

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL020519\
 Data File : VL033170.D
 Acq On : 6 Feb 2019 2:31
 Operator : SY/AP
 Sample : VSTDIC002
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Manual Integrations
 APPROVED

MMDadoda
 2/20/2019 12:20:52 PM

Quant Time: Feb 20 05:47:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 20 2019
 QLast Update : Wed Feb 20 05:04:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1167266	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2734213	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2920195	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	2137811	9.39	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.90%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.08	85	371550	1.665	ppbv	96
3) Chlorodifluoromethane	3.01	51	266903	1.899	ppbv	99
4) Chloromethane	3.17	50	139122	1.875	ppbv	97
5) Vinyl Chloride	3.29	62	136570	1.761	ppbv	98
6) Bromomethane	3.52	94	80296	1.885	ppbv	88
7) Chloroethane	3.60	64	48368	1.909	ppbv #	88
8) Dichlorotetrafluoroethane	3.22	85	333135	1.909	ppbv	100
9) Propene	3.04	41	127937	1.884	ppbv	100
10) Heptane	8.25	43	399708	1.946	ppbv	100
11) Trichlorofluoromethane	4.00	101	343389	1.901	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.55	101	232214	1.855	ppbv	99
13) Ethanol	3.65	45	43978m	1.942	ppbv	
14) Bromoethene	3.79	108	101882	1.887	ppbv	98
15) Acetone	3.90	43	251514	1.913	ppbv	98
16) 1,3-Butadiene	3.36	39	112117	1.796	ppbv	94
17) tert-Butyl alcohol	4.36	59	45967	1.833	ppbv	97
18) 1,1-Dichloroethene	4.35	96	105209	1.877	ppbv	99
19) Isopropyl Alcohol	4.02	45	155736	1.746	ppbv #	99
20) Methylene Chloride	4.41	84	97656	1.867	ppbv	97
21) Allyl Chloride	4.48	41	165295	1.904	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	100862	1.853	ppbv	95
23) Vinyl Acetate	5.15	43	417632	1.832	ppbv	99
24) 1,1-Dichloroethane	5.09	63	297211	1.844	ppbv	97
25) Ethyl Acetate	5.77	43	630265	2.132	ppbv	99
26) Hexane	5.78	57	298921	2.153	ppbv	97
27) Carbon Disulfide	4.62	76	238089	1.872	ppbv	98
28) Methyl tert-Butyl Ether	5.12	73	355942	1.877	ppbv	99
29) Chloroform	5.85	83	452936	2.129	ppbv	99
30) Cyclohexane	7.25	84	243447	1.890	ppbv	89
31) cis-1,2-Dichloroethene	5.64	61	290344	2.090	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	425784	1.818	ppbv	99
34) 2-Butanone	5.33	43	366374	2.112	ppbv	99
35) Carbon Tetrachloride	7.14	117	426098	2.041	ppbv	94
36) Benzene	7.00	78	612464	2.210	ppbv	99
37) 1,2-Dichloroethane	6.41	62	337243	2.196	ppbv	100
38) Trichloroethene	7.96	130	231353	1.950	ppbv	92
39) 1,2-Dichloropropane	7.73	63	236997	2.166	ppbv	97
40) 1,4-Dioxane	7.97	88	79106m	1.989	ppbv	
41) Tetrahydrofuran	6.16	42	248400	2.314	ppbv	97
42) Bromodichloromethane	7.91	83	494314	2.221	ppbv	94
43) Methyl Methacrylate	8.14	69	244244	2.195	ppbv	97

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Manual Integrations
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Quant Time: Feb 20 05:47:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 20 2019
 QLast Update : Wed Feb 20 05:04:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	1053378	2.243	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	272832	2.208	ppbv	99
46) cis-1,3-Dichloropropene	8.84	75	345272	2.193	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	245521	2.162	ppbv	97
48) Dibromochloromethane	10.45	129	391673	2.191	ppbv	99
49) Bromoform	13.20	173	341741	2.222	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	616659	2.217	ppbv	99
51) 2-Hexanone	10.28	43	475388	2.168	ppbv #	100
52) Tetrachloroethene	11.37	164	225440	2.118	ppbv	98
53) Toluene	9.95	91	725403	2.211	ppbv	98
54) 1,2-Dibromoethane	10.76	107	383461	2.153	ppbv	94
56) 1,1,1,2-Tetrachloroethane	12.28	131	289203	2.126	ppbv #	1
57) Chlorobenzene	12.30	112	543277	2.101	ppbv	97
58) Ethyl Benzene	12.87	91	1002465	2.091	ppbv	98
59) m/p-Xylene	13.13	91	1699139m	4.261	ppbv	
60) o-Xylene	13.85	91	812324	2.089	ppbv	99
61) Styrene	13.69	104	620688	2.114	ppbv	99
62) Isopropylbenzene	14.83	105	1143792	2.085	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.83	83	576967	1.898	ppbv	98
64) n-propylbenzene	15.73	120	288852	2.071	ppbv	95
65) tert-Butylbenzene	16.91	119	1021480	2.138	ppbv	98
66) Benzyl Chloride	17.16	91	344000	2.015	ppbv	99
67) sec-Butylbenzene	17.46	105	1489211	2.147	ppbv	98
69) p-Isopropyltoluene	17.82	119	1224827	2.121	ppbv	99
70) n-Butylbenzene	18.72	91	1311781	2.105	ppbv	99
71) 2-Chlorotoluene	15.62	91	906082	2.102	ppbv	99
72) 4-Ethyltoluene	16.00	105	939304	2.094	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	906463	2.113	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	950933	2.137	ppbv	94
75) 1,3-Dichlorobenzene	17.17	146	544294	2.121	ppbv	99
76) 1,4-Dichlorobenzene	17.31	146	546655	2.150	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	538209	2.123	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	279568m	2.217	ppbv	
79) Naphthalene	22.42	128	1049944	2.196	ppbv	97
80) Naphthalene,2-methyl-	25.12	142	621556	2.570	ppbv	98
81) 1,2,4-Trichlorobenzene	22.14	180	515218	2.122	ppbv	99

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

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Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
VSTDICC002

Manual Integrations
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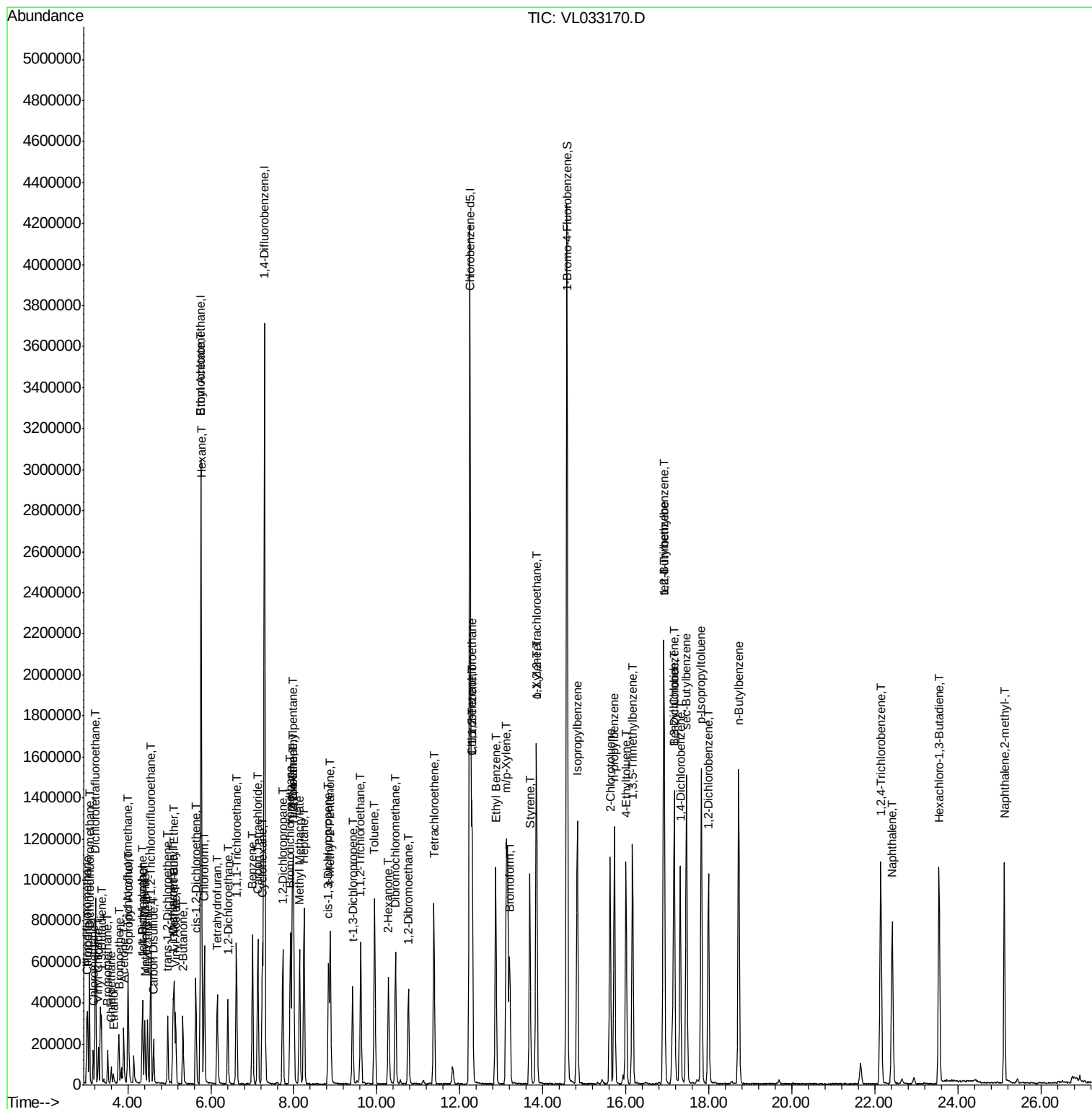
Quant Time: Feb 20 05:47:02 2019

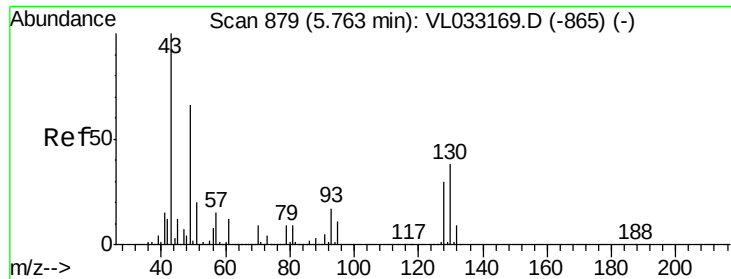
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020519AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb

QLast Update : Wed Feb 20 05:04:48 2019

Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.00 min

Lab File: VL033170.D

Acq: 6 Feb 2019 2:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 49 Resp: 1167266

Ion Ratio Lower Upper

49 100

128 46.6 23.6 71.0

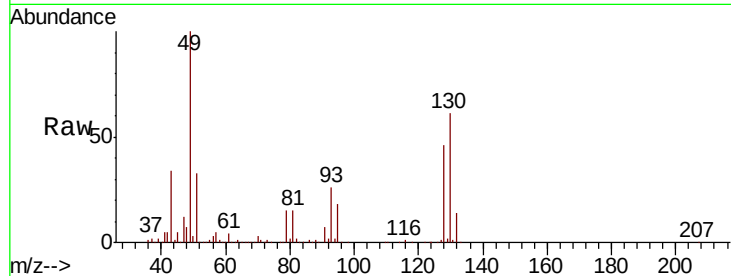
130 60.6 30.3 91.0

Manual Integrations

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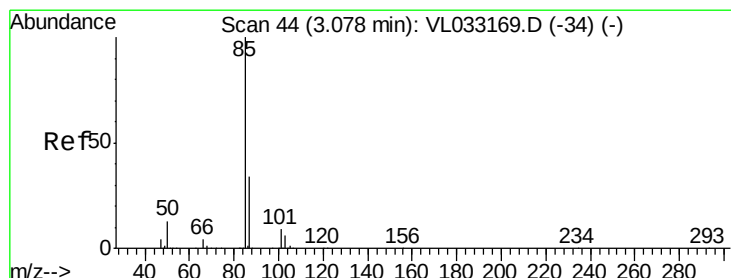
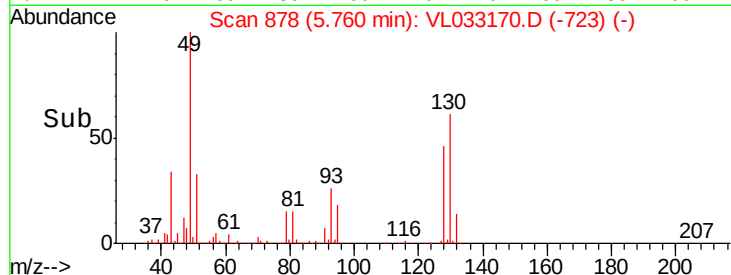
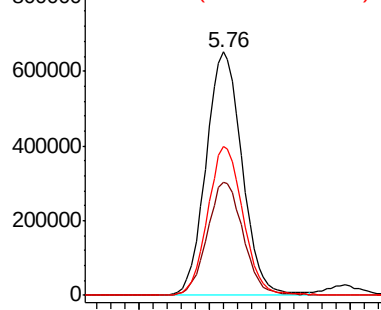
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 1.665 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033170.D

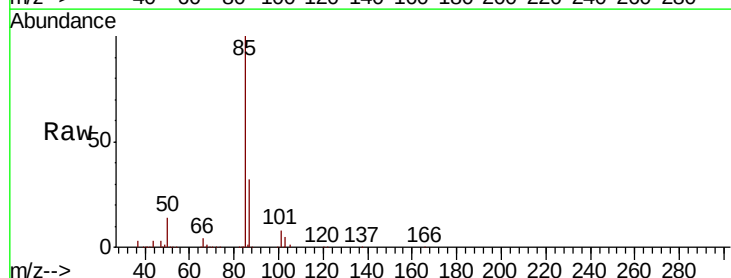
Acq: 6 Feb 2019 2:31

Tgt Ion: 85 Resp: 371550

Ion Ratio Lower Upper

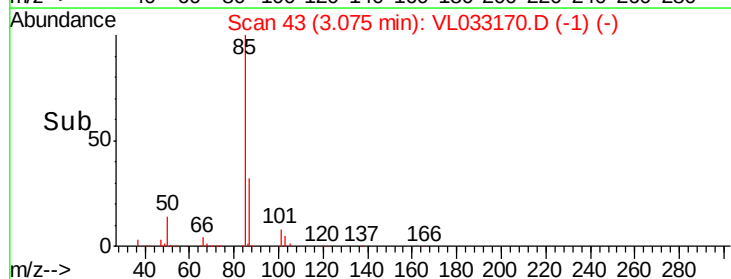
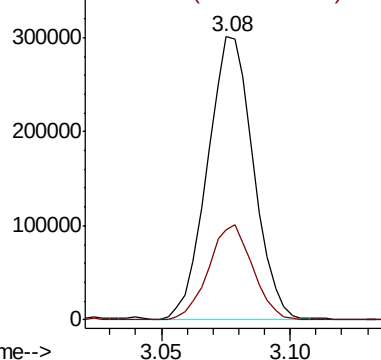
85 100

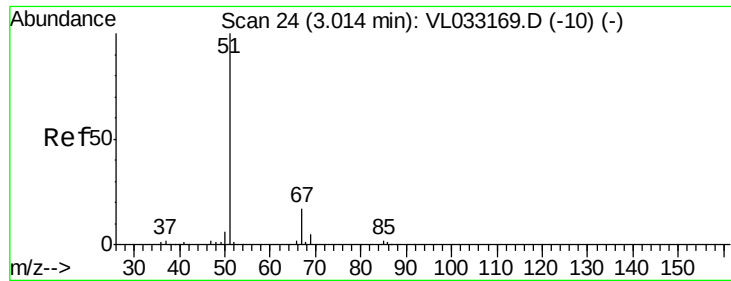
87 31.9 27.4 41.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.899 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.00 min

Lab File: VL033170.D

Acq: 6 Feb 2019 2:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 51 Resp: 266903

Ion Ratio Lower Upper

51 100

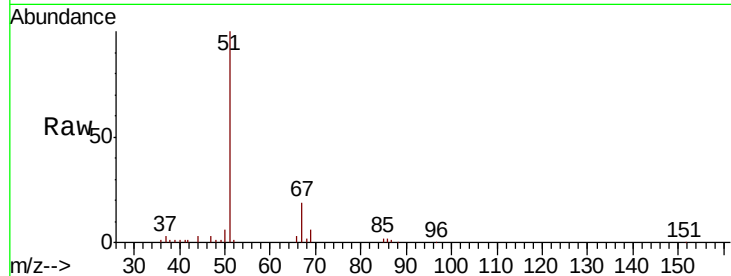
67 17.9 14.0 21.0

Manual Integrations

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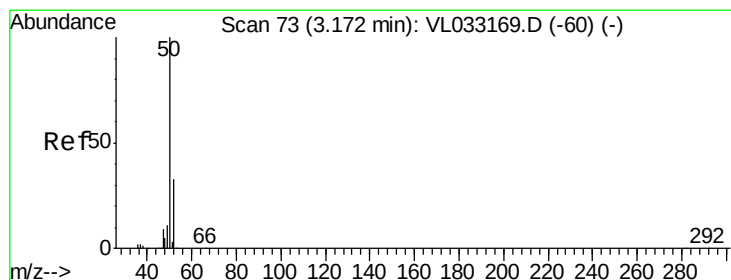
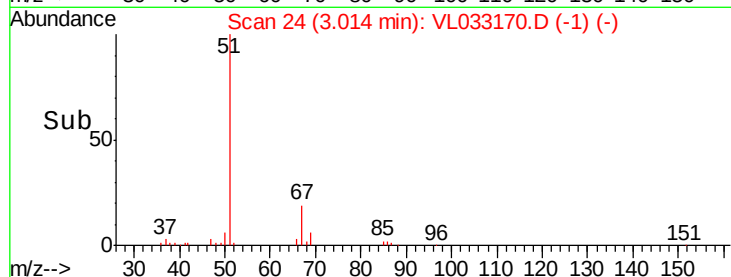
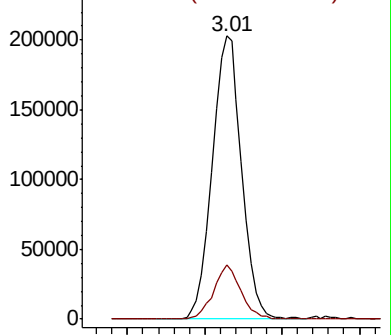
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 1.875 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033170.D

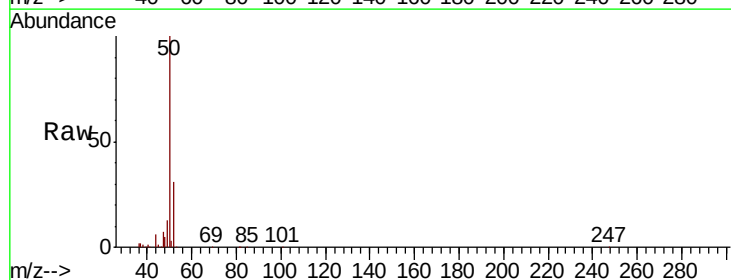
Acq: 6 Feb 2019 2:31

Tgt Ion: 50 Resp: 139122

Ion Ratio Lower Upper

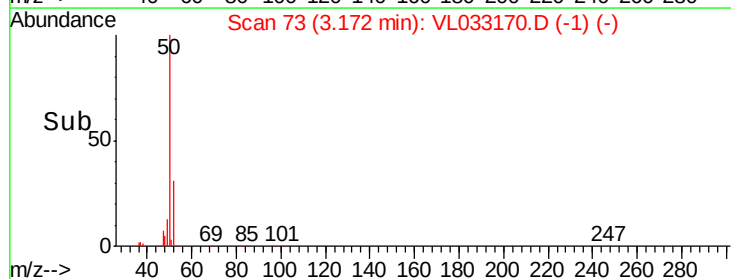
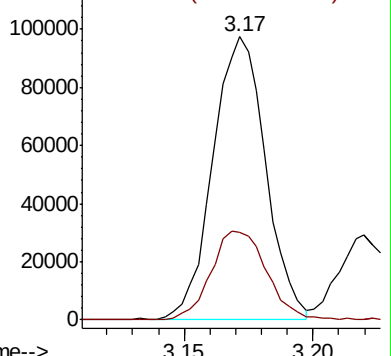
50 100

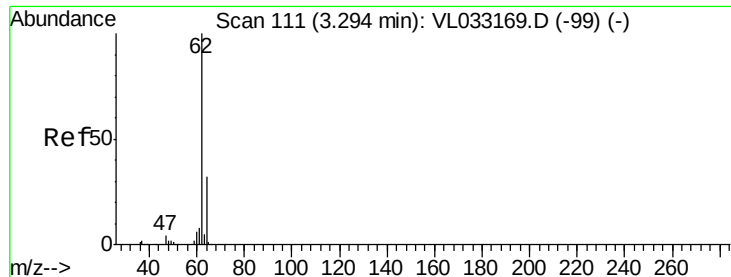
52 31.1 26.5 39.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 1.761 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033170.D

Acq: 6 Feb 2019 2:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 62 Resp: 136570

