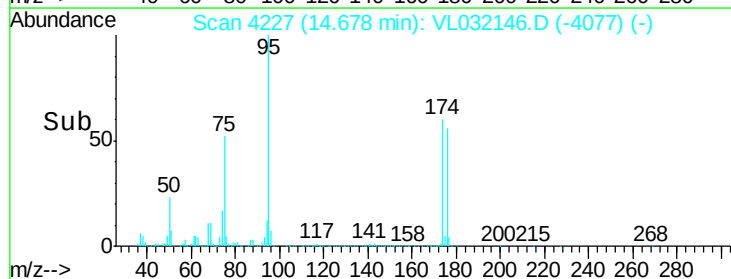
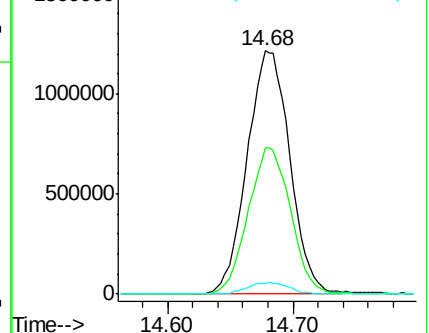
175 4.7 4.0 6.0

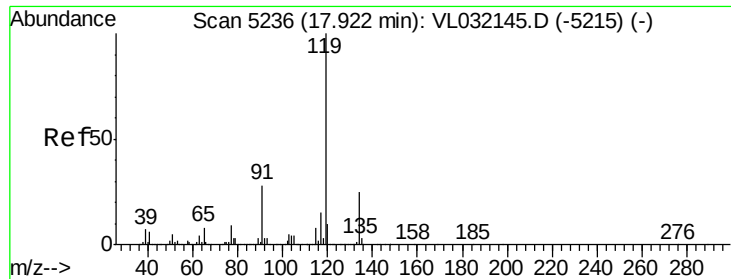


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





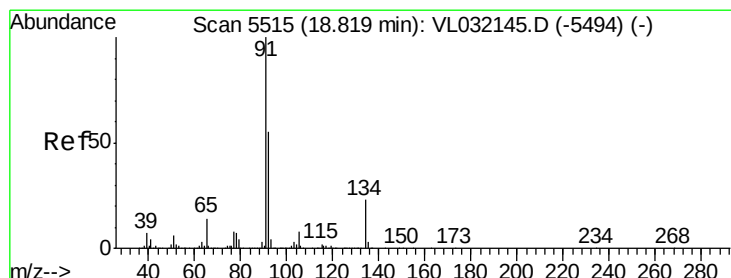
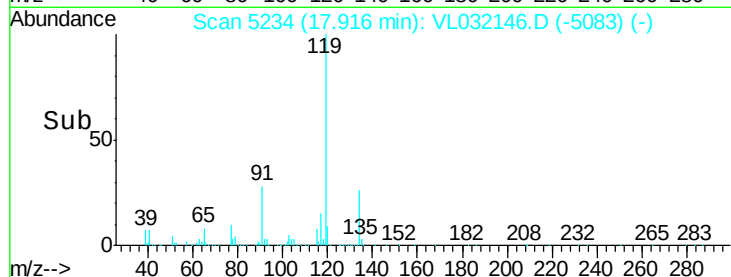
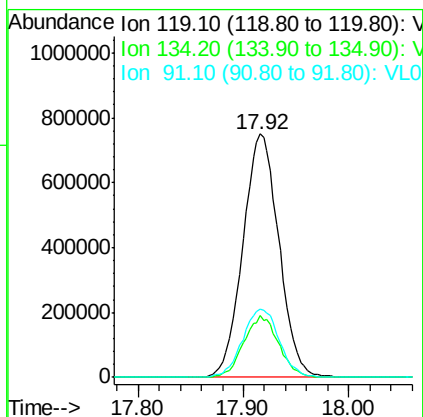
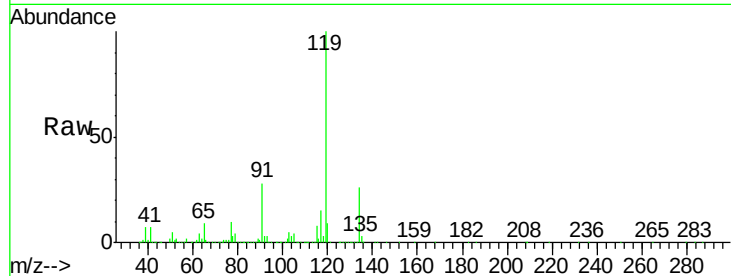
#69
 p-Isopropyltoluene
 Concen: 2.76 ppbv
 RT: 17.92 min Scan# 5234
 Delta R.T. -0.02 min
 Lab File: VL032146.D
 Acq: 29 Jun 2018 18:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.5	20.7	31.1
91	28.8	21.8	32.8