Ion Ratio Lower Upper

62 100

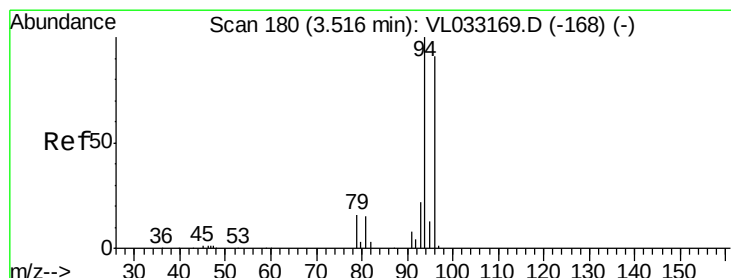
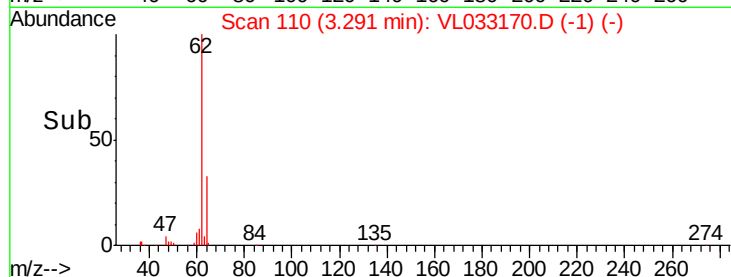
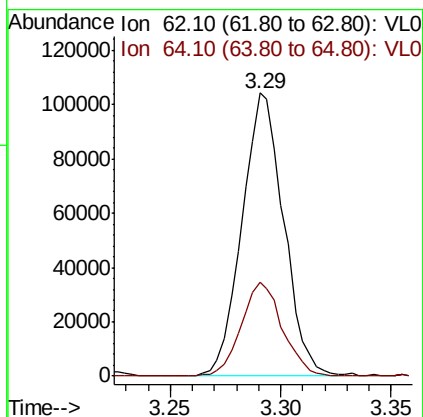
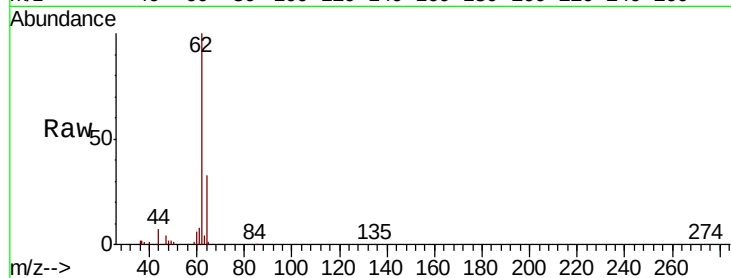
64 33.3 25.6 38.4

Manual Integrations

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#6

Bromomethane

Concen: 1.885 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033170.D

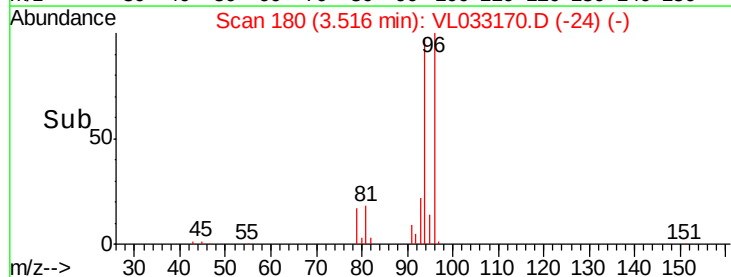
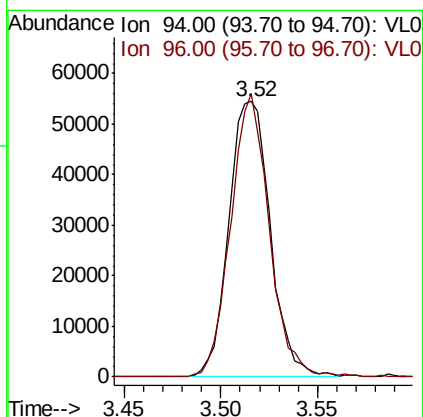
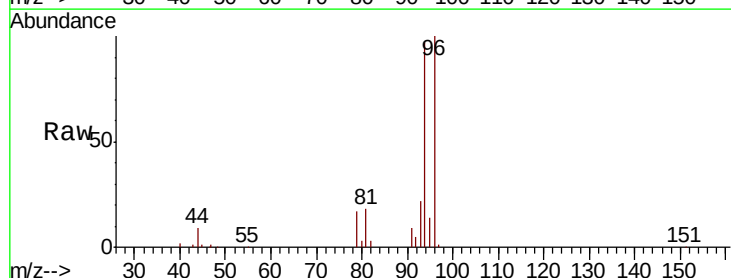
Acq: 6 Feb 2019 2:31

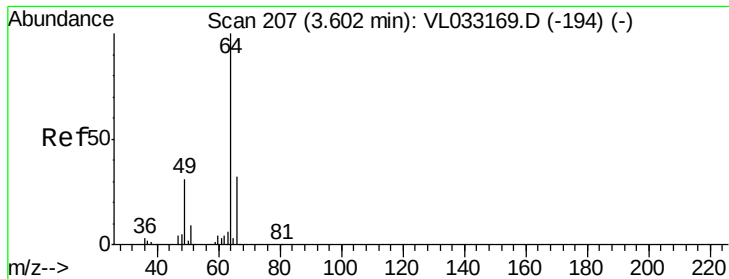
Tgt Ion: 94 Resp: 80296

Ion Ratio Lower Upper

94 100

96 103.1 73.2 109.8





#7

Chloroethane

Concen: 1.909 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033170.D

Acq: 6 Feb 2019 2:31

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VSTDIC002

Tgt Ion: 64 Resp: 48368

Ion Ratio Lower Upper

64 100

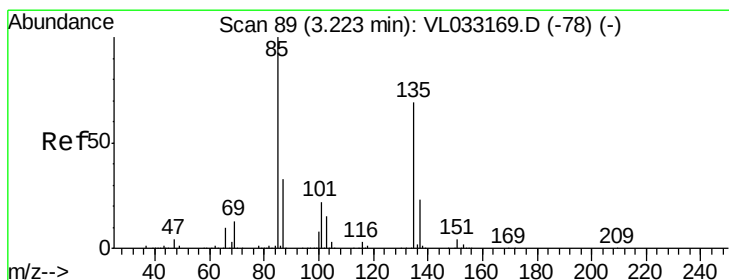
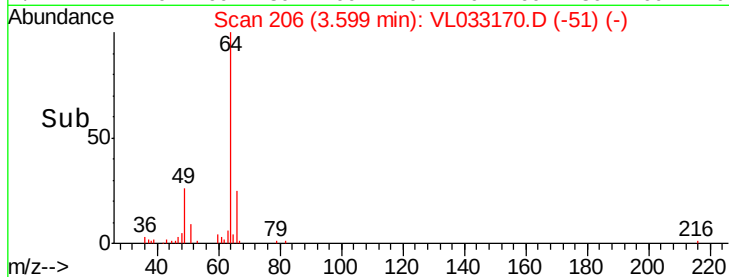
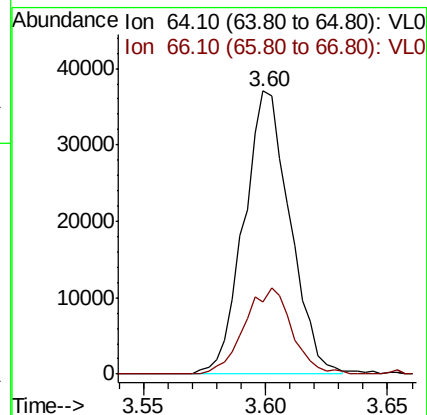
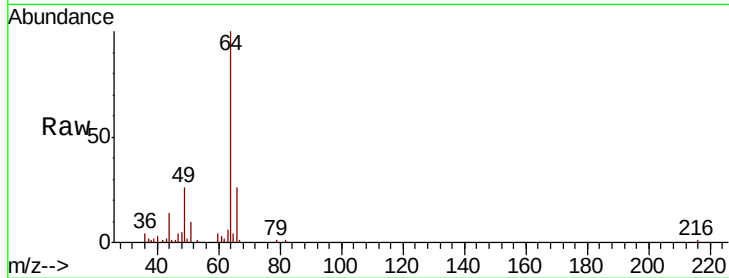
66 25.6 26.0 39.0#

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 1.909 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033170.D

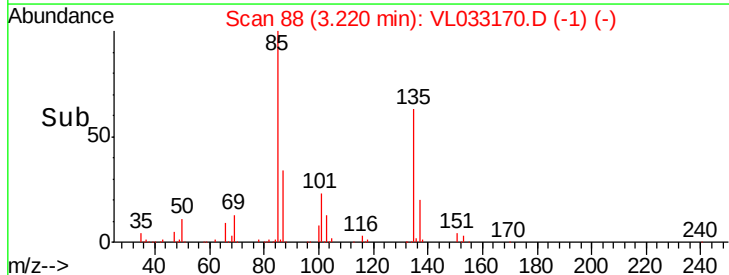
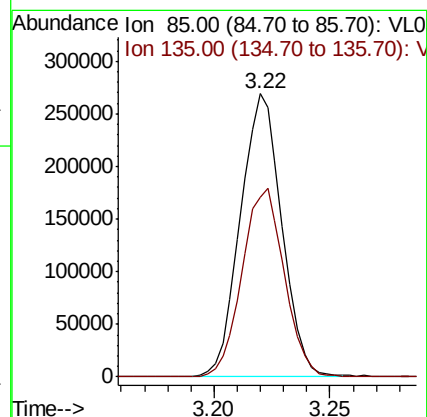
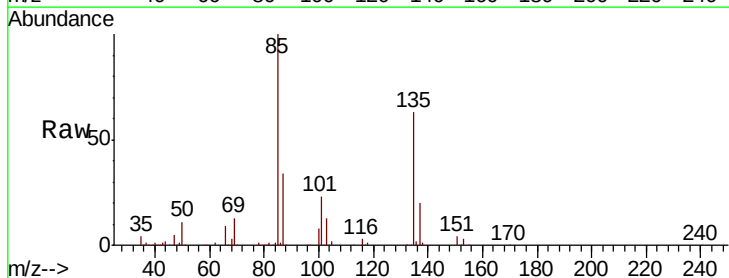
Acq: 6 Feb 2019 2:31

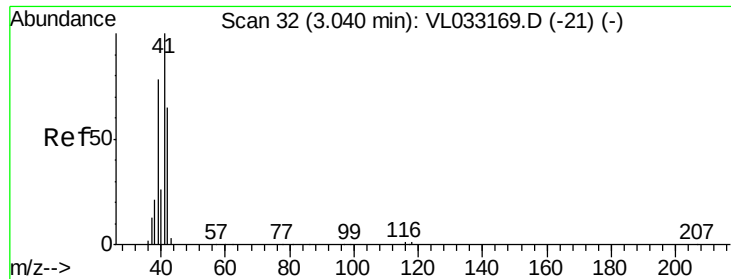
Tgt Ion: 85 Resp: 333135

Ion Ratio Lower Upper

85 100

135 68.0 54.3 81.5





#9

Propene

Concen: 1.884 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033170.D

Acq: 6 Feb 2019 2:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 41 Resp: 127937

Ion Ratio Lower Upper

41 100

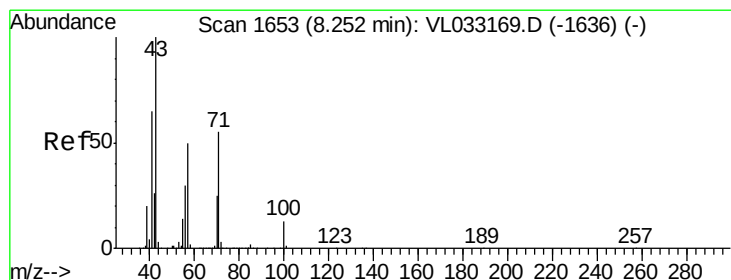
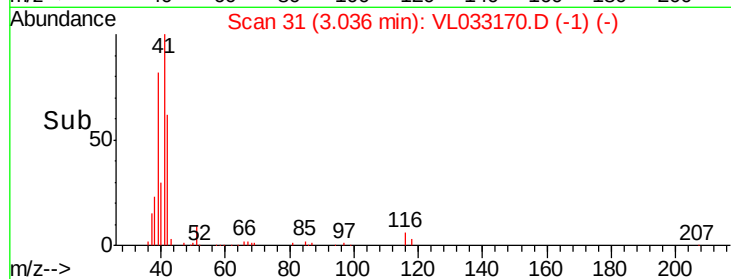
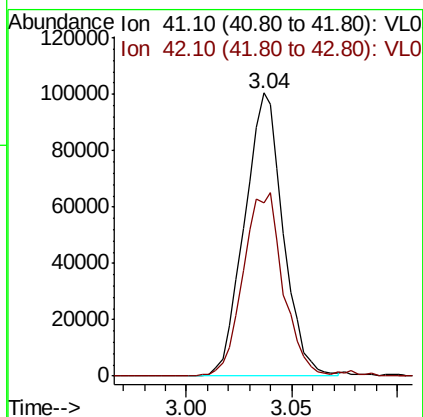
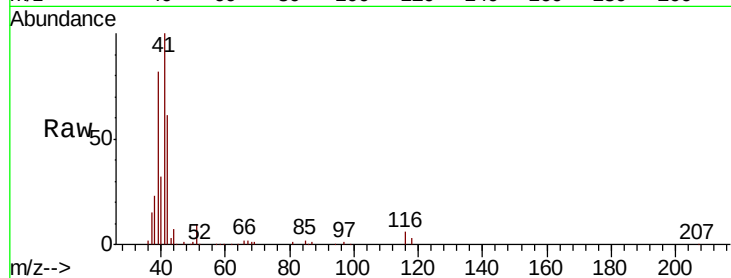
42 68.5 55.0 82.6

Manual Integrations

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#10

Heptane

Concen: 1.946 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. -0.00 min

Lab File: VL033170.D

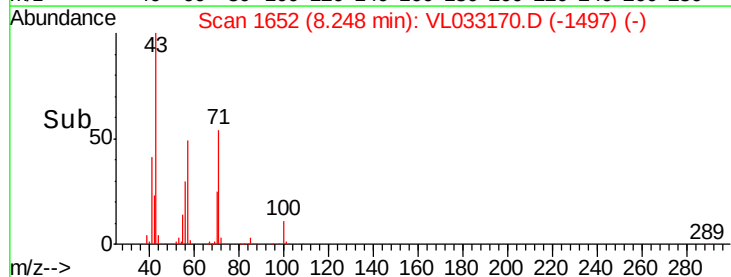
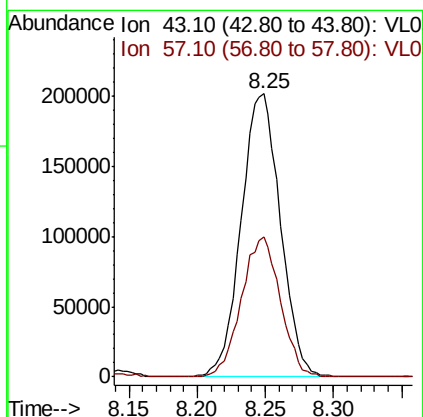
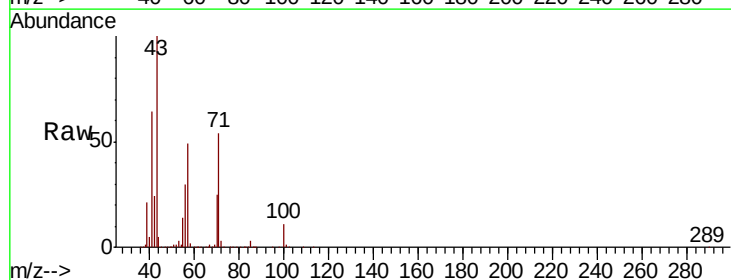
Acq: 6 Feb 2019 2:31

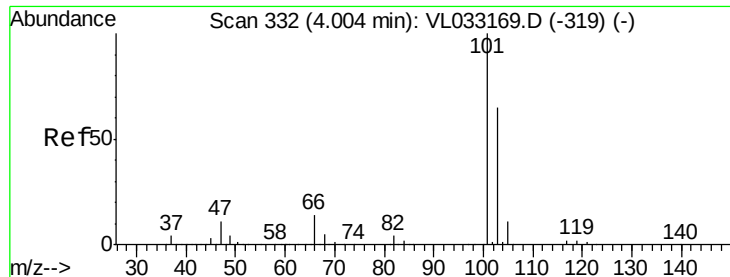
Tgt Ion: 43 Resp: 399708

Ion Ratio Lower Upper

43 100

57 49.6 39.5 59.3





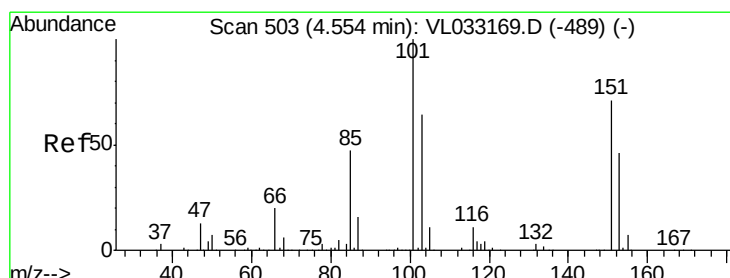
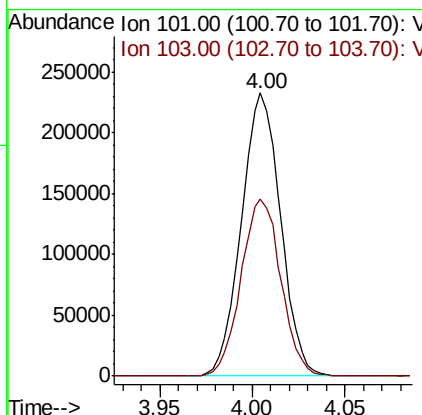
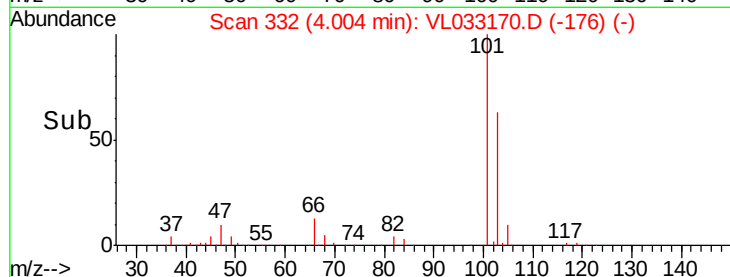
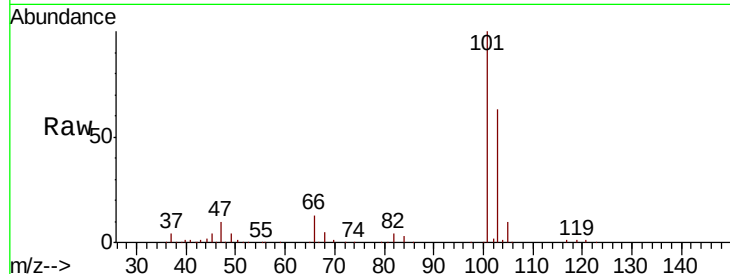
#11
 Trichlorofluoromethane
 Concen: 1.901 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. 0.00 min
 Lab File: VL033170.D
 Acq: 6 Feb 2019 2:31

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC002

Tgt Ion:101 Resp: 343389
 Ion Ratio Lower Upper
 101 100
 103 62.6 51.7 77.5

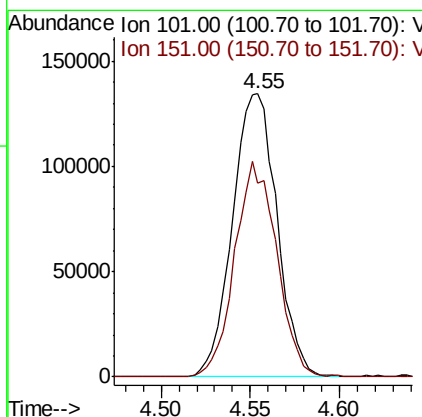
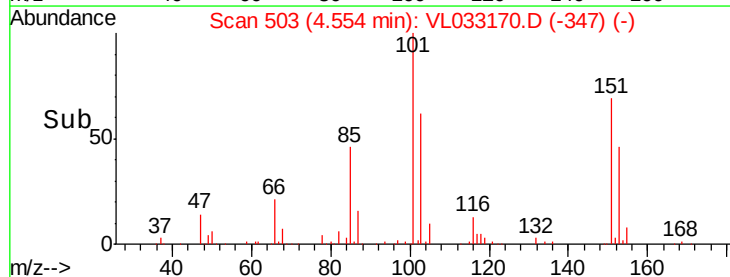
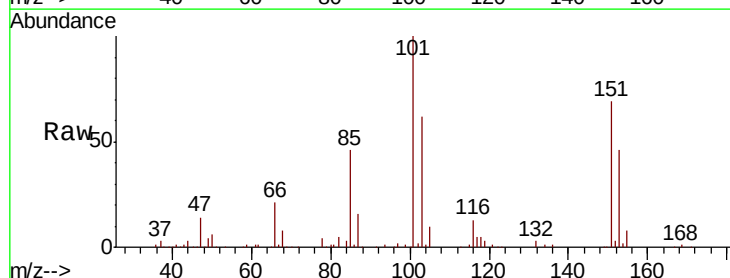
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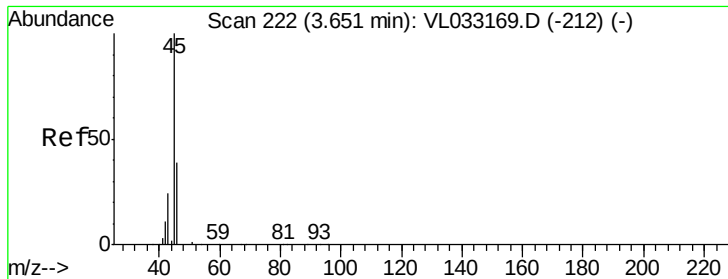
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 1.855 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VL033170.D
 Acq: 6 Feb 2019 2:31

Tgt Ion:101 Resp: 232214
 Ion Ratio Lower Upper
 101 100
 151 72.3 57.4 86.0





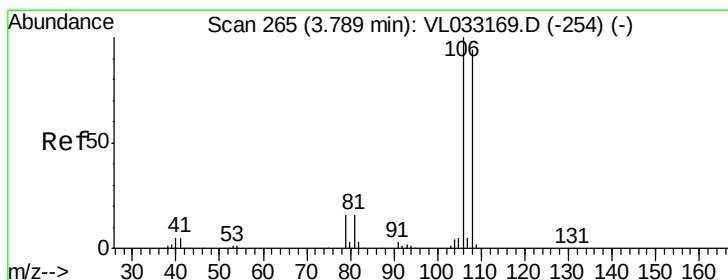
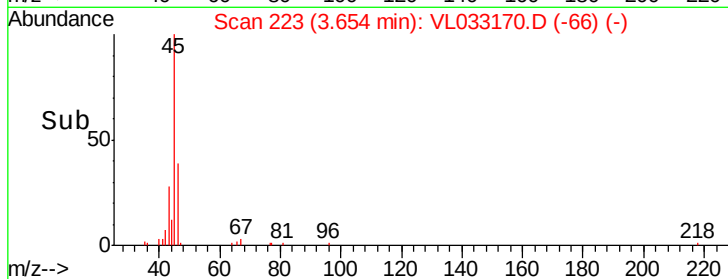
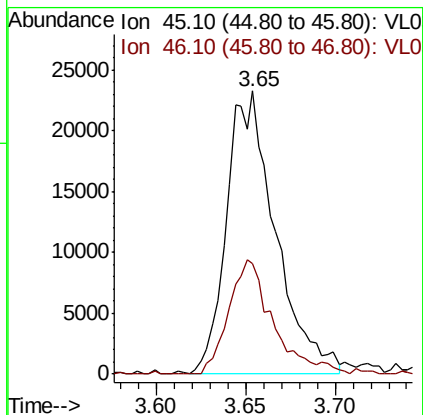
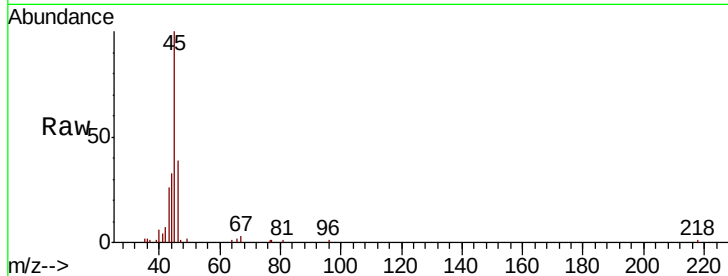
#13
Ethanol
Concen: 1.942 ppbv m
RT: 3.65 min Scan# 223
Delta R.T. 0.00 min
Lab File: VL033170.D
Acq: 6 Feb 2019 2:31

Instrument :
MSVOA_L
ClientSampled :
VSTDIC002

Tgt Ion: 45 Resp: 43978
Ion Ratio Lower Upper
45 100
46 37.2 15.0 60.2

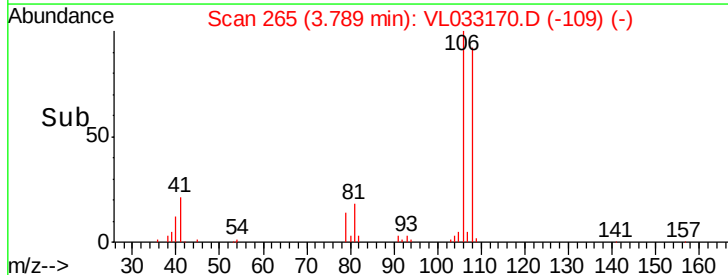
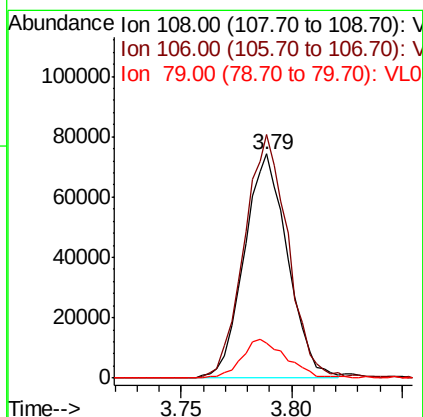
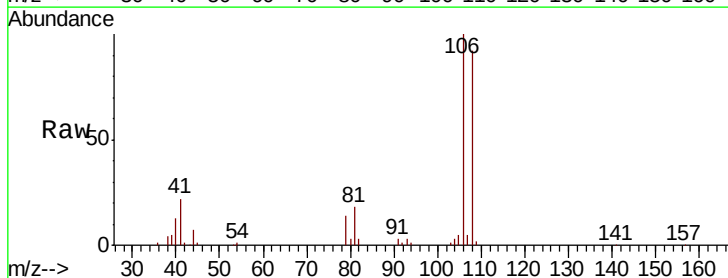
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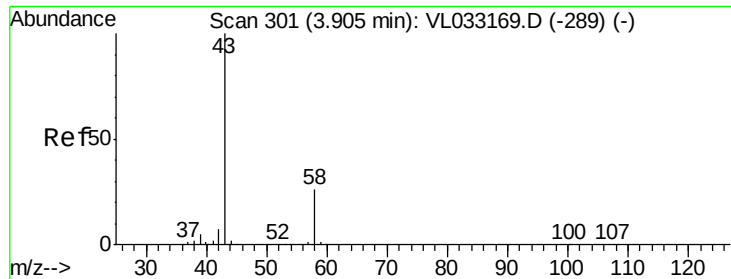
MMDadoda
2/20/2019 12:20:52 PM



#14
Bromoethene
Concen: 1.887 ppbv
RT: 3.79 min Scan# 265
Delta R.T. 0.00 min
Lab File: VL033170.D
Acq: 6 Feb 2019 2:31

Tgt Ion: 108 Resp: 101882
Ion Ratio Lower Upper
108 100
106 109.9 86.0 129.0
79 17.8 14.5 21.7





#15

Acetone

Concen: 1.913 ppbv

RT: 3.90 min Scan# 301

Delta R.T. 0.00 min

Lab File: VL033170.D

Acq: 6 Feb 2019 2:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 43 Resp: 251514

Ion Ratio Lower Upper

43 100

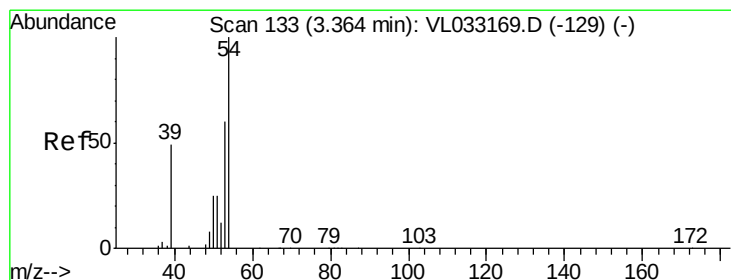
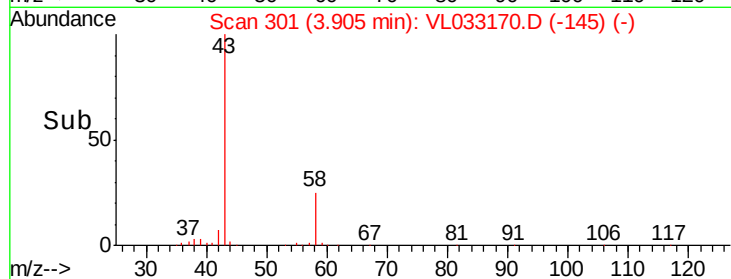
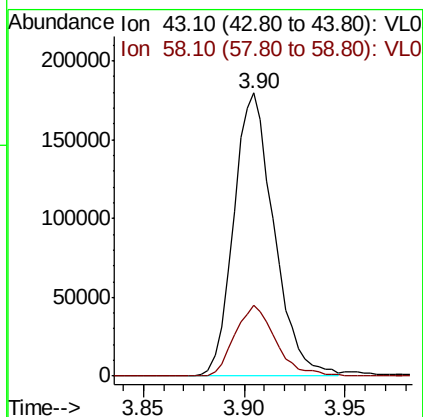
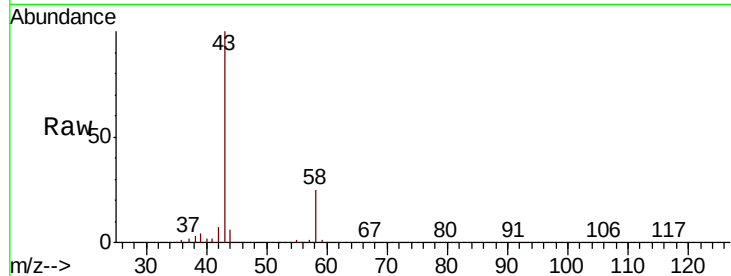
58 25.6 21.1 31.7

Manual Integrations

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#16

1,3-Butadiene

Concen: 1.796 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL033170.D

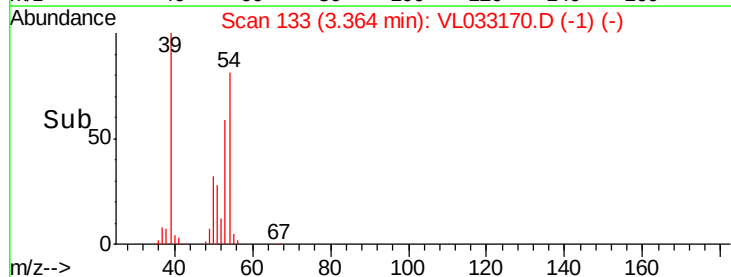
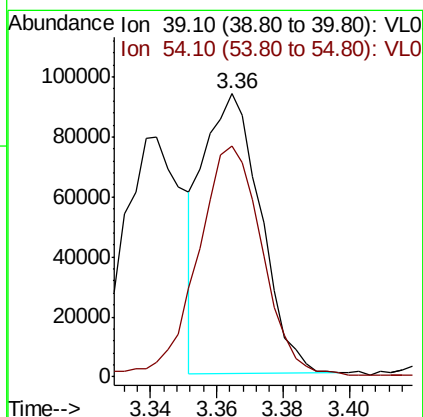
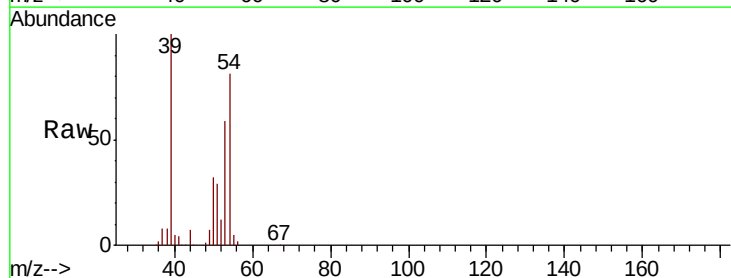
Acq: 6 Feb 2019 2:31

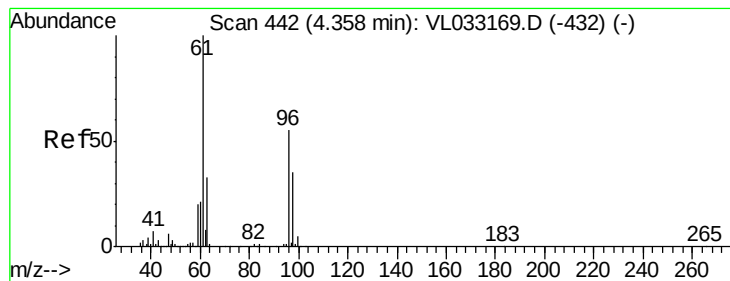
Tgt Ion: 39 Resp: 112117

Ion Ratio Lower Upper

39 100

54 94.3 71.3 106.9





#17

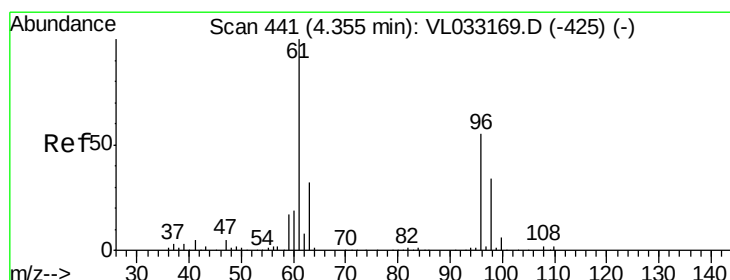
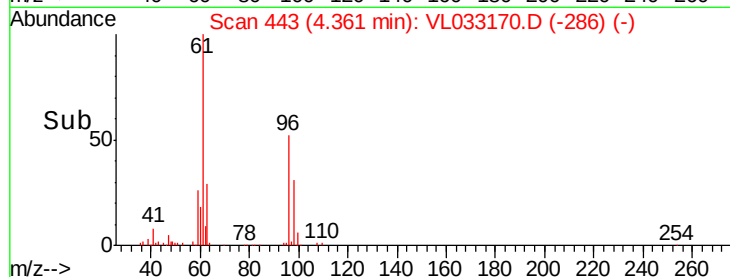
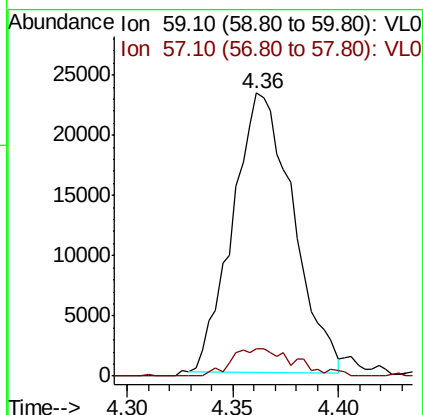
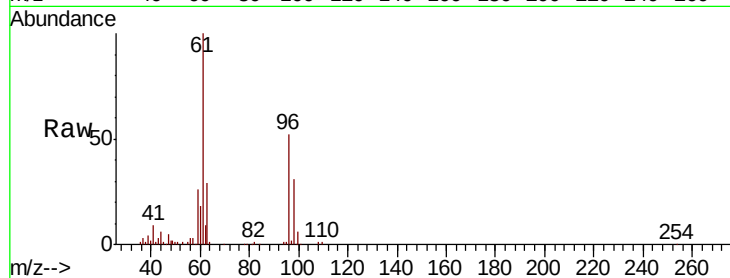
tert-Butyl alcohol
Concen: 1.833 ppbv
RT: 4.36 min Scan# 443
Delta R.T. 0.00 min
Lab File: VL033170.D
Acq: 6 Feb 2019 2:31

Instrument :
MSVOA_L
ClientSampled :
VSTDIC002

Tgt Ion: 59 Resp: 45967
Ion Ratio Lower Upper
59 100
57 10.5 7.6 11.4

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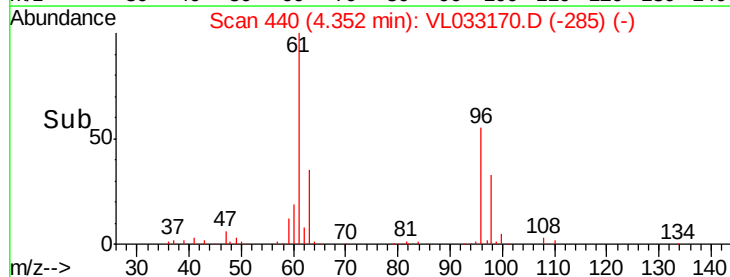
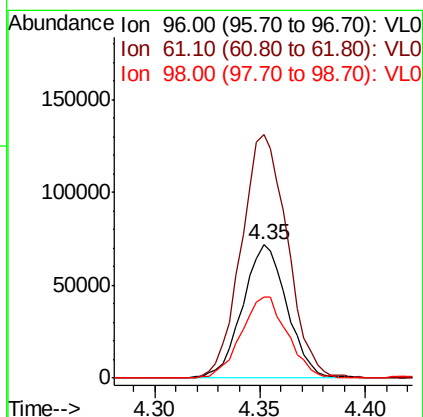
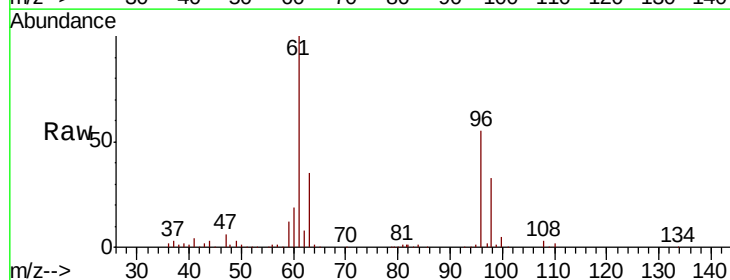
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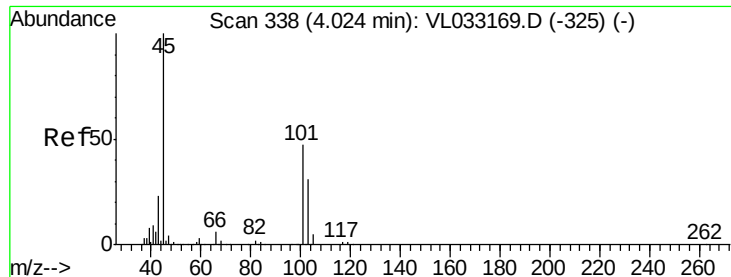


#18

1,1-Dichloroethene
Concen: 1.877 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033170.D
Acq: 6 Feb 2019 2:31

Tgt Ion: 96 Resp: 105209
Ion Ratio Lower Upper
96 100
61 182.7 145.0 217.6
98 60.8 50.0 75.0





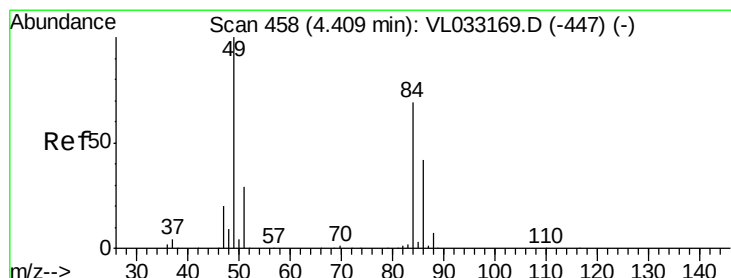
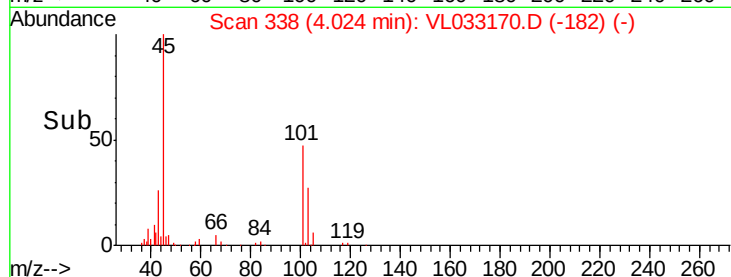
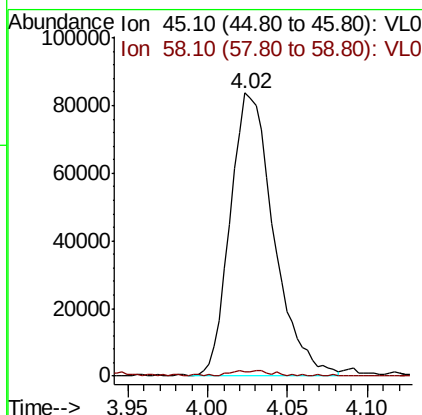
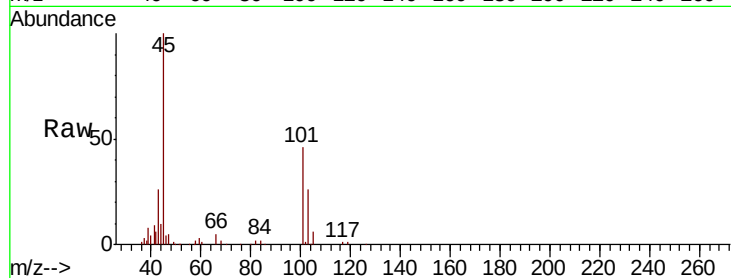
#19
Isopropyl Alcohol
Concen: 1.746 ppbv
RT: 4.02 min Scan# 338
Delta R.T. 0.00 min
Lab File: VL033170.D
Acq: 6 Feb 2019 2:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 45 Resp: 155736
Ion Ratio Lower Upper
45 100
58 2.4 1.5 2.3#

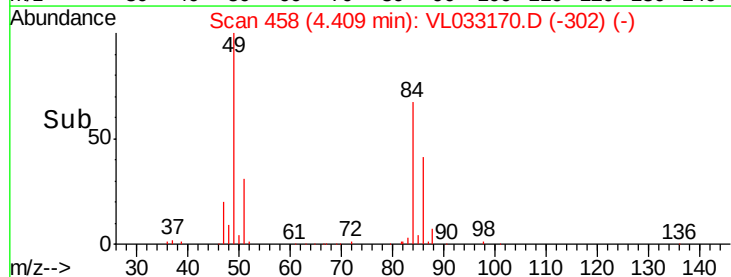
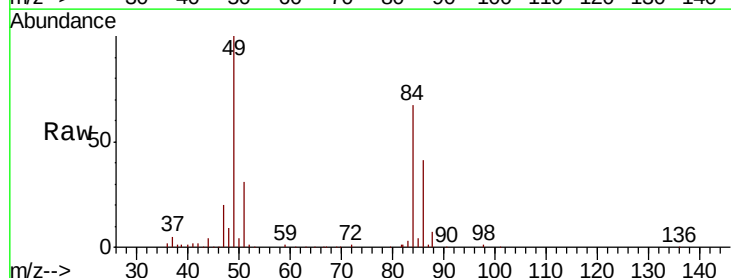
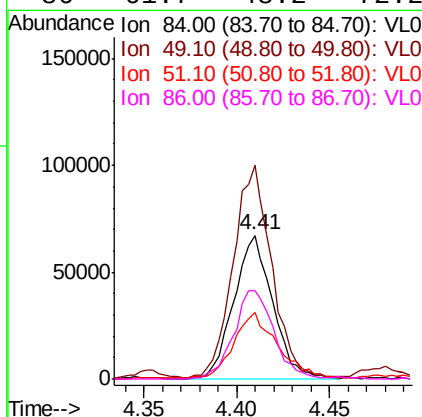
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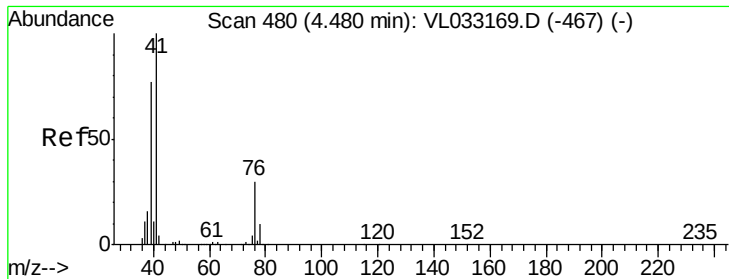
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#20
Methylene Chloride
Concen: 1.867 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.00 min
Lab File: VL033170.D
Acq: 6 Feb 2019 2:31