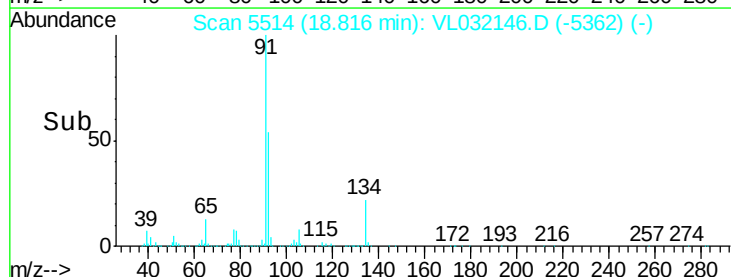
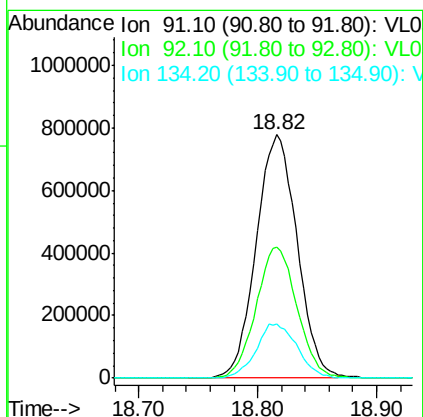
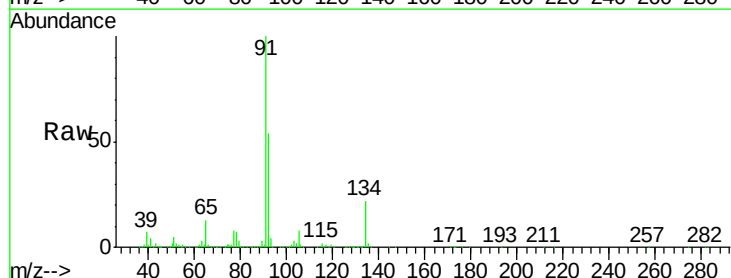
Manual Integrations
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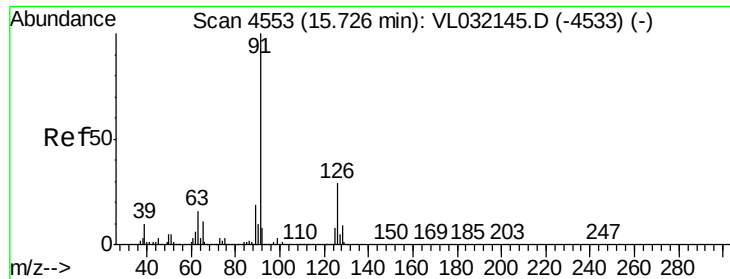
MMDadoda
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#70
 n-Butylbenzene
 Concen: 2.72 ppbv
 RT: 18.82 min Scan# 5514
 Delta R.T. -0.01 min
 Lab File: VL032146.D
 Acq: 29 Jun 2018 18:45

Tgt Ion	Ratio	Lower	Upper
91	100		
92	54.1	43.7	65.5
134	22.7	18.9	28.3





#71

2-Chlorotoluene

Concen: 2.75 ppbv

RT: 15.72 min Scan# 4551

Delta R.T. -0.02 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion: 91 Resp: 1290938