Tgt Ion: 84 Resp: 97656
Ion Ratio Lower Upper
84 100
49 146.9 115.8 173.8
51 45.5 33.0 49.6
86 61.7 48.2 72.2





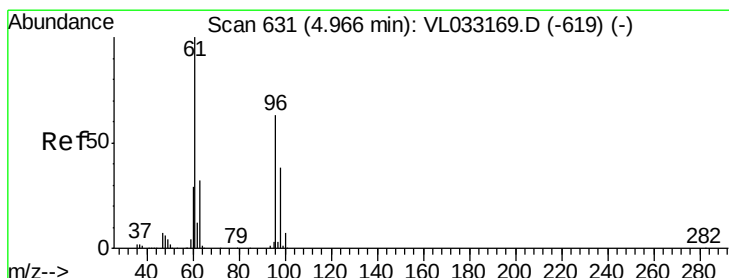
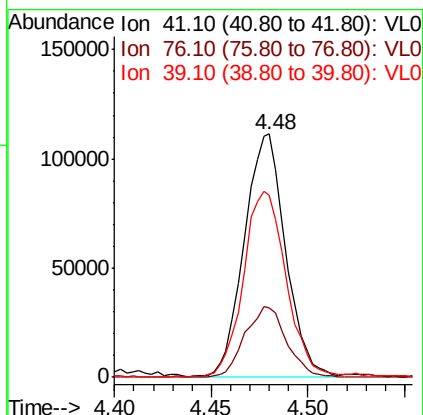
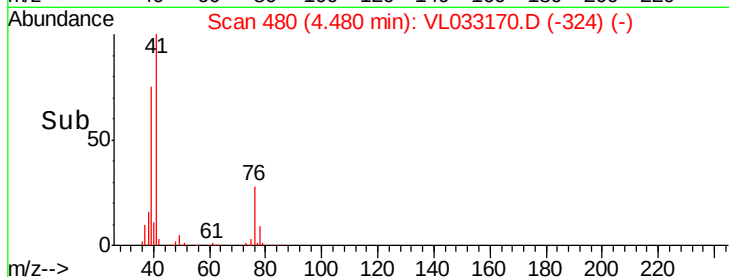
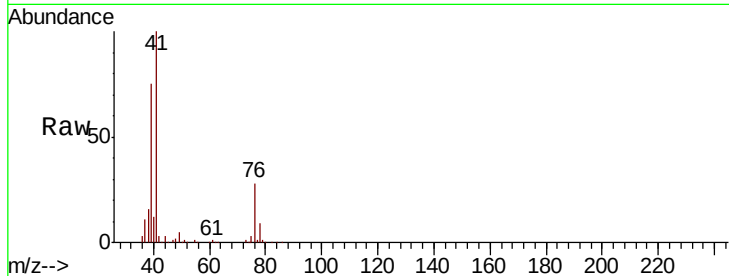
#21
 Allyl Chloride
 Concen: 1.904 ppbv
 RT: 4.48 min Scan# 480
 Delta R.T. 0.00 min
 Lab File: VL033170.D
 Acq: 6 Feb 2019 2:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion	Ratio	Lower	Upper
41	100		
76	29.3	24.5	36.7
39	79.8	64.1	96.1

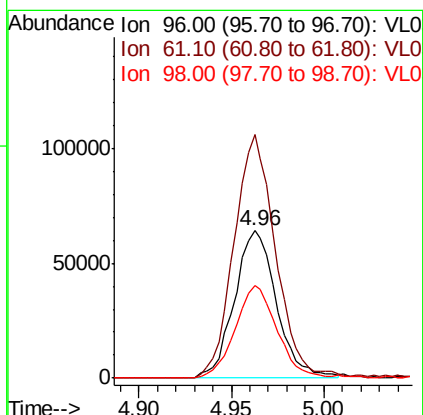
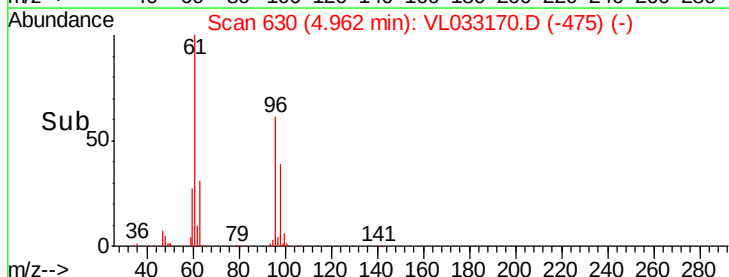
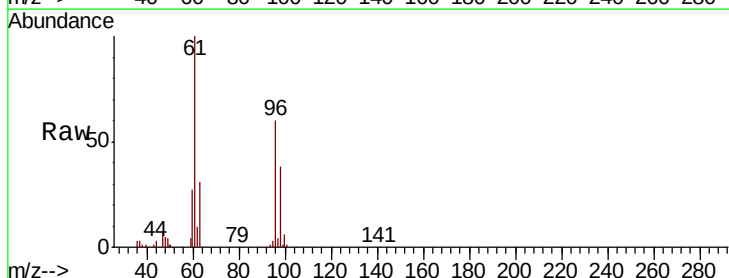
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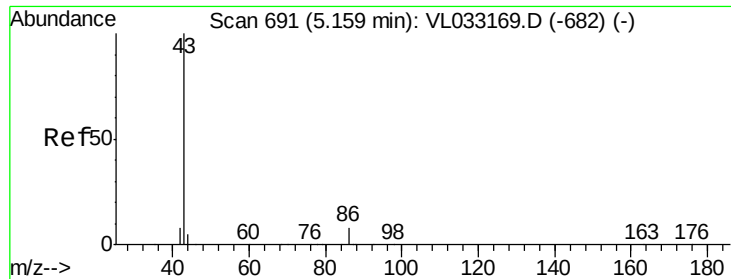
MMDadoda
 2/20/2019 12:20:52 PM



#22
 trans-1,2-Dichloroethene
 Concen: 1.853 ppbv
 RT: 4.96 min Scan# 630
 Delta R.T. -0.00 min
 Lab File: VL033170.D
 Acq: 6 Feb 2019 2:31

Tgt Ion	Ratio	Lower	Upper
96	100		
61	165.4	126.4	189.6
98	62.8	48.4	72.6





#23

Vinyl Acetate

Concen: 1.832 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.01 min

Lab File: VL033170.D

Acq: 6 Feb 2019 2:31

Instrument :

MSVOA_L

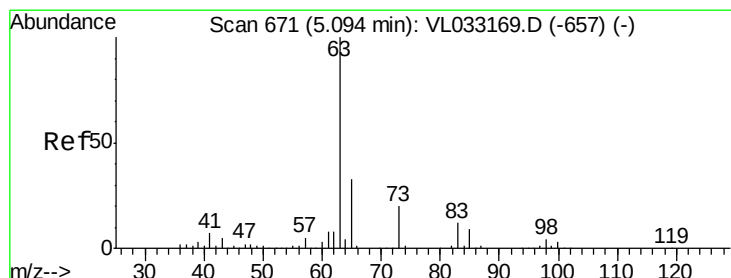
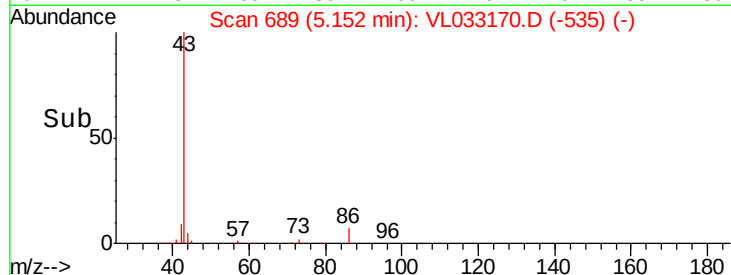
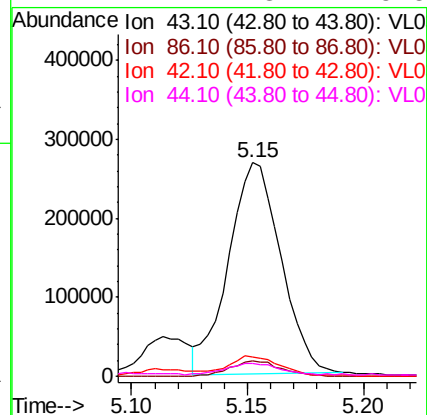
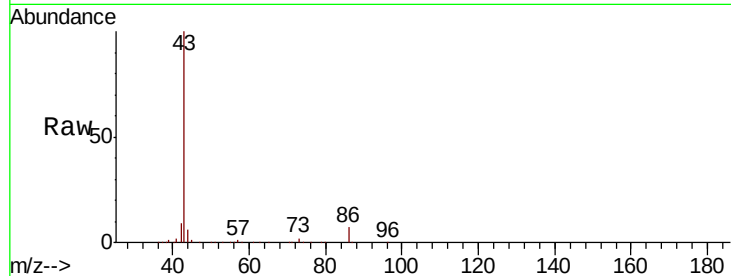
ClientSampleId :

VSTDIC002

Tgt Ion	Ratio	Lower	Upper
43	100		
86	7.3	5.8	8.8
42	8.5	7.4	11.0
44	4.7	3.7	5.5

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#24

1,1-Dichloroethane

Concen: 1.844 ppbv

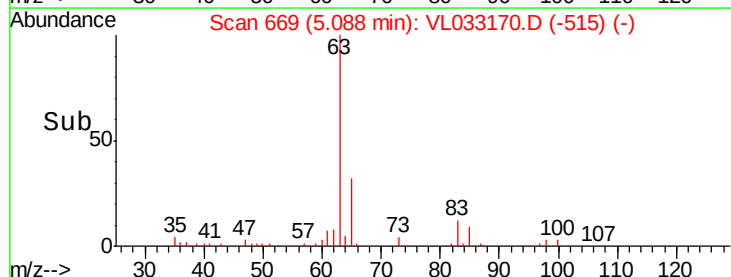
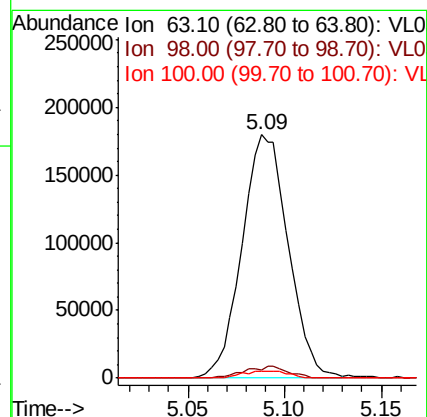
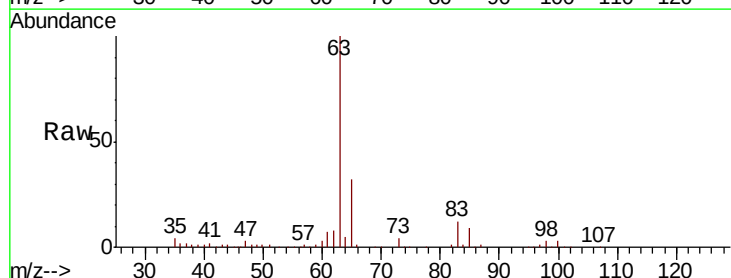
RT: 5.09 min Scan# 669

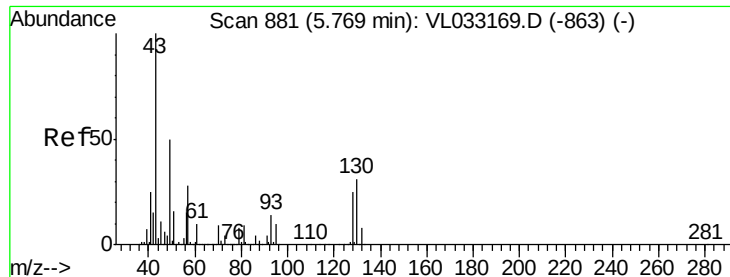
Delta R.T. -0.01 min

Lab File: VL033170.D

Acq: 6 Feb 2019 2:31

Tgt Ion	Ratio	Lower	Upper
63	100		
98	3.0	2.1	6.5
100	2.6	1.4	4.2





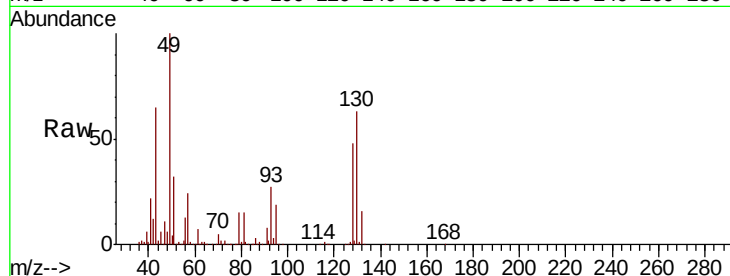
#25
Ethyl Acetate
Concen: 2.132 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.00 min
Lab File: VL033170.D
Acq: 6 Feb 2019 2:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.9	11.9
61	8.8	7.5	11.3
70	6.8	5.8	8.8

Manual Integrations
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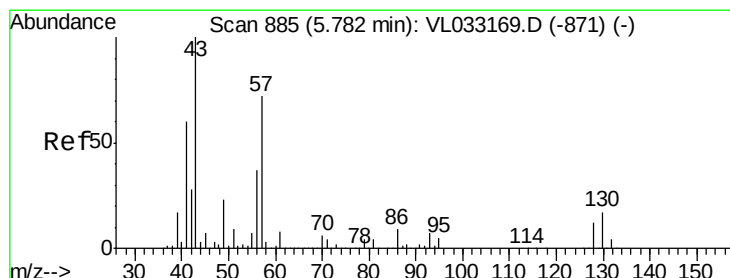
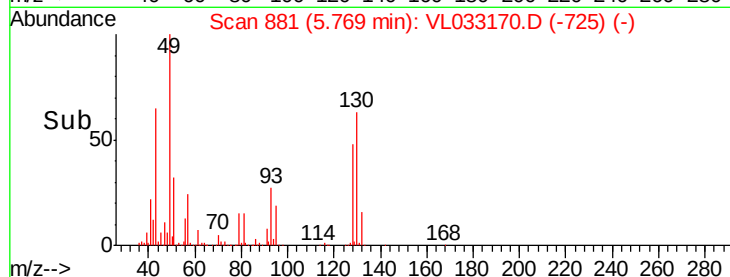
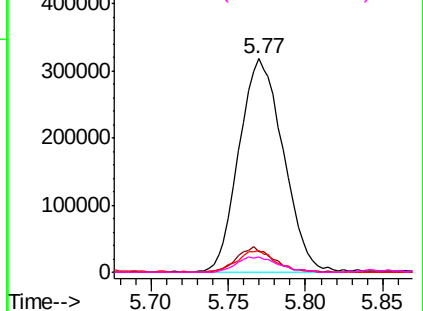
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 2.153 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033170.D
Acq: 6 Feb 2019 2:31

Tgt Ion	Ratio	Lower	Upper
57	100		
41	87.2	69.4	104.2
43	212.4	176.7	265.1
56	51.1	41.4	62.0

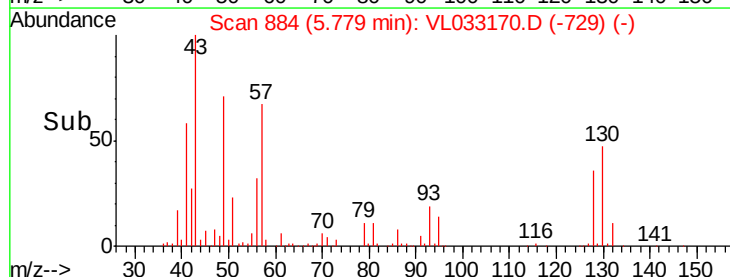
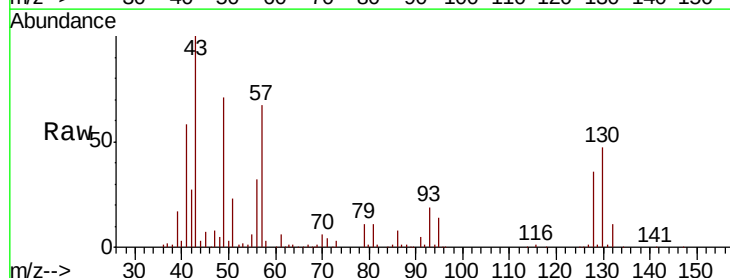
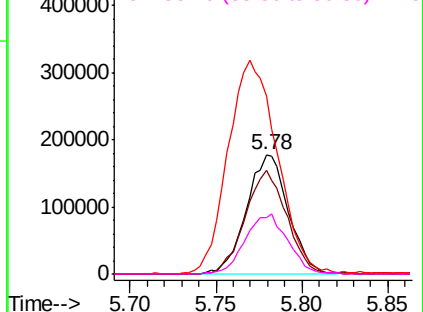
Abundance

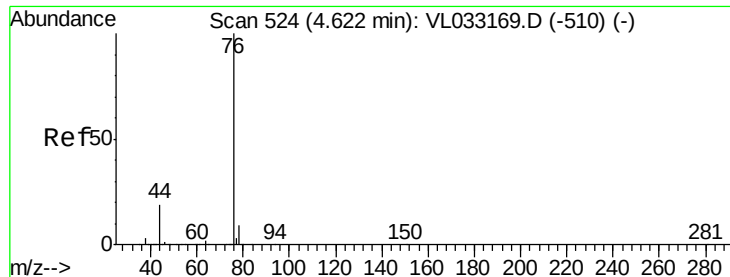
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 1.872 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033170.D

Acq: 6 Feb 2019 2:31

Instrument :

MSVOA_L

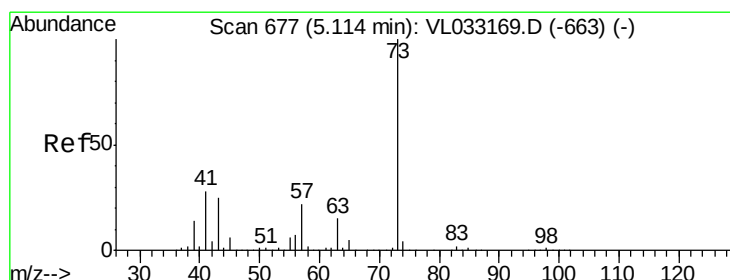
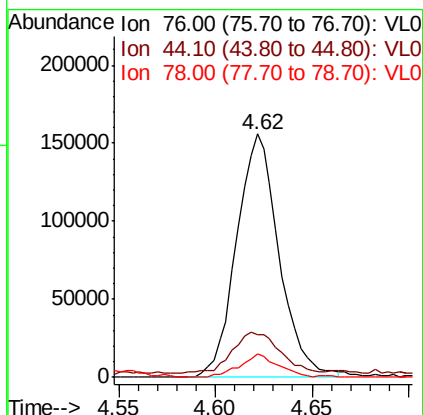
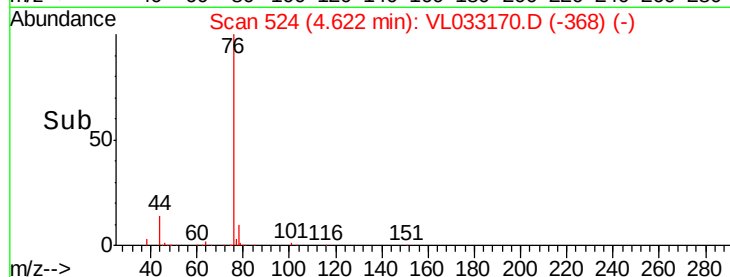
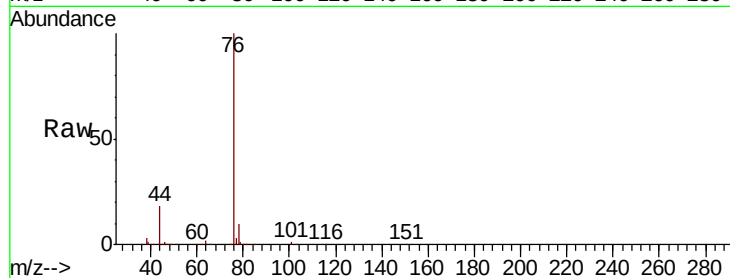
ClientSampleId :

VSTDIC002

Tgt Ion:	76	Resp:	238089
Ion	Ratio	Lower	Upper
76	100		
44	19.8	15.0	22.4
78	9.2	7.4	11.0

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#28

Methyl tert-Butyl Ether

Concen: 1.877 ppbv

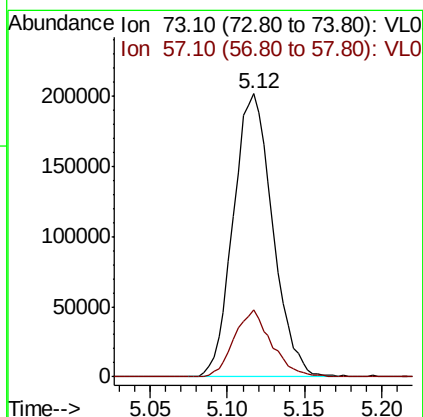
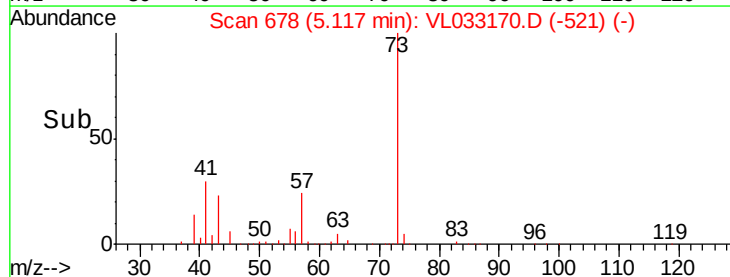
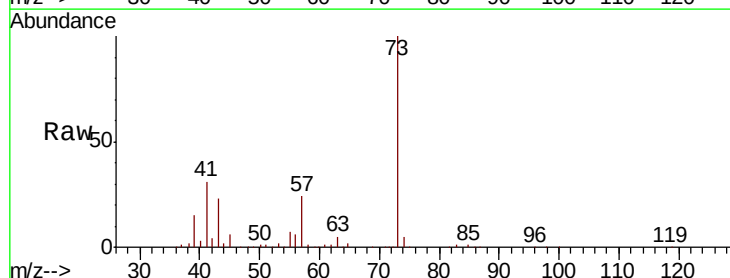
RT: 5.12 min Scan# 678

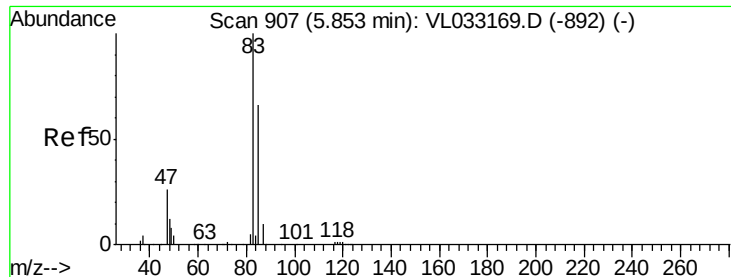
Delta R.T. 0.00 min

Lab File: VL033170.D

Acq: 6 Feb 2019 2:31

Tgt Ion:	73	Resp:	355942
Ion	Ratio	Lower	Upper
73	100		
57	22.7	17.9	26.9





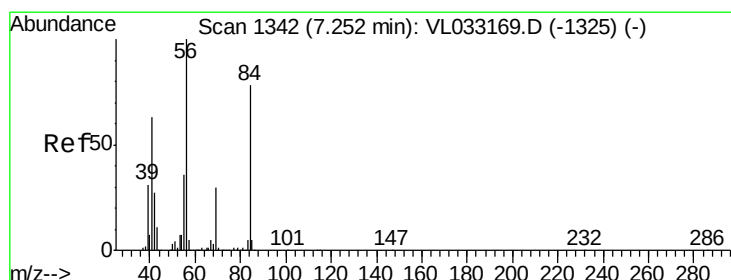
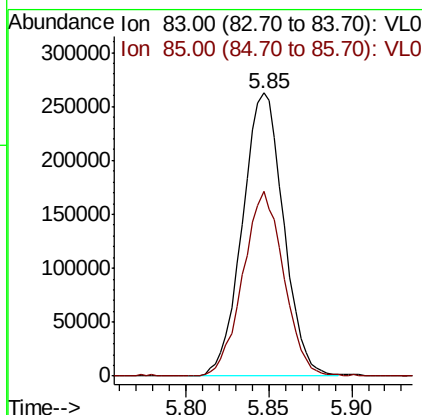
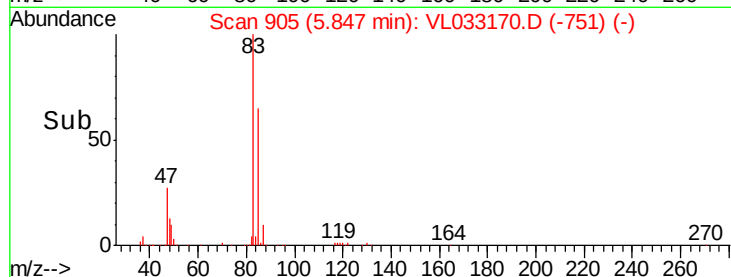
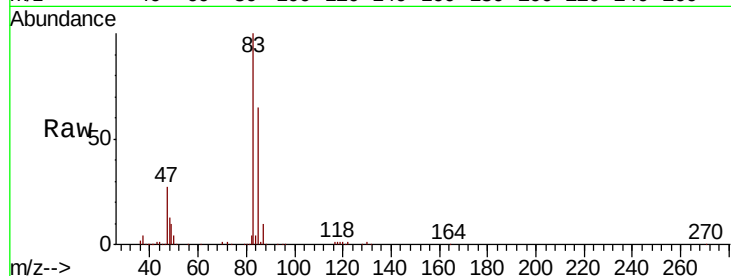
#29
Chloroform
Concen: 2.129 ppbv
RT: 5.85 min Scan# 905
Delta R.T. -0.01 min
Lab File: VL033170.D
Acq: 6 Feb 2019 2:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 83 Resp: 452936
Ion Ratio Lower Upper
83 100
85 65.2 52.6 78.8

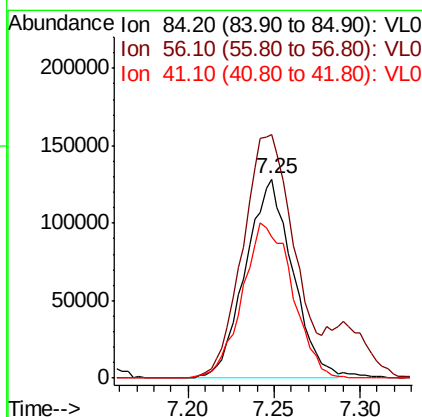
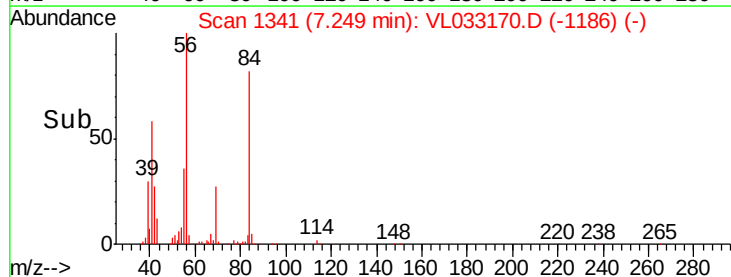
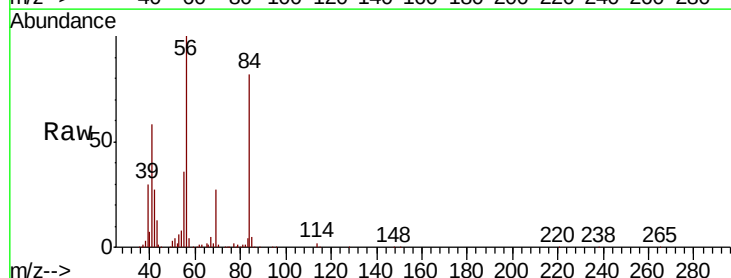
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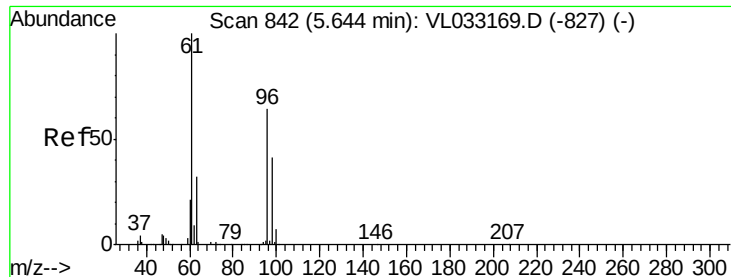
MMDadoda
2/20/2019 12:20:52 PM



#30
Cyclohexane
Concen: 1.890 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VL033170.D
Acq: 6 Feb 2019 2:31

Tgt Ion: 84 Resp: 243447
Ion Ratio Lower Upper
84 100
56 157.2 109.5 164.3
41 83.4 66.6 100.0





#31

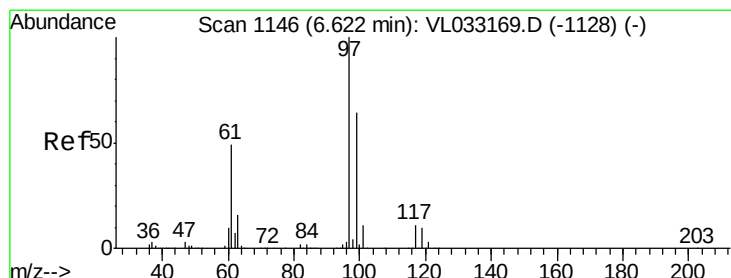
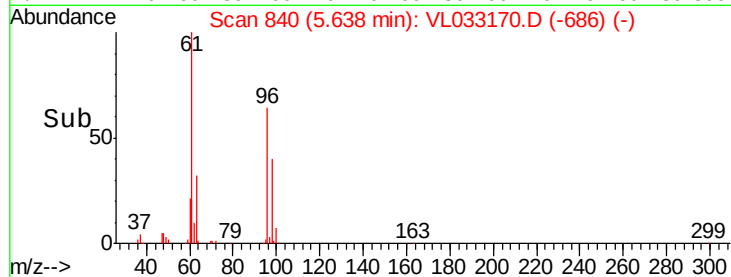
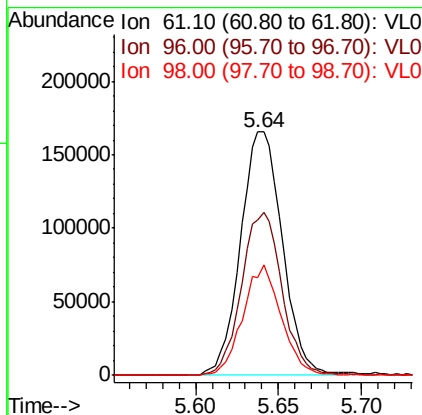
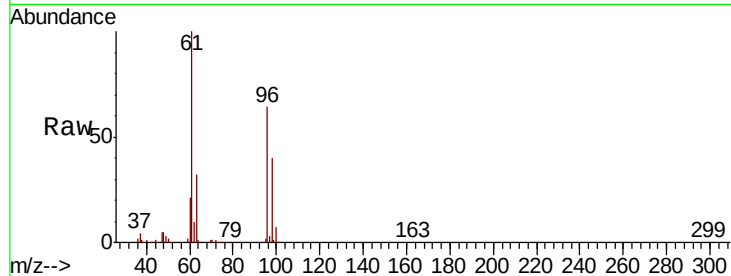
cis-1,2-Dichloroethene
Concen: 2.090 ppbv
RT: 5.64 min Scan# 840
Delta R.T. -0.01 min
Lab File: VL033170.D
Acq: 6 Feb 2019 2:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion	Ratio	Lower	Upper
61	100		
96	63.8	51.2	76.8
98	40.1	32.8	49.2

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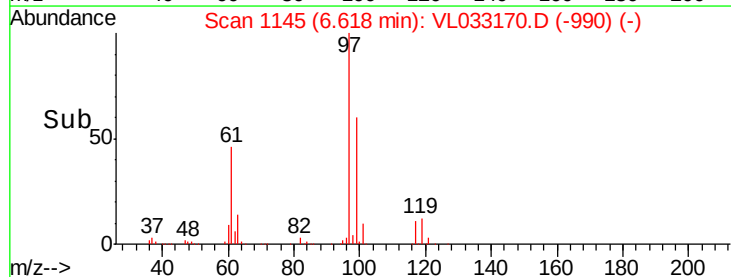
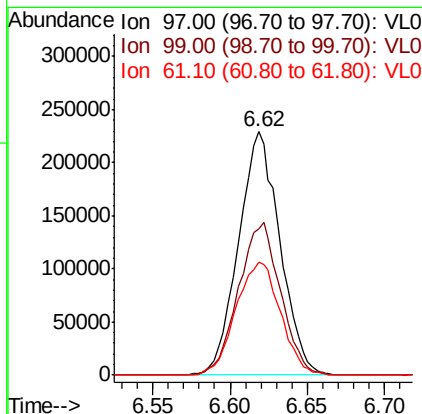
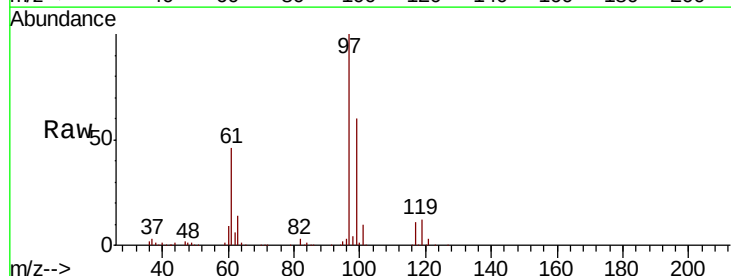
MMDadoda
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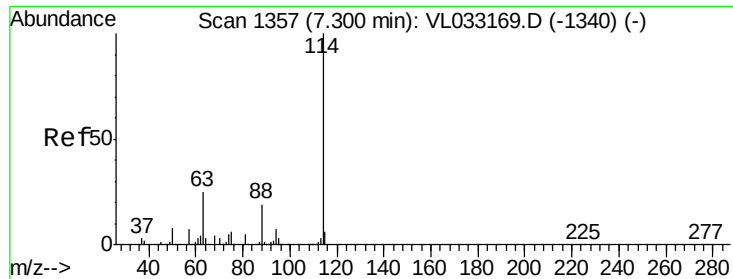


#32

1,1,1-Trichloroethane
Concen: 1.818 ppbv
RT: 6.62 min Scan# 1145
Delta R.T. -0.00 min
Lab File: VL033170.D
Acq: 6 Feb 2019 2:31

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.0	51.4	77.2
61	50.2	38.8	58.2





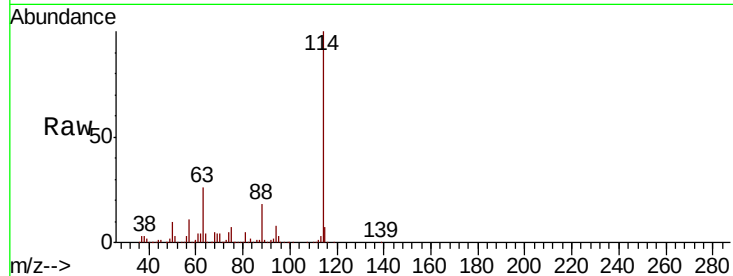
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1354
 Delta R.T. -0.01 min
 Lab File: VL033170.D
 Acq: 6 Feb 2019 2:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion	Ratio	Lower	Upper
114	100		
63	25.7	20.8	31.2
88	18.3	14.6	22.0

Manual Integrations
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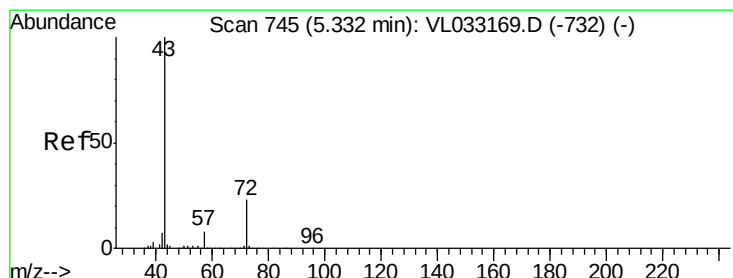
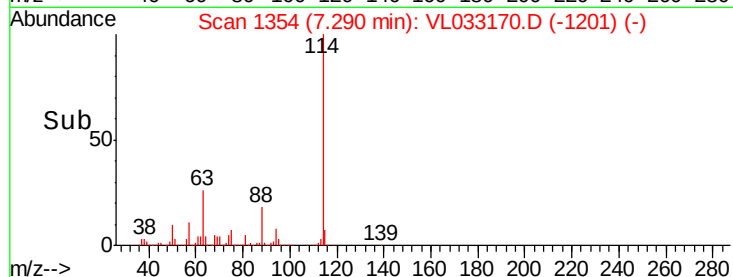
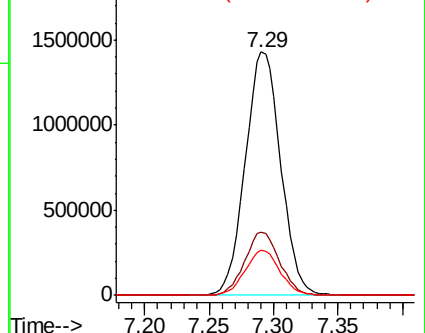


Abundance

Ion 114.10 (113.80 to 114.80): VL0

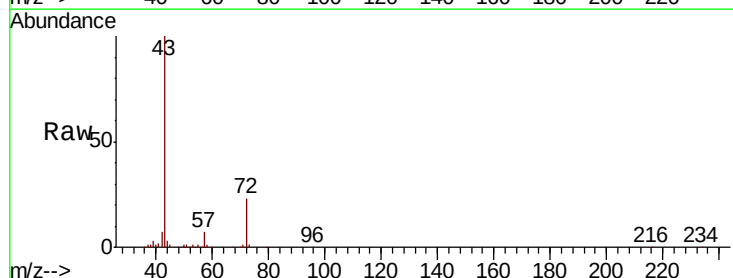
Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34
 2-Butanone
 Concen: 2.112 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. -0.00 min
 Lab File: VL033170.D
 Acq: 6 Feb 2019 2:31

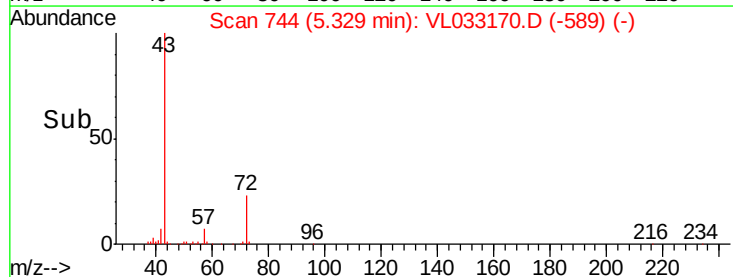
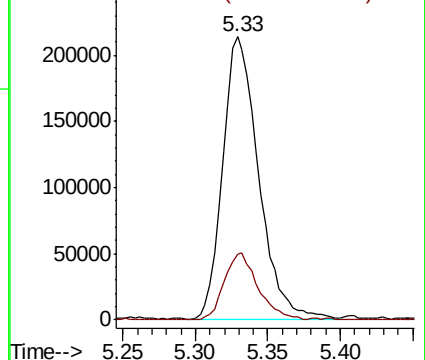
Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.7	17.8	26.6

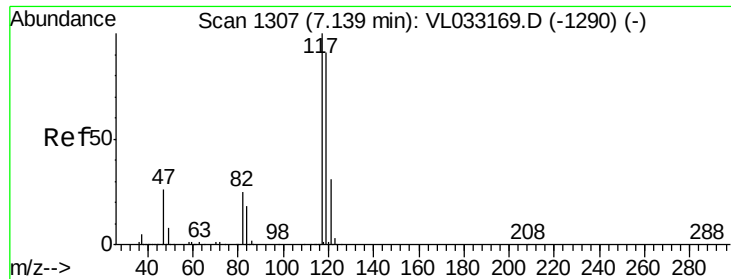


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 2.041 ppbv

RT: 7.14 min Scan# 1306

Delta R.T. -0.00 min

Lab File: VL033170.D

Acq: 6 Feb 2019 2:31

Instrument :

MSVOA_L

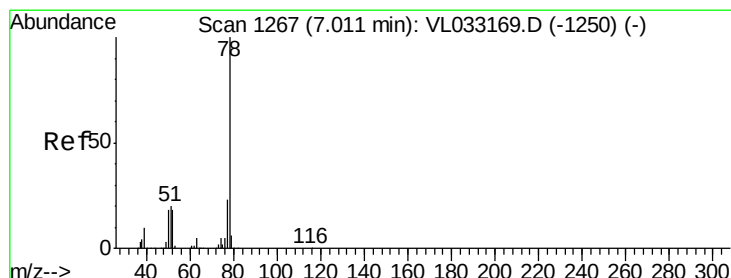
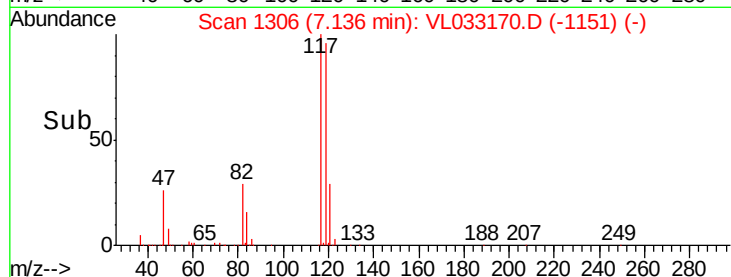
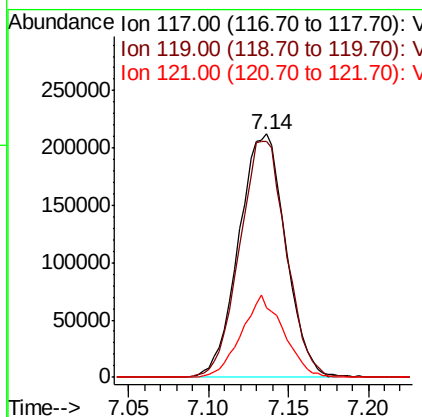
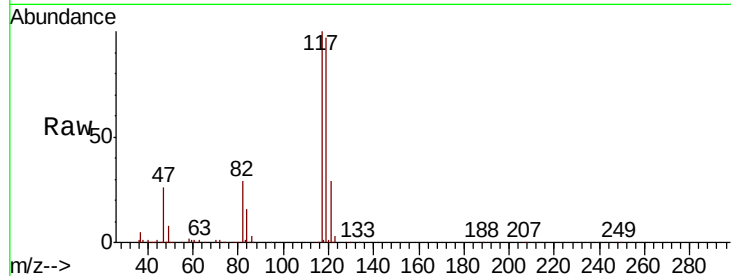
ClientSampleId :