Ion Ratio Lower Upper

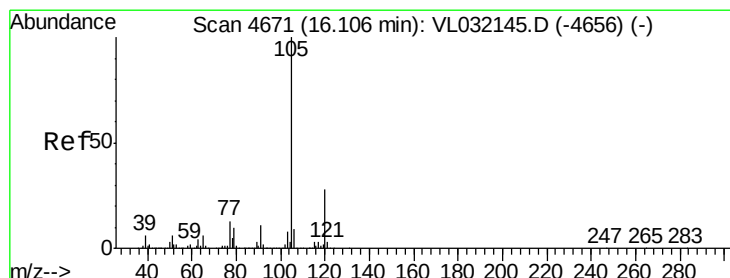
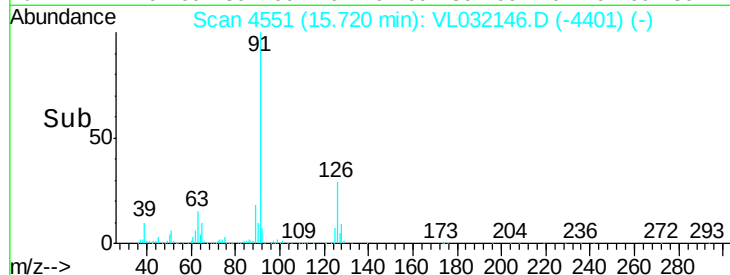
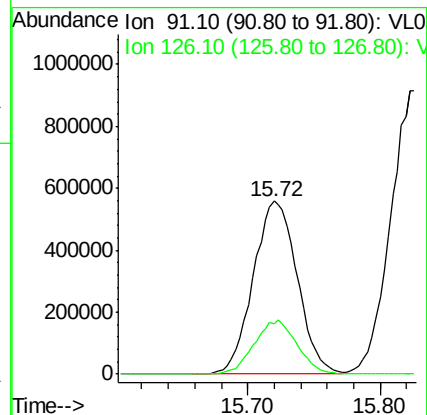
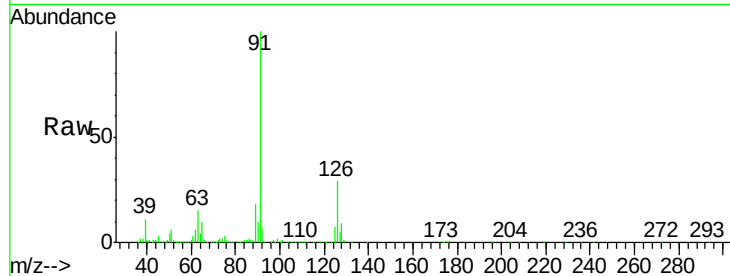
91 100

126 30.5 12.8 51.0

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#72

4-Ethyltoluene

Concen: 2.72 ppbv

RT: 16.10 min Scan# 4670

Delta R.T. -0.02 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

Tgt Ion: 105 Resp: 1411347

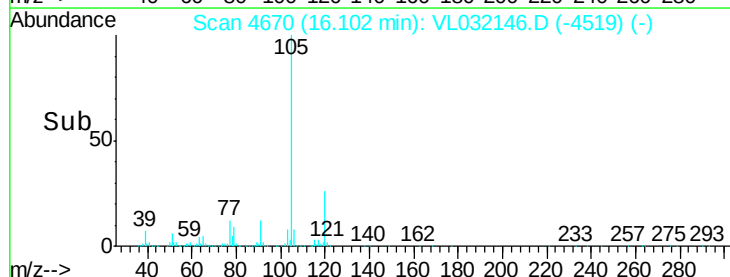
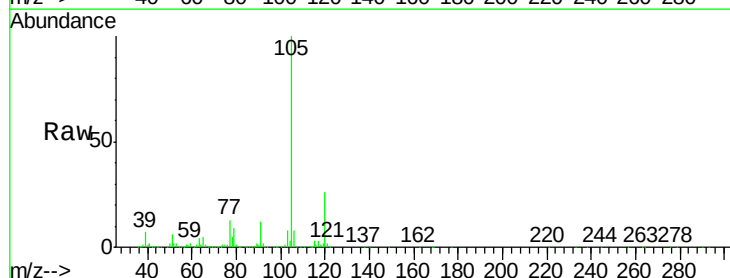
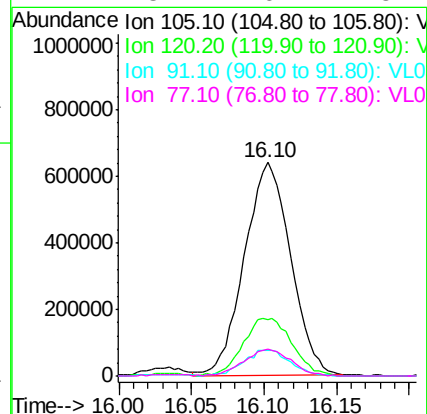
Ion Ratio Lower Upper

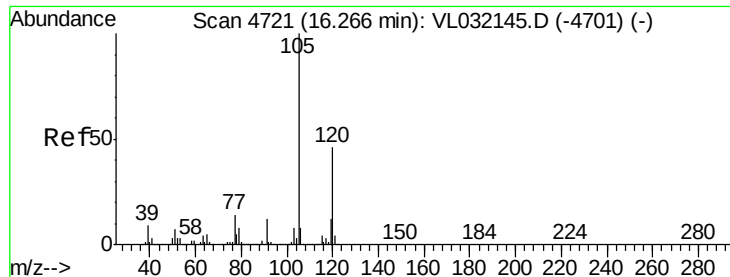
105 100

120 28.9 24.3 36.5

91 11.9 9.4 14.0

77 13.1 10.2 15.2





#73

1,3,5-Trimethylbenzene

Concen: 2.84 ppbv

RT: 16.26 min Scan# 4720

Delta R.T. -0.02 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:105 Resp: 1319504