VSTDIC002

Tgt	Ion:117	Resp:	426098
Ion	Ratio	Lower	Upper
117	100		
119	96.9	73.0	109.6
121	28.7	25.1	37.7

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#36

Benzene

Concen: 2.210 ppbv

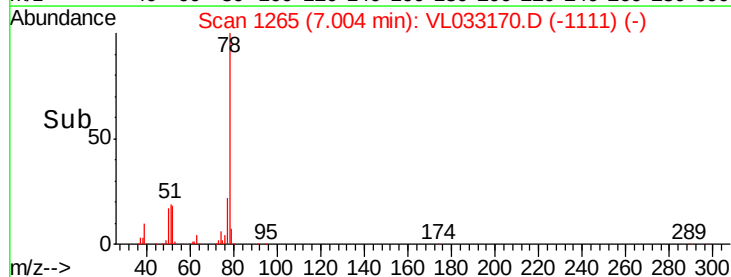
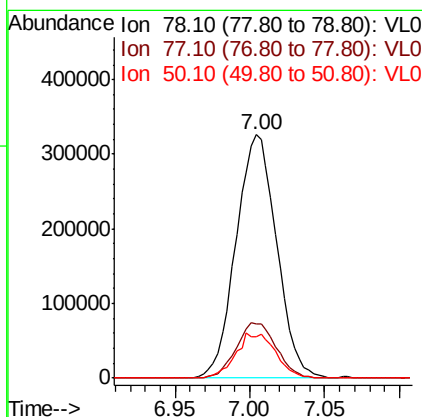
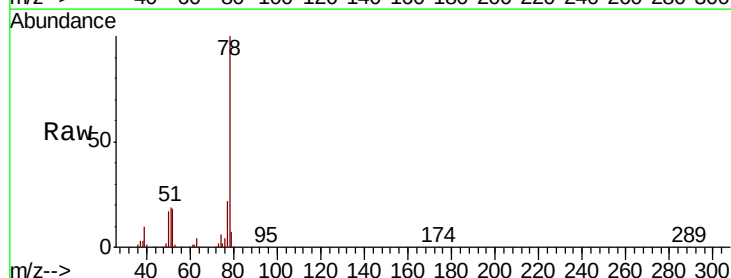
RT: 7.00 min Scan# 1265

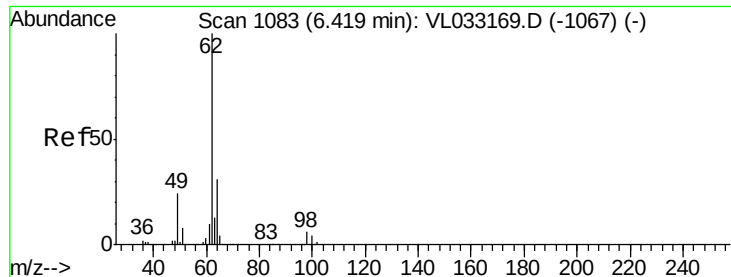
Delta R.T. -0.01 min

Lab File: VL033170.D

Acq: 6 Feb 2019 2:31

Tgt	Ion: 78	Resp:	612464
Ion	Ratio	Lower	Upper
78	100		
77	22.1	18.0	27.0
50	17.1	14.2	21.2





#37

1,2-Dichloroethane

Concen: 2.196 ppbv

RT: 6.41 min Scan# 1080

Delta R.T. -0.01 min

Lab File: VL033170.D

Acq: 6 Feb 2019 2:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 62 Resp: 337243

Ion Ratio Lower Upper

62 100

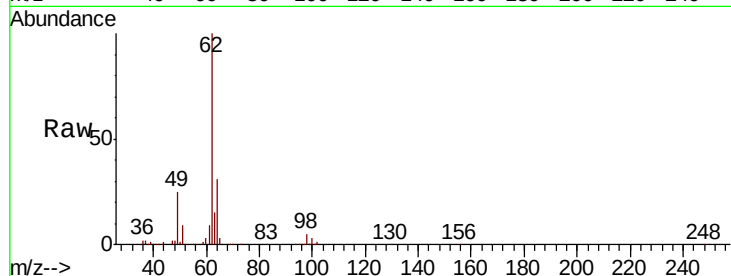
98 6.1 4.7 7.1

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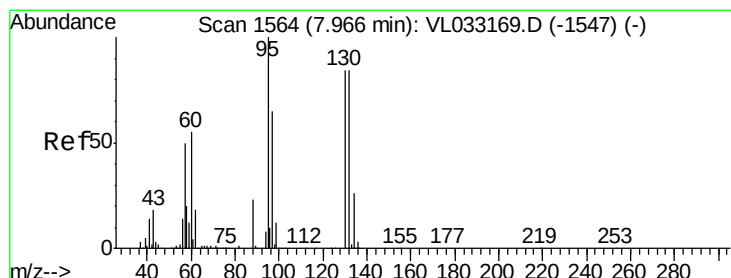
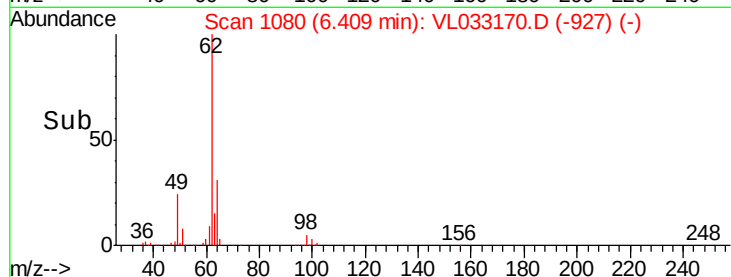
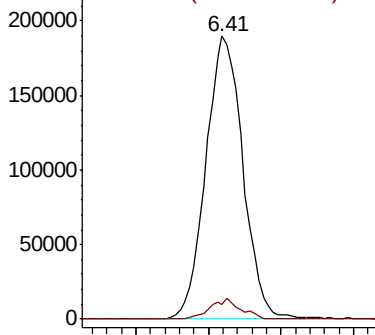
MMDadoda

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0



#38

Trichloroethene

Concen: 1.950 ppbv

RT: 7.96 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VL033170.D

Acq: 6 Feb 2019 2:31

Tgt Ion: 130 Resp: 231353

Ion Ratio Lower Upper

130 100

95 111.7 95.5 143.3

132 91.9 80.0 120.0

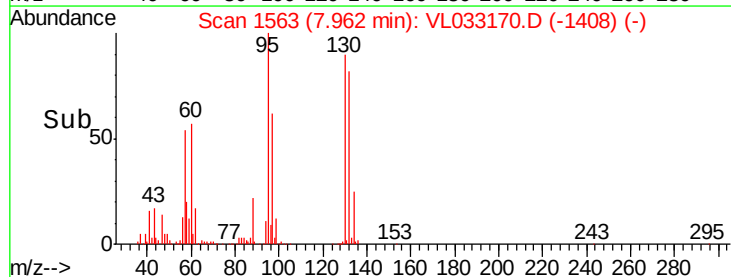
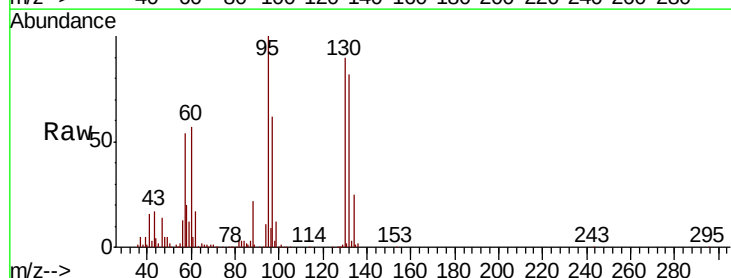
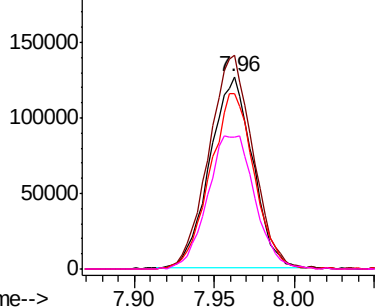
97 68.9 62.2 93.2

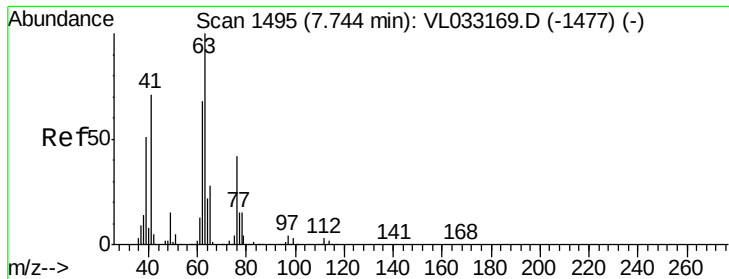
Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0





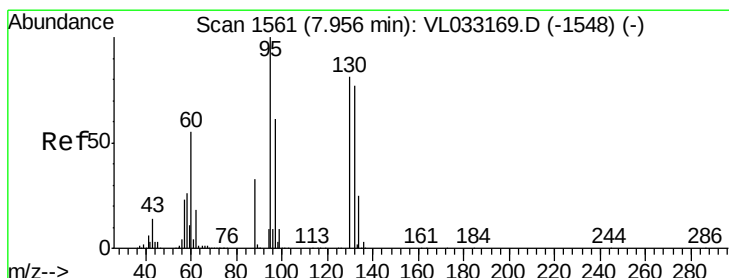
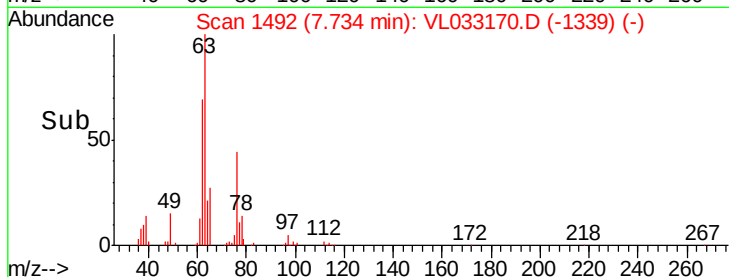
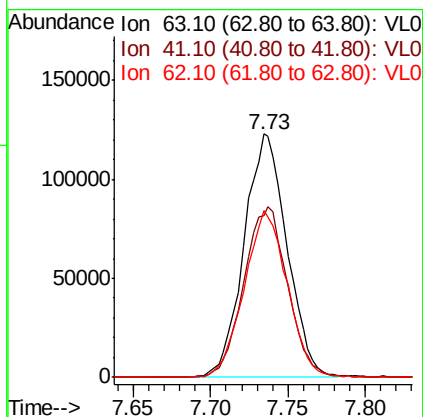
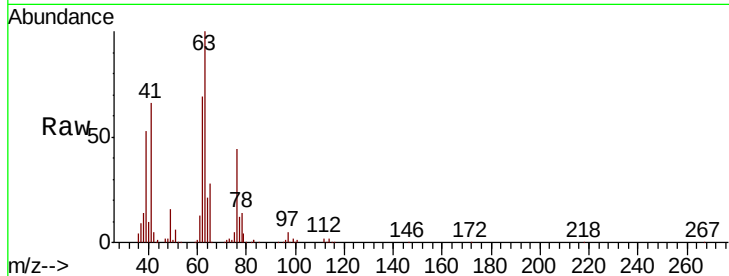
#39
 1,2-Dichloropropane
 Concen: 2.166 ppbv
 RT: 7.73 min Scan# 1492
 Delta R.T. -0.01 min
 Lab File: VL033170.D
 Acq: 6 Feb 2019 2:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion	Ratio	Resp	Lower	Upper
63	100	236997		
41	66.0	56.4	84.6	
62	68.5	54.2	81.4	

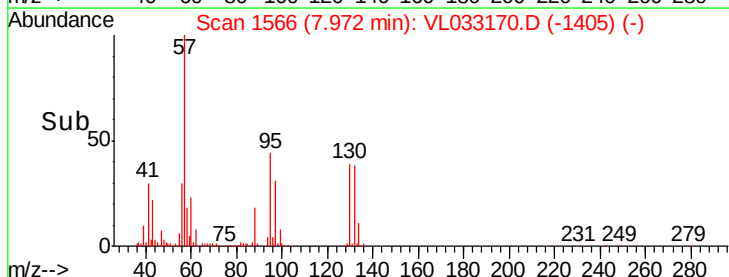
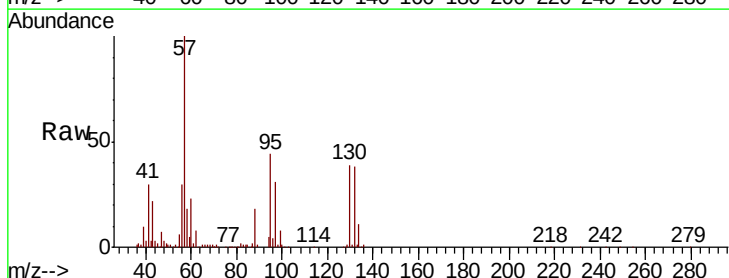
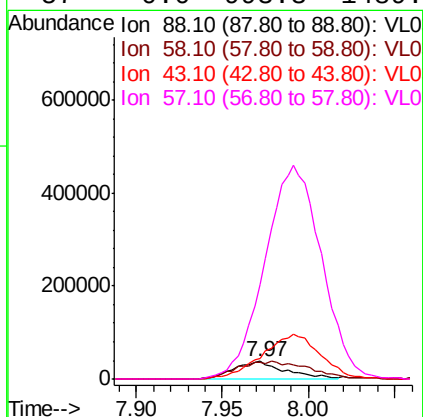
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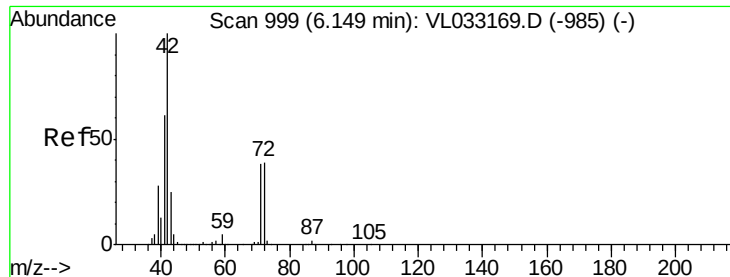
MMDadoda
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#40
 1,4-Dioxane
 Concen: 1.989 ppbv m
 RT: 7.97 min Scan# 1566
 Delta R.T. 0.02 min
 Lab File: VL033170.D
 Acq: 6 Feb 2019 2:31

Tgt Ion	Ratio	Resp	Lower	Upper
88	100	79106		
58	145.7	106.4	159.6	
43	0.0	219.6	329.4#	
57	0.0	993.3	1489.9#	





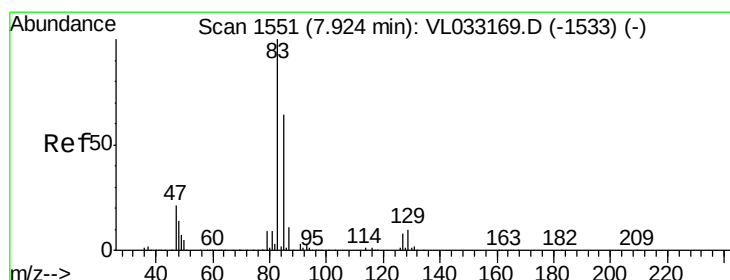
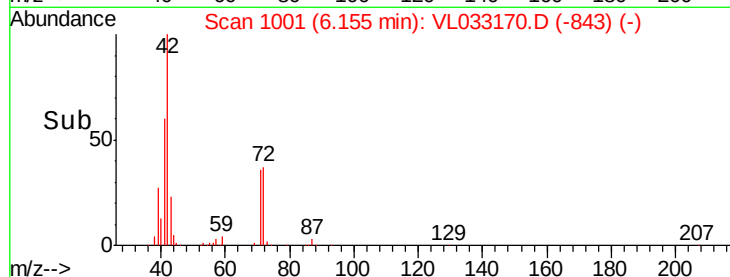
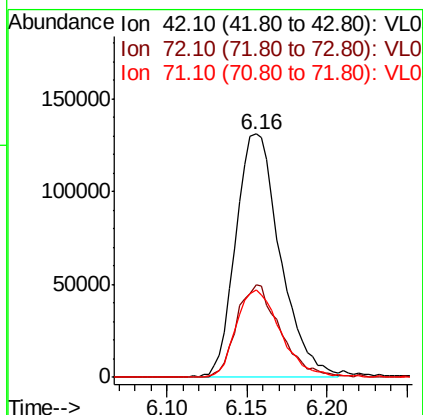
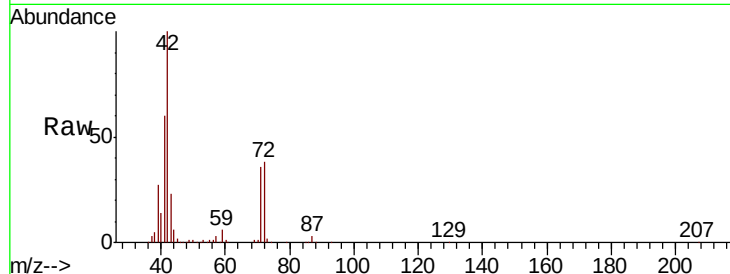
#41
Tetrahydrofuran
Concen: 2.314 ppbv
RT: 6.16 min Scan# 1001
Delta R.T. 0.01 min
Lab File: VL033170.D
Acq: 6 Feb 2019 2:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion	Ratio	Lower	Upper
42	100		
72	37.7	31.4	47.2
71	36.2	30.2	45.2

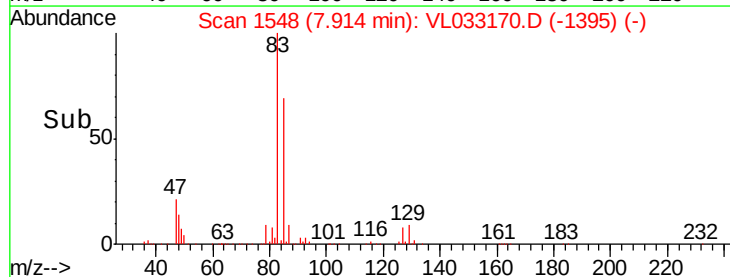
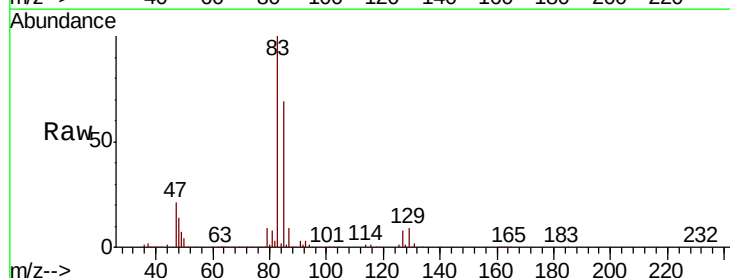
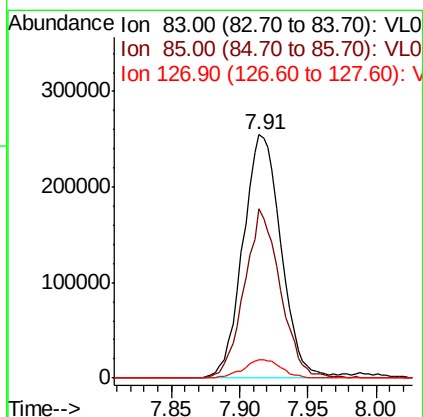
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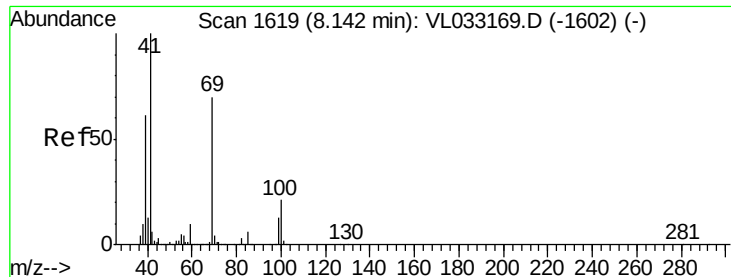
MMDadoda
2/20/2019 12:20:52 PM



#42
Bromodichloromethane
Concen: 2.221 ppbv
RT: 7.91 min Scan# 1548
Delta R.T. -0.01 min
Lab File: VL033170.D
Acq: 6 Feb 2019 2:31

Tgt Ion	Ratio	Lower	Upper
83	100		
85	69.4	51.1	76.7
127	7.7	6.4	9.6





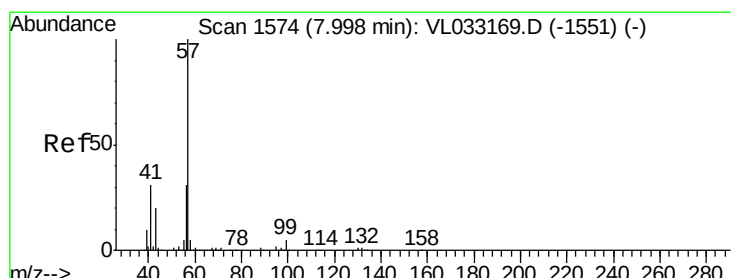
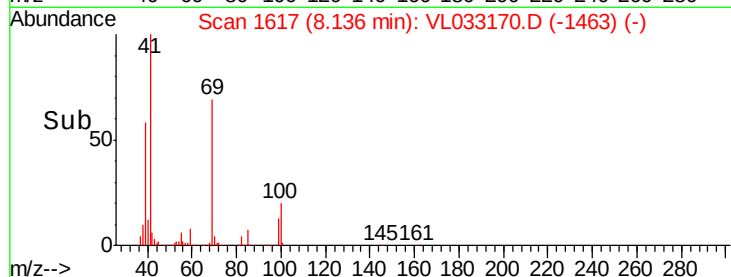
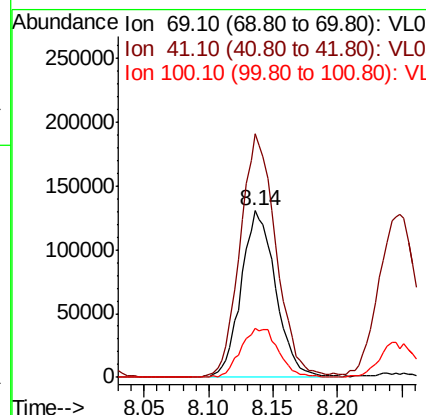
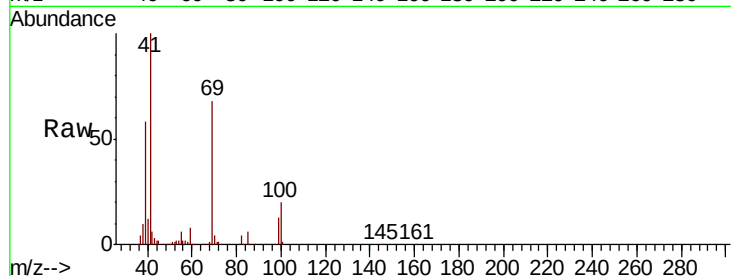
#43
Methyl Methacrylate
Concen: 2.195 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. -0.01 min
Lab File: VL033170.D
Acq: 6 Feb 2019 2:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion	Ratio	Lower	Upper
69	100		
41	150.0	117.1	175.7
100	31.9	25.0	37.6

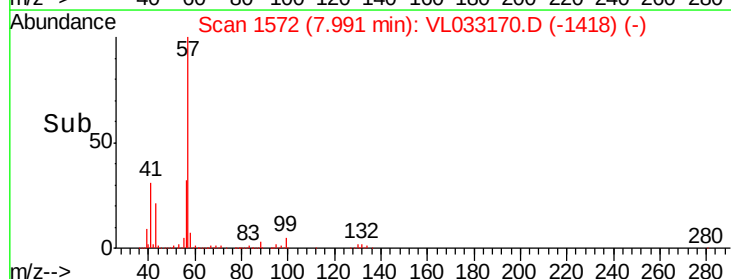
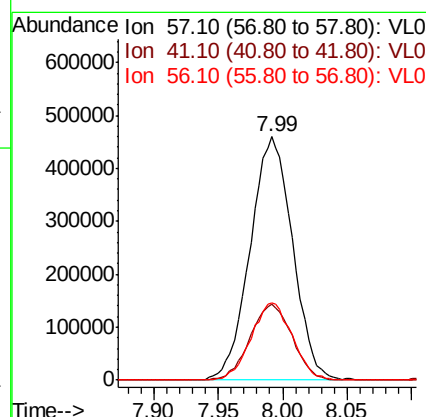
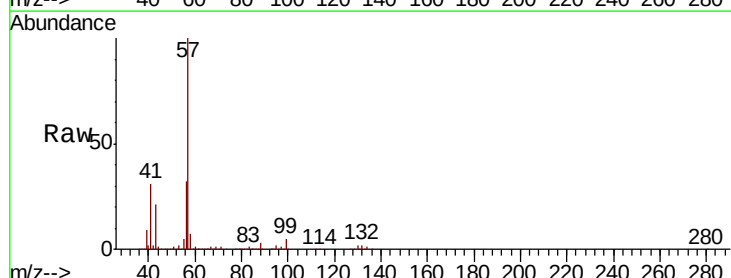
Manual Integrations
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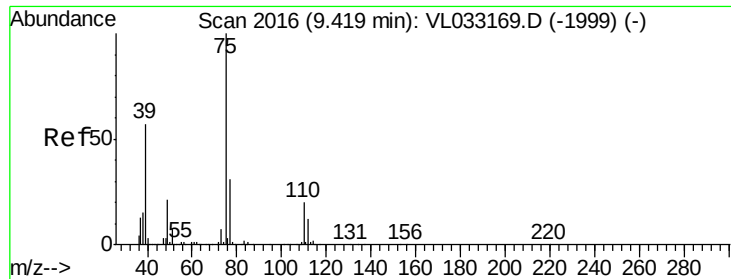
MMDadoda
2/20/2019 12:20:52 PM



#44
2,2,4-Trimethylpentane
Concen: 2.243 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. -0.01 min
Lab File: VL033170.D
Acq: 6 Feb 2019 2:31

Tgt Ion	Ratio	Lower	Upper
57	100		
41	31.1	25.2	37.8
56	30.9	24.5	36.7





#45

t-1,3-Dichloropropene

Concen: 2.208 ppbv

RT: 9.42 min Scan# 2015

Delta R.T. -0.00 min

Lab File: VL033170.D

Acq: 6 Feb 2019 2:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 75 Resp: 272832

Ion Ratio Lower Upper

75 100

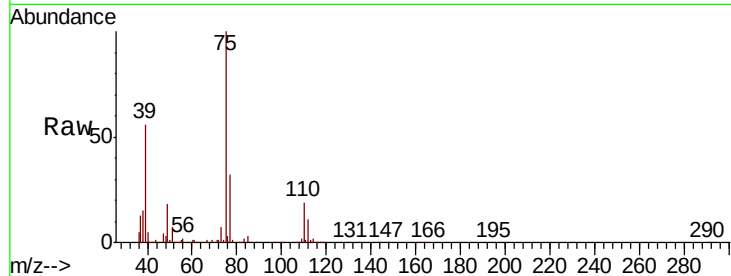
77 31.9 25.0 37.4

Manual Integrations

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MMDadoda

2/20/2019 12:20:52 PM



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

150000

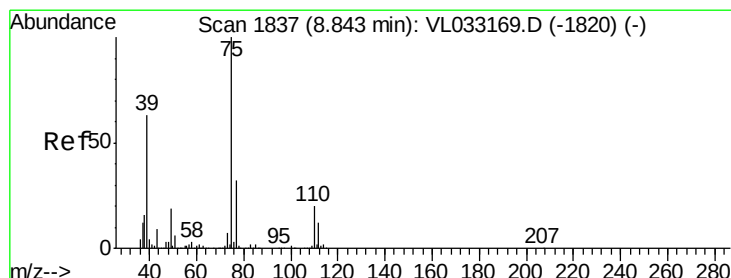
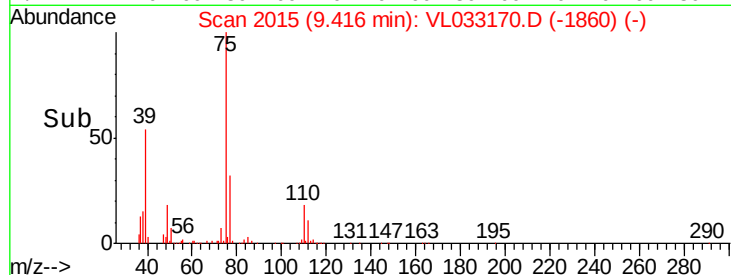
100000

50000

0

9.35 9.40 9.45

Time-->



#46

cis-1,3-Dichloropropene

Concen: 2.193 ppbv

RT: 8.84 min Scan# 1835

Delta R.T. -0.01 min

Lab File: VL033170.D

Acq: 6 Feb 2019 2:31

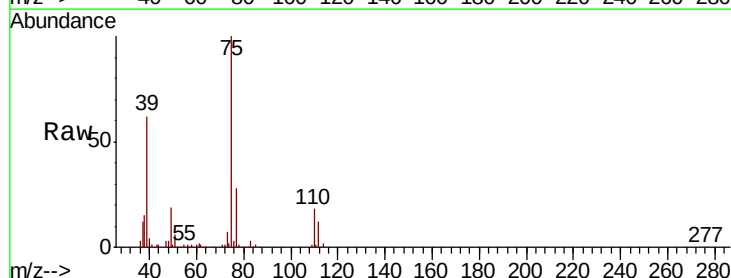
Tgt Ion: 75 Resp: 345272

Ion Ratio Lower Upper

75 100

39 61.7 50.1 75.1

77 27.9 25.4 38.2



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

250000

200000

150000

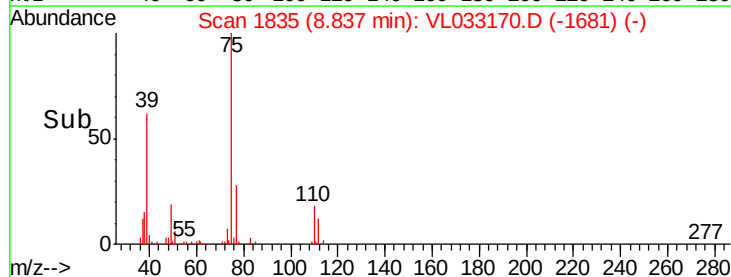
100000

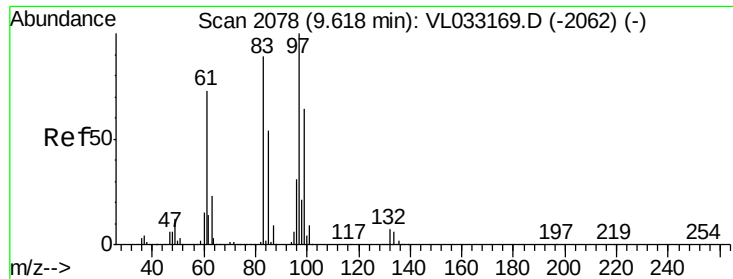
50000

0

8.75 8.80 8.85 8.90

Time-->





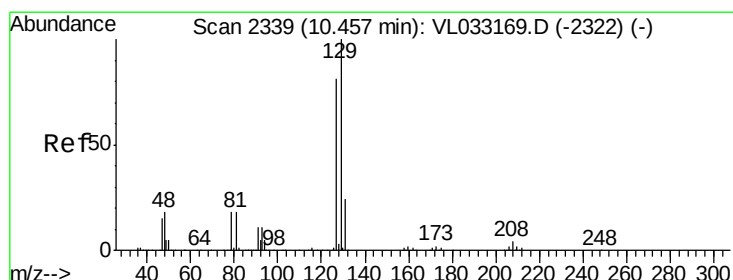
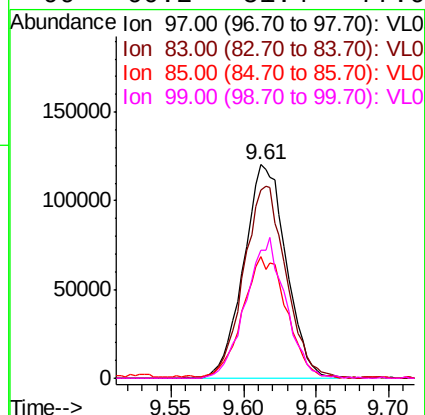
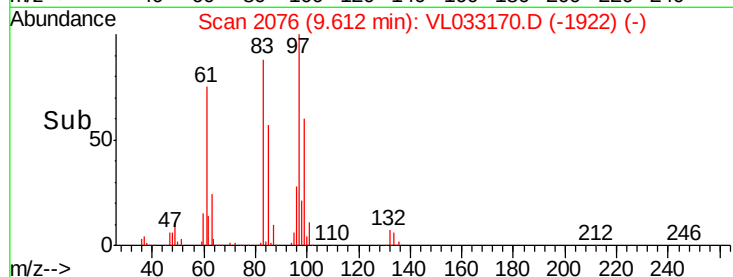
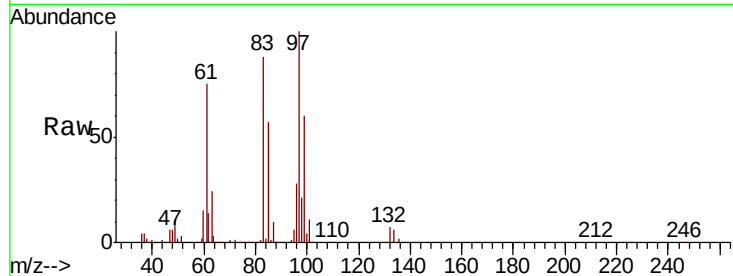
#47
 1,1,2-Trichloroethane
 Concen: 2.162 ppbv
 RT: 9.61 min Scan# 2076
 Delta R.T. -0.01 min
 Lab File: VL033170.D
 Acq: 6 Feb 2019 2:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion	Ratio	Lower	Upper
97	100		
83	88.2	71.4	107.2
85	56.7	43.5	65.3
99	60.2	51.4	77.0

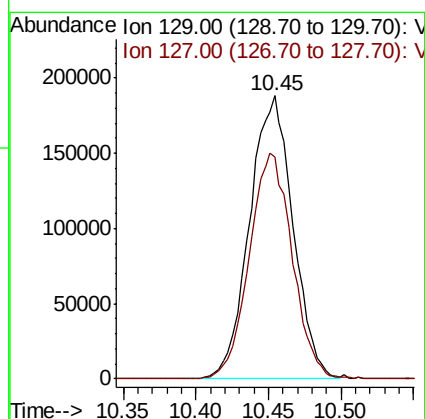
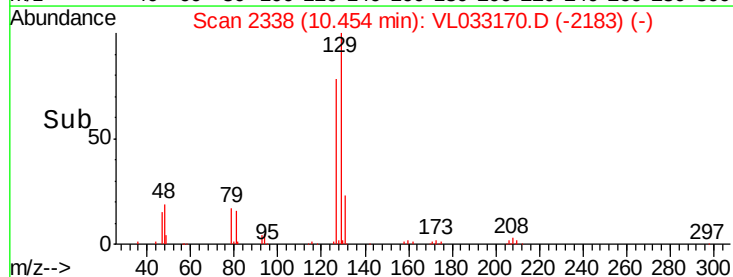
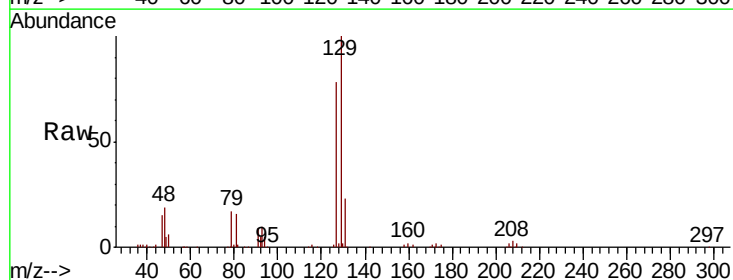
Manual Integrations
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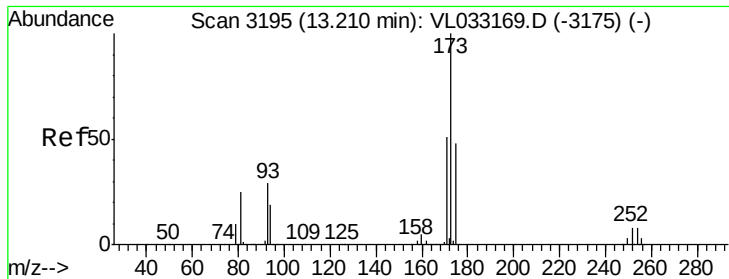
MMDadoda
 2/20/2019 12:20:52 PM



#48
 Dibromochloromethane
 Concen: 2.191 ppbv
 RT: 10.45 min Scan# 2338
 Delta R.T. -0.00 min
 Lab File: VL033170.D
 Acq: 6 Feb 2019 2:31

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.9	39.1	117.3





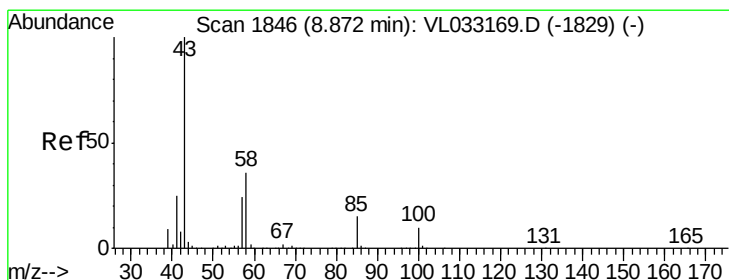
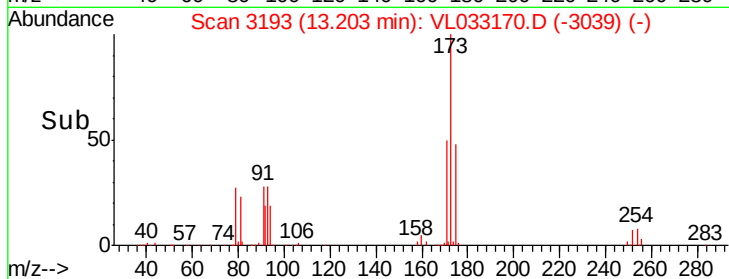
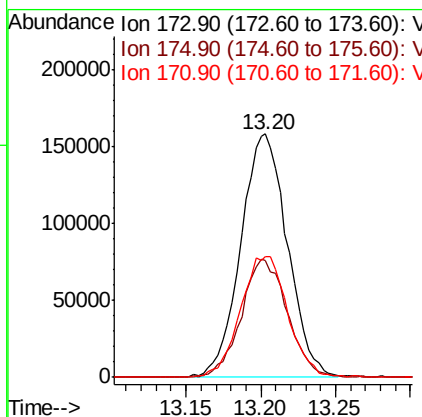
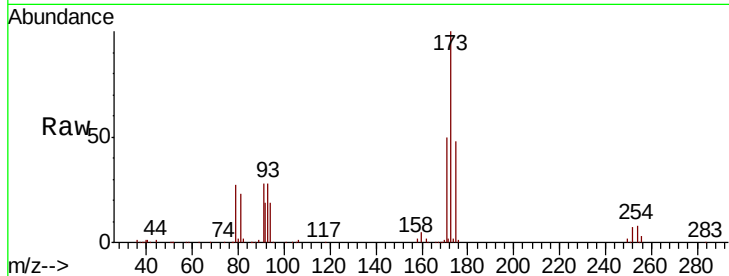
#49
Bromoform
Concen: 2.222 ppbv
RT: 13.20 min Scan# 3193
Delta R.T. -0.01 min
Lab File: VL033170.D
Acq: 6 Feb 2019 2:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.1	38.6	58.0
171	50.9	41.6	62.4

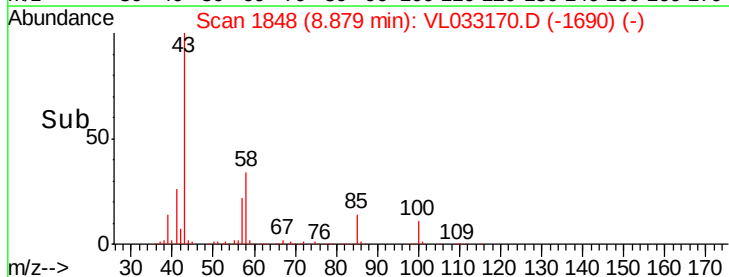
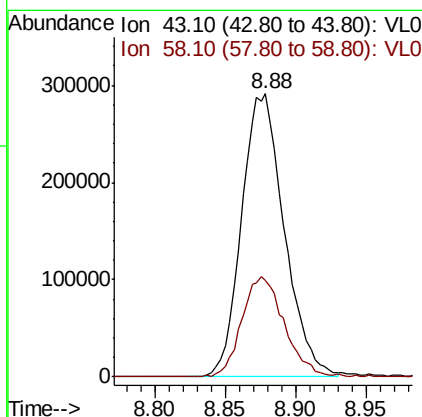
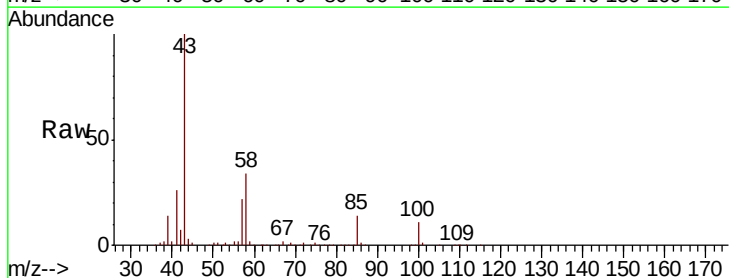
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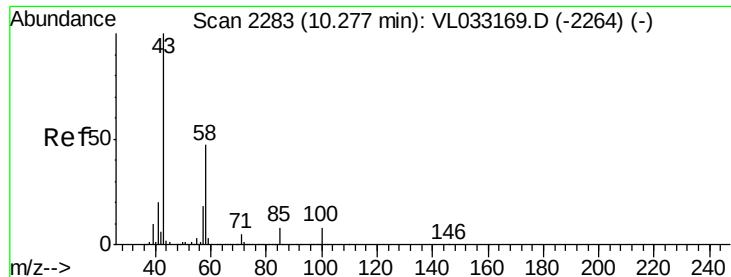
MMDadoda
2/20/2019 12:20:52 PM



#50
4-Methyl-2-Pentanone
Concen: 2.217 ppbv
RT: 8.88 min Scan# 1848
Delta R.T. 0.01 min
Lab File: VL033170.D
Acq: 6 Feb 2019 2:31