Ion Ratio Lower Upper

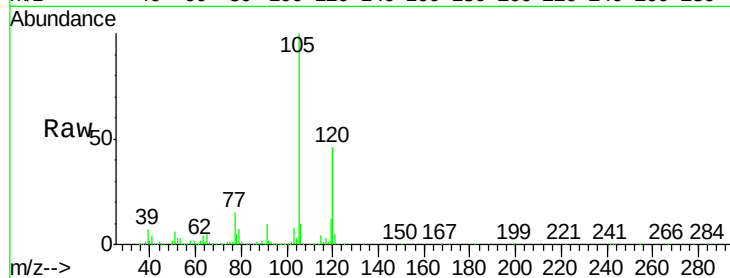
105 100

120 46.0 38.6 57.8

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.26

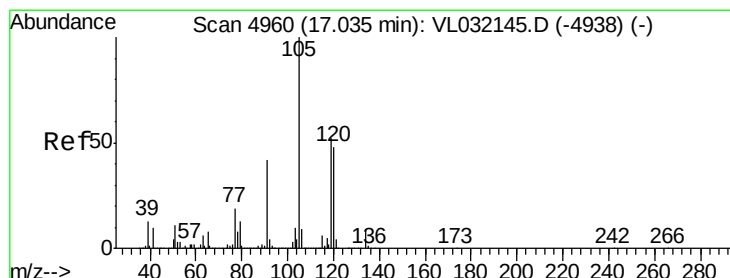
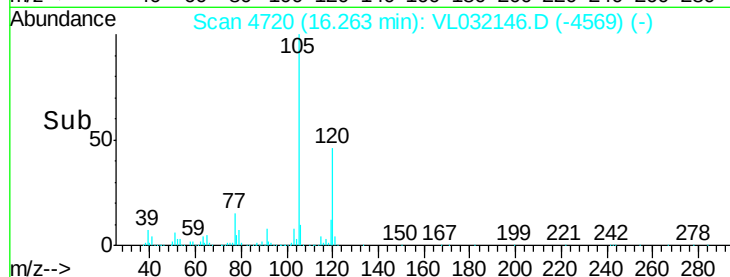
600000

400000

200000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 2.73 ppbv

RT: 17.03 min Scan# 4957

Delta R.T. -0.02 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

Tgt Ion:105 Resp: 1349915

Ion Ratio Lower Upper

105 100

120 43.5 38.8 58.2

91 53.7 33.6 50.4#

77 21.2 16.0 24.0

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

800000

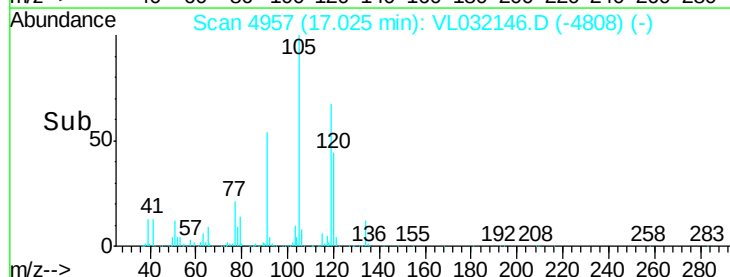
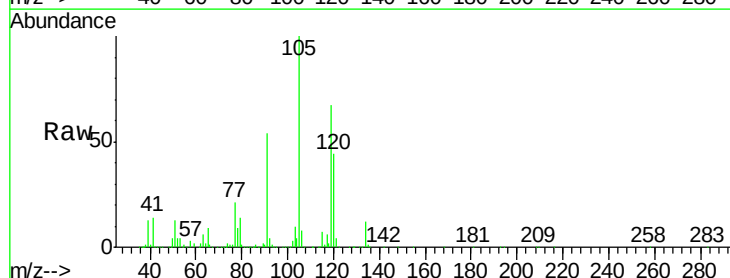
600000

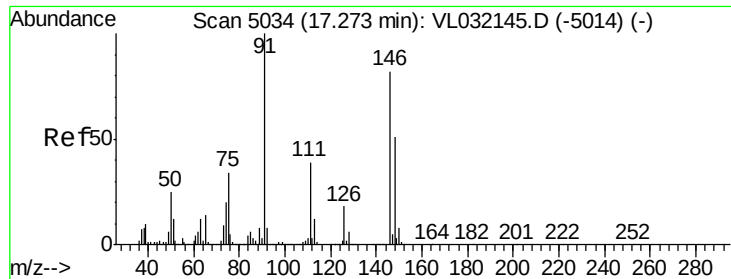
400000

200000

0

Time-->





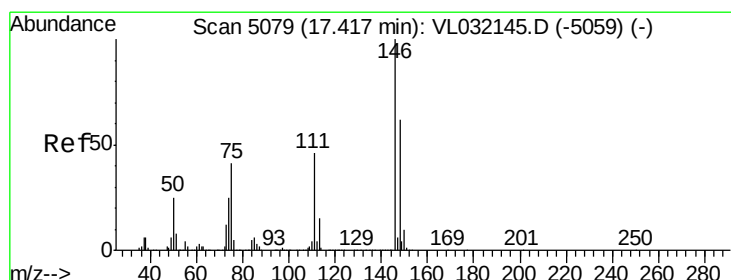
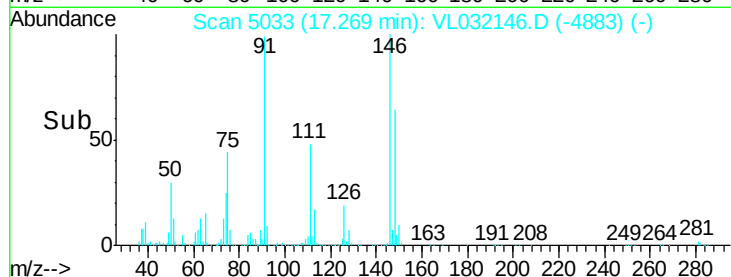
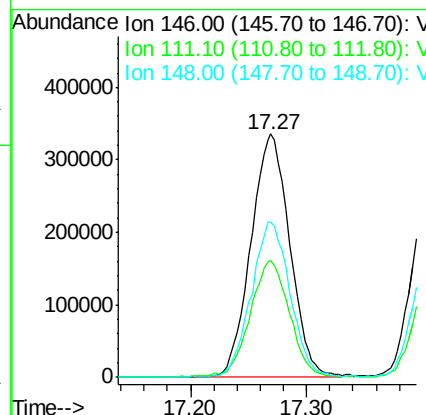
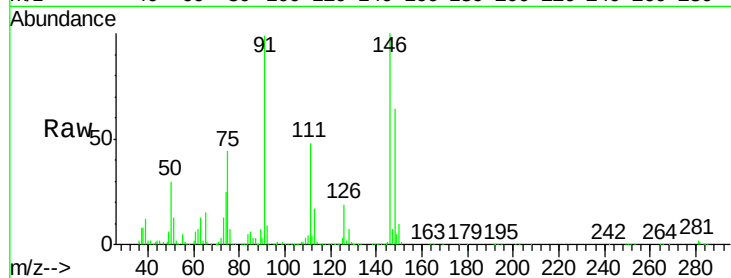
#75
 1,3-Dichlorobenzene
 Concen: 2.60 ppbv
 RT: 17.27 min Scan# 5033
 Delta R.T. -0.02 min
 Lab File: VL032146.D
 Acq: 29 Jun 2018 18:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.8	22.9	68.8
148	64.2	31.7	95.1

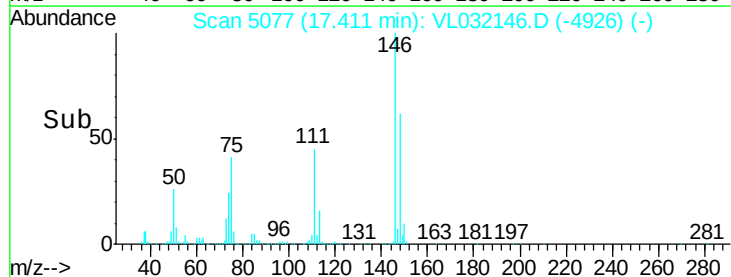
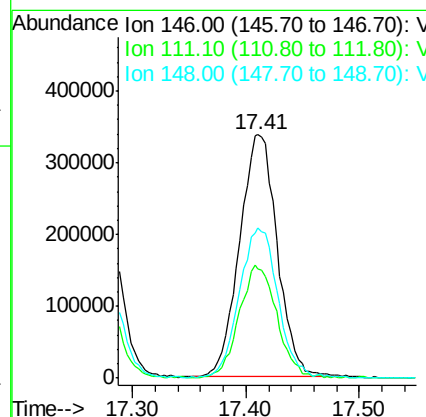
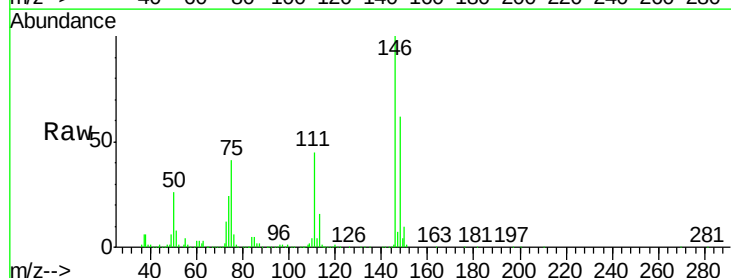
Manual Integrations
 APPROVED

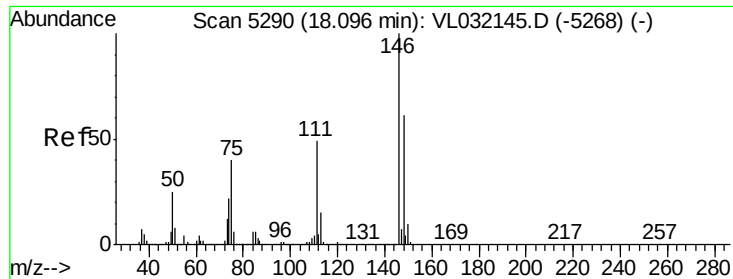
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#76
 1,4-Dichlorobenzene
 Concen: 2.55 ppbv
 RT: 17.41 min Scan# 5077
 Delta R.T. -0.02 min
 Lab File: VL032146.D
 Acq: 29 Jun 2018 18:45

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.1	21.9	65.8
148	63.8	32.1	96.5





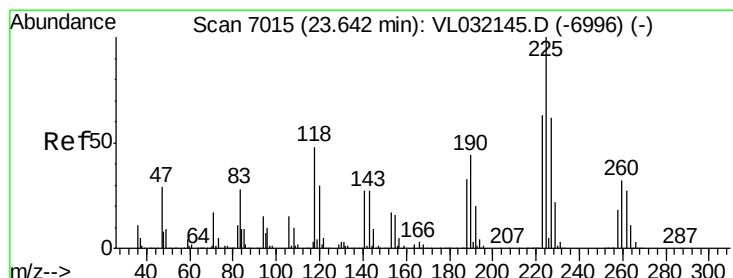
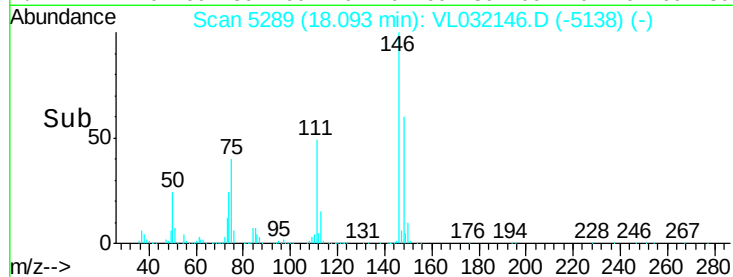
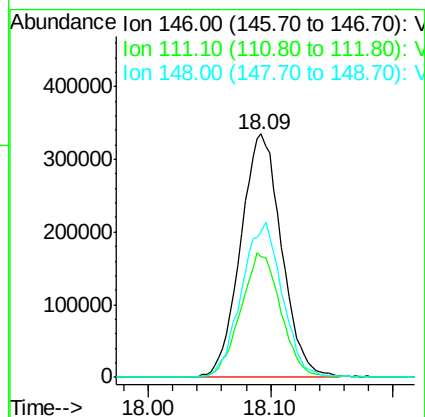
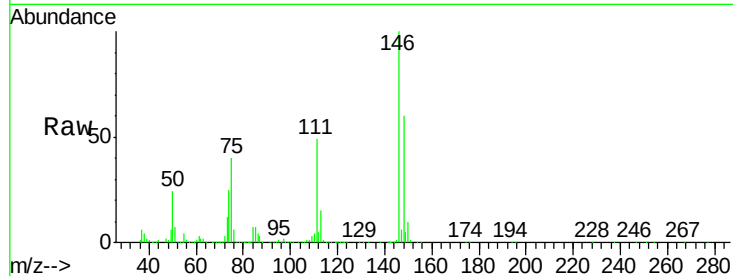
#77
 1,2-Dichlorobenzene
 Concen: 2.46 ppbv
 RT: 18.09 min Scan# 5289
 Delta R.T. -0.02 min
 Lab File: VL032146.D
 Acq: 29 Jun 2018 18:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.5	23.4	70.3
148	63.9	32.0	96.0

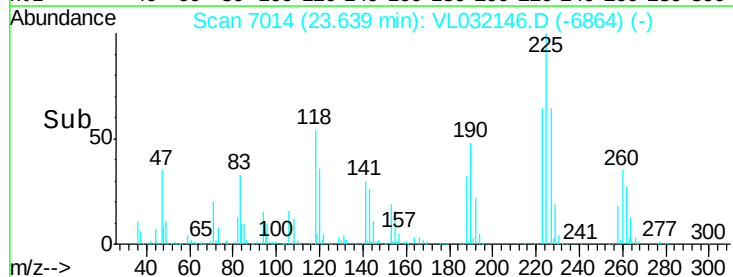
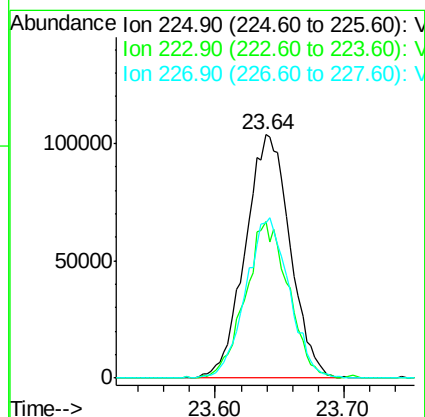
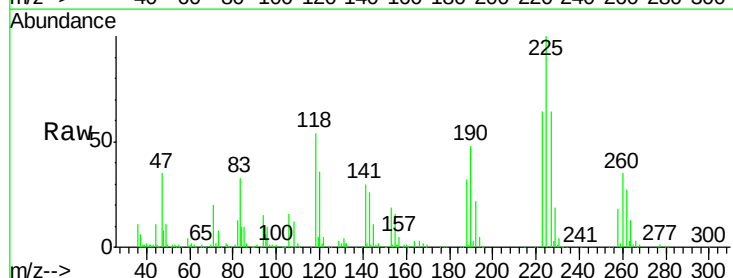
Manual Integrations
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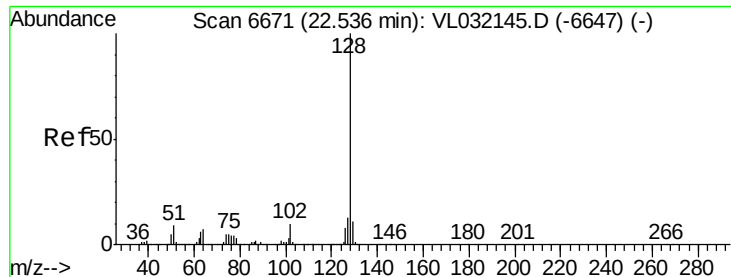
MMDadoda
 7/2/2018 4:24:49 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 2.93 ppbv
 RT: 23.64 min Scan# 7014
 Delta R.T. -0.02 min
 Lab File: VL032146.D
 Acq: 29 Jun 2018 18:45

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.2	51.0	76.4
227	63.6	51.4	77.0





#79

Naphthalene

Concen: 2.33 ppbv

RT: 22.53 min Scan# 6670

Delta R.T. -0.02 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tot Ion:128 Resp: 1200643

Ion Ratio Lower Upper

128 100

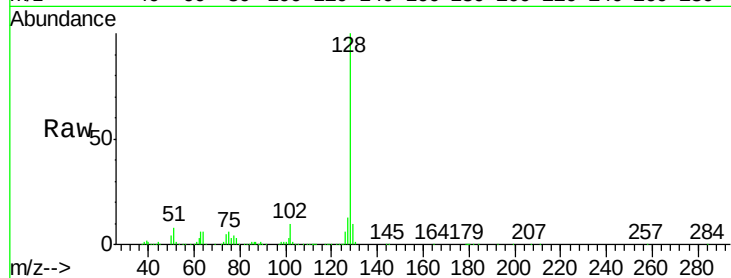
127 12.6 10.5 15.7

129 10.2 9.0 13.6

Manual Integrations
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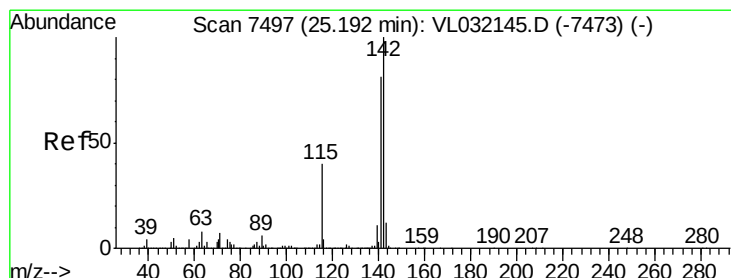
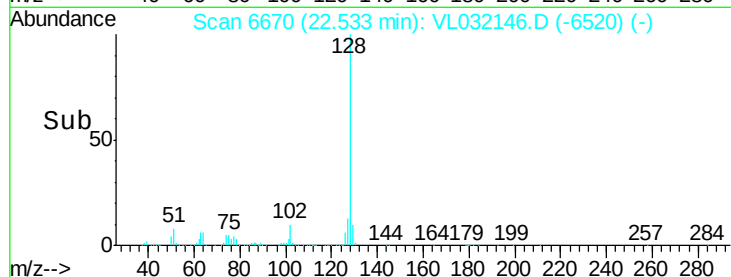
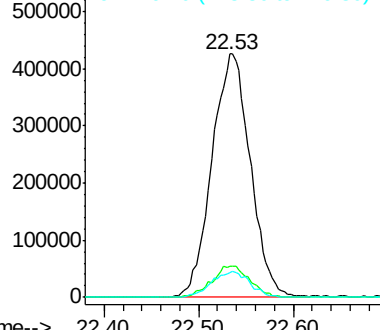
7/2/2018 4:24:49 PM



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 1.15 ppbv

RT: 25.19 min Scan# 7497

Delta R.T. -0.01 min

Lab File: VL032146.D

Acq: 29 Jun 2018 18:45

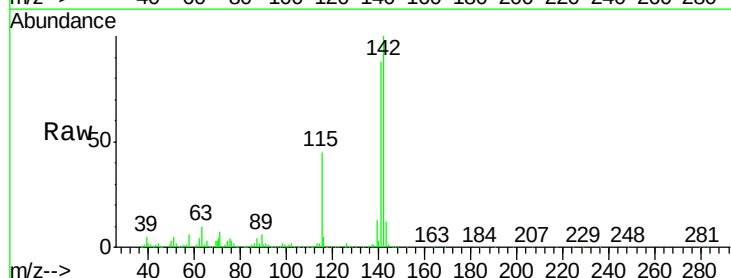
Tgt Ion:142 Resp: 354475

Ion Ratio Lower Upper

142 100

141 84.1 65.8 98.6

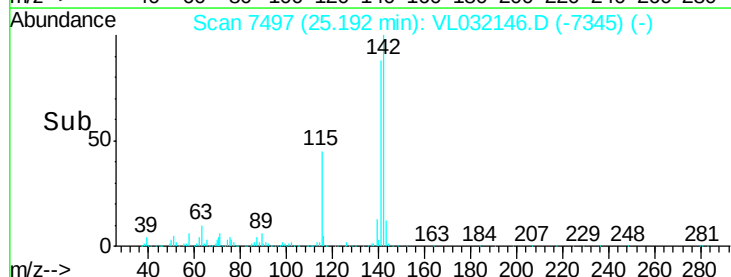
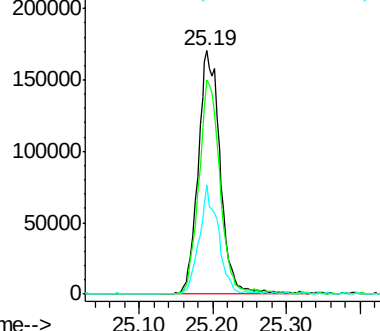
115 38.7 29.4 44.0

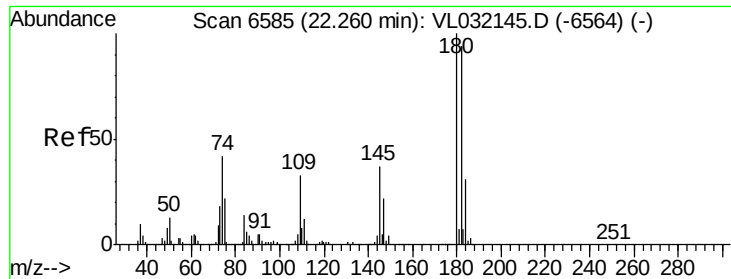


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 2.65 ppbv
 RT: 22.26 min Scan# 6584
 Delta R.T. -0.02 min
 Lab File: VL032146.D
 Acq: 29 Jun 2018 18:45

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.4	76.2	114.4
184	30.8	24.4	36.6

Manual Integrations
 APPROVED

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 7/2/2018 4:24:49 PM