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.4	29.0	43.6





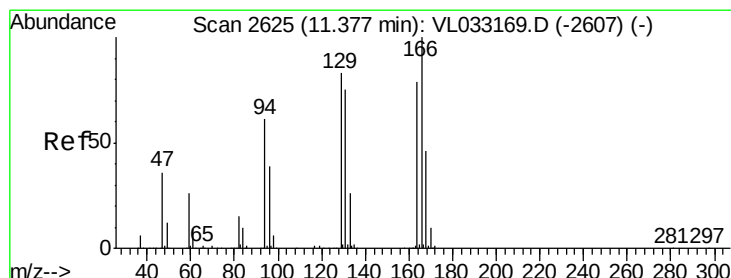
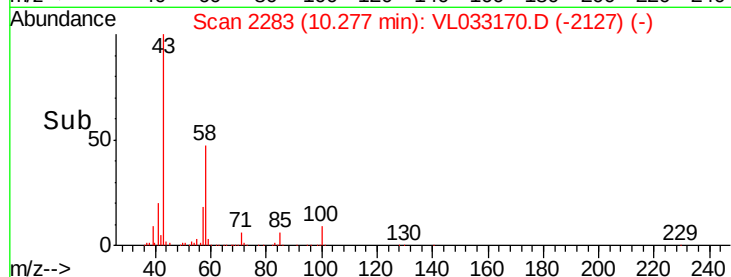
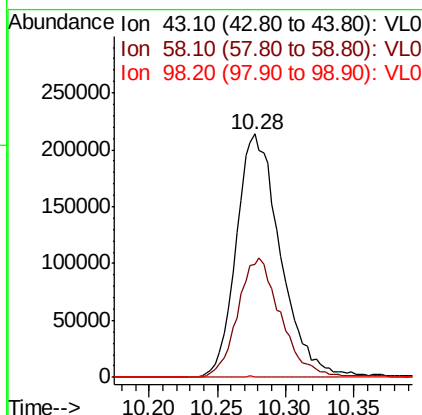
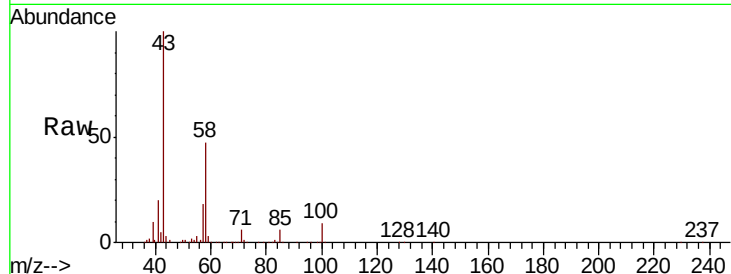
#51
2-Hexanone
Concen: 2.168 ppbv
RT: 10.28 min Scan# 2283
Delta R.T. 0.00 min
Lab File: VL033170.D
Acq: 6 Feb 2019 2:31

Instrument :
MSVOA_L
ClientSampled :
VSTDIC002

Tgt Ion	Ratio	Lower	Upper
43	100		
58	48.7	39.0	58.6
98	0.2	0.1	0.1#

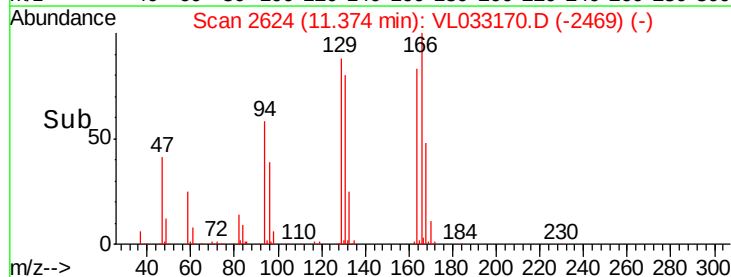
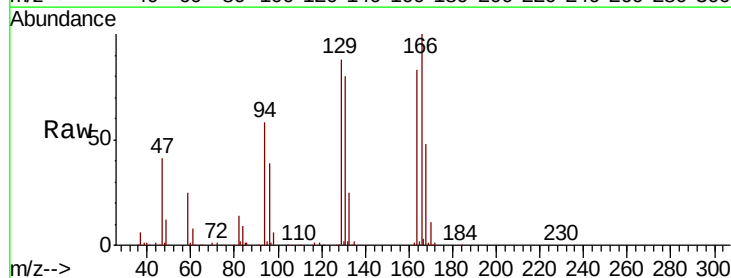
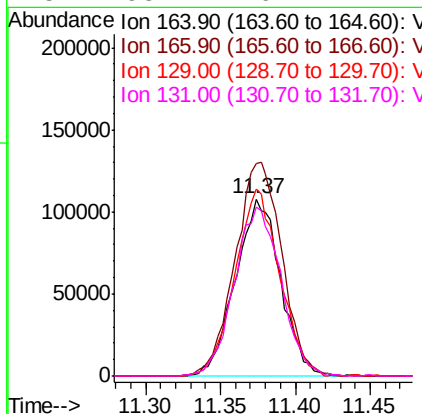
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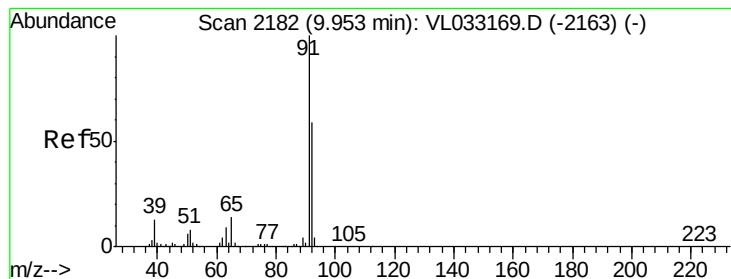
MMDadoda
2/20/2019 12:20:52 PM



#52
Tetrachloroethene
Concen: 2.118 ppbv
RT: 11.37 min Scan# 2624
Delta R.T. -0.00 min
Lab File: VL033170.D
Acq: 6 Feb 2019 2:31

Tgt Ion	Ratio	Lower	Upper
164	100		
166	119.4	100.9	151.3
129	105.5	83.9	125.9
131	95.2	76.2	114.2





#53

Toluene

Concen: 2.211 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.01 min

Lab File: VL033170.D

Acq: 6 Feb 2019 2:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 91 Resp: 725403

Ion Ratio Lower Upper

91 100

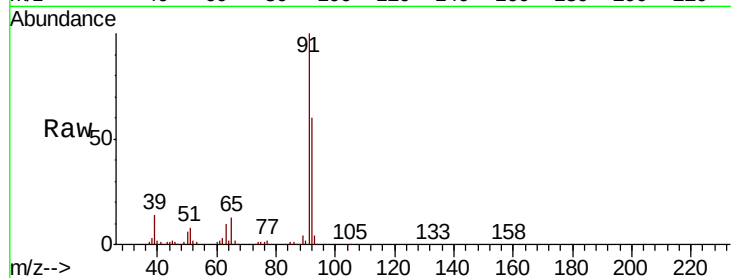
92 58.5 48.0 72.0

Manual Integrations

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MMDadoda

2/20/2019 12:20:52 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.95

400000

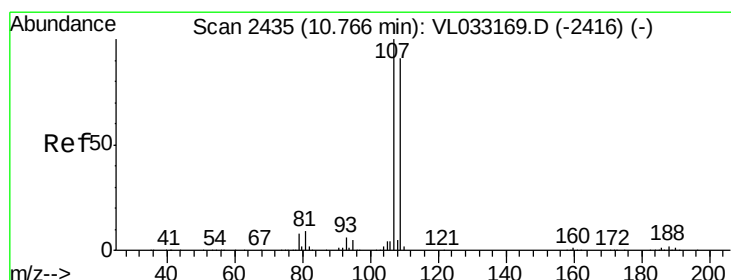
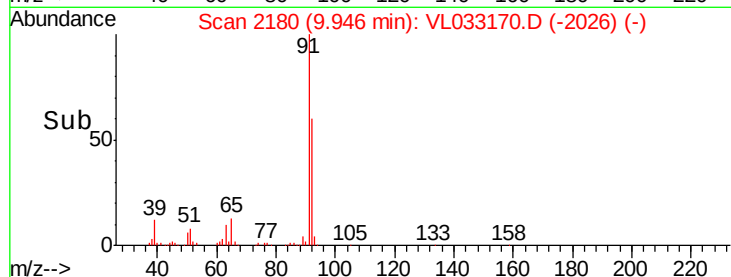
300000

200000

100000

0

Time-->



#54

1,2-Dibromoethane

Concen: 2.153 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. -0.01 min

Lab File: VL033170.D

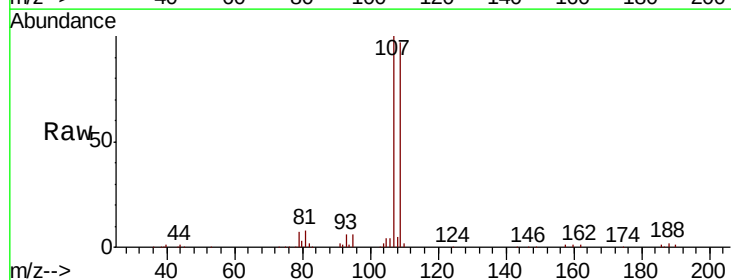
Acq: 6 Feb 2019 2:31

Tgt Ion: 107 Resp: 383461

Ion Ratio Lower Upper

107 100

109 97.3 73.2 109.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

10.76

200000

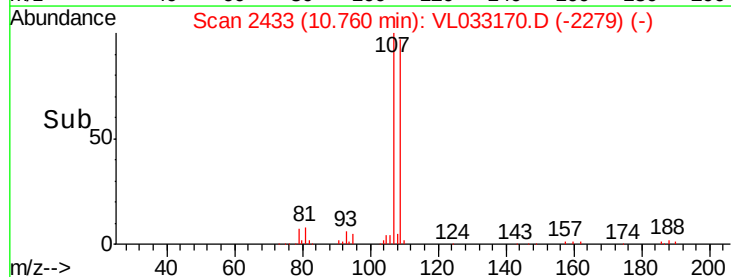
150000

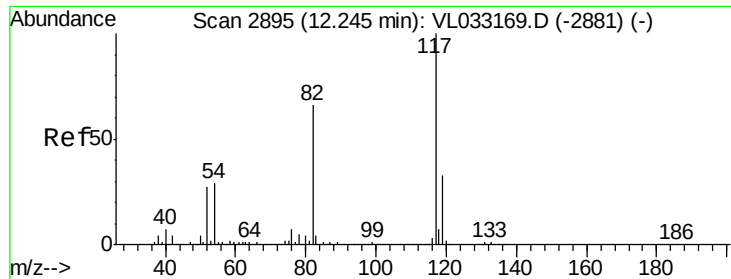
100000

50000

0

Time-->





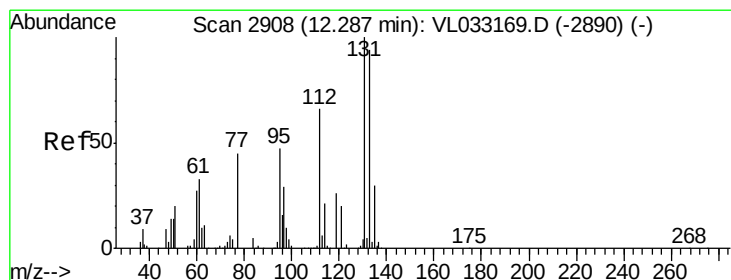
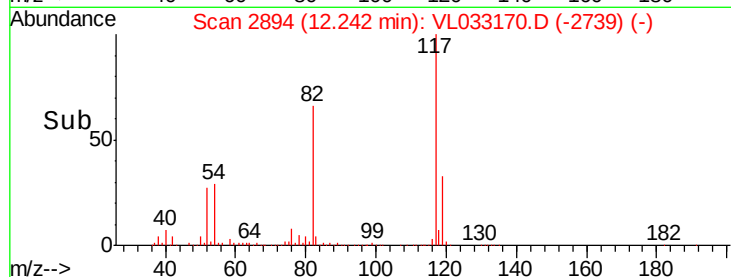
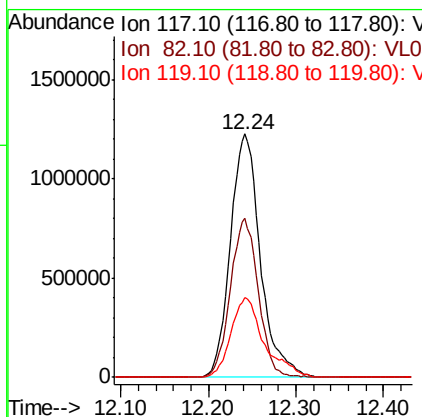
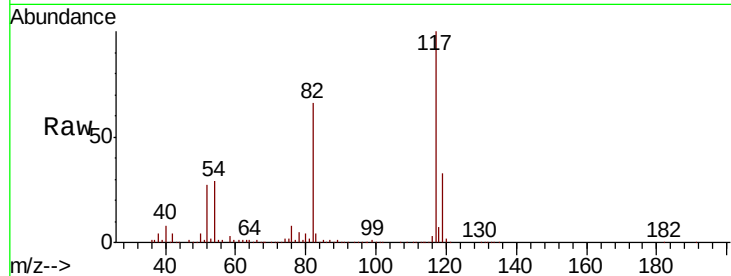
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL033170.D
Acq: 6 Feb 2019 2:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion	Ratio	Lower	Upper
117	100		
82	60.9	53.8	80.8
119	36.3	46.9	70.3#

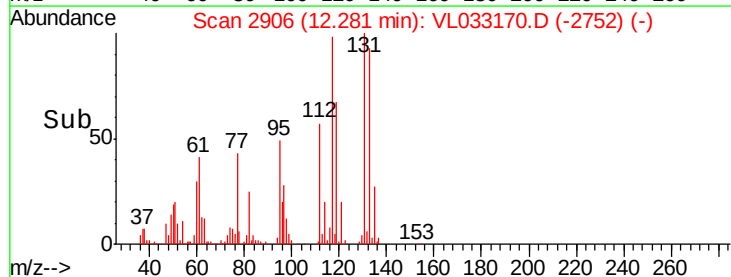
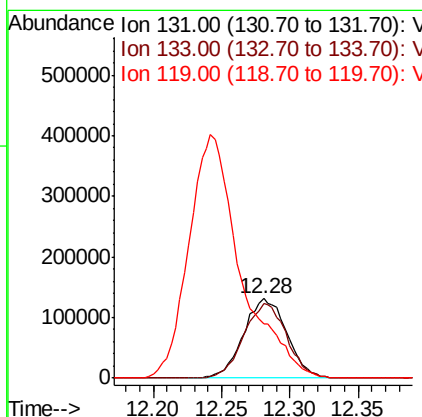
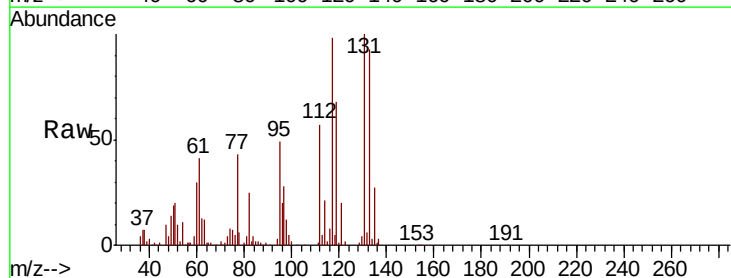
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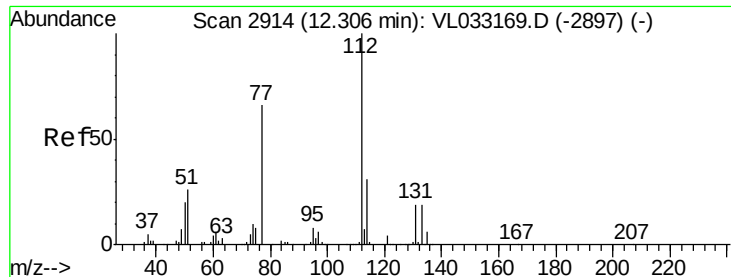
MMDadoda
2/20/2019 12:20:52 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 2.126 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. -0.01 min
Lab File: VL033170.D
Acq: 6 Feb 2019 2:31

Tgt Ion	Ratio	Lower	Upper
131	100		
133	93.4	75.8	113.6
119	366.1	48.1	72.1#





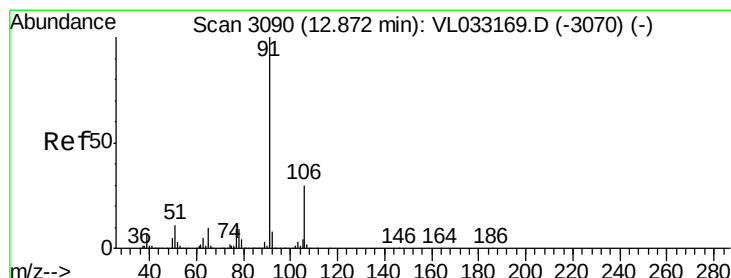
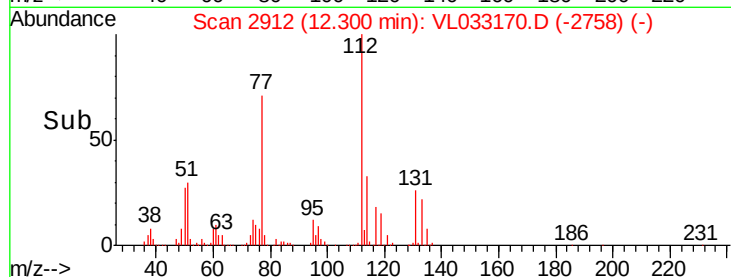
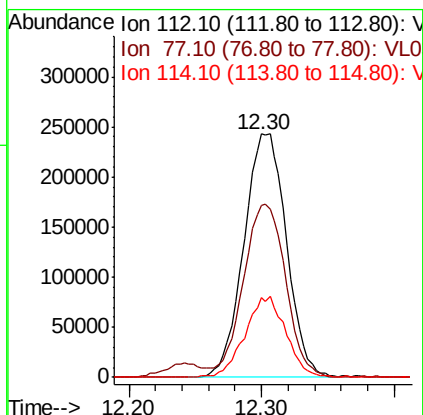
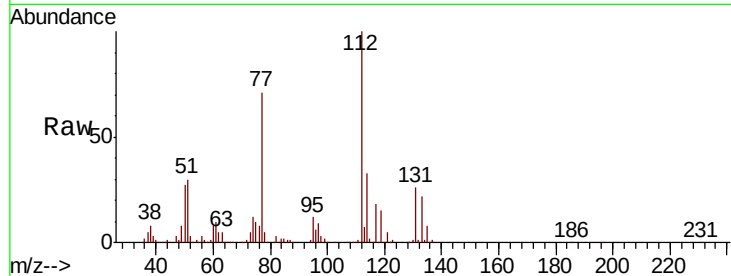
#57
Chlorobenzene
Concen: 2.101 ppbv
RT: 12.30 min Scan# 2912
Delta R.T. -0.01 min
Lab File: VL033170.D
Acq: 6 Feb 2019 2:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion	Ratio	Lower	Upper
112	100		
77	70.5	54.0	81.0
114	32.7	27.9	34.1

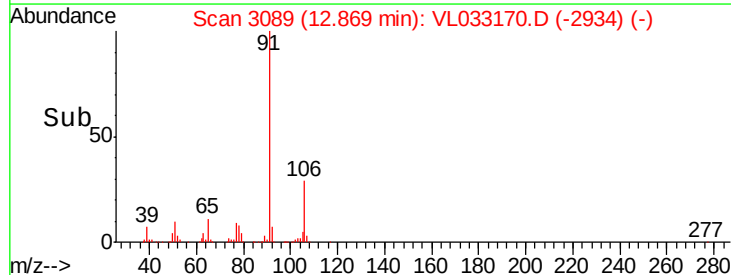
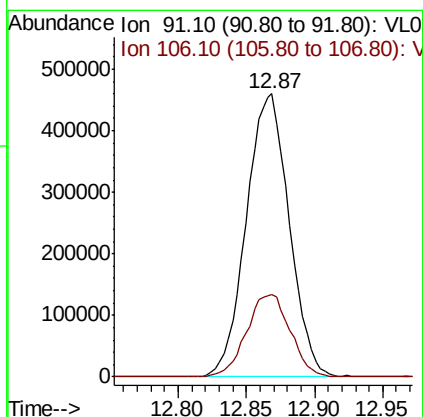
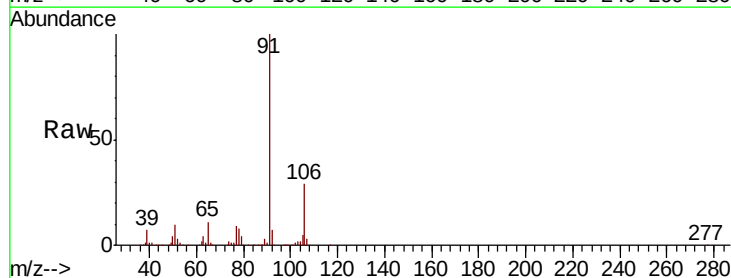
Manual Integrations
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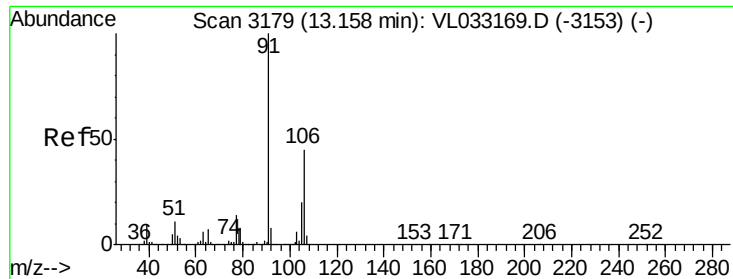
MMDadoda
2/20/2019 12:20:52 PM



#58
Ethyl Benzene
Concen: 2.091 ppbv
RT: 12.87 min Scan# 3089
Delta R.T. -0.00 min
Lab File: VL033170.D
Acq: 6 Feb 2019 2:31

Tgt Ion	Ratio	Lower	Upper
91	100		
106	28.9	23.8	35.8





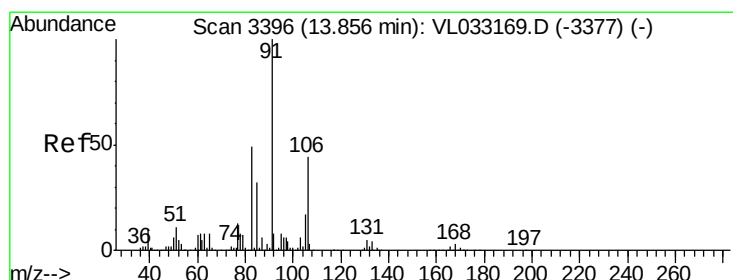
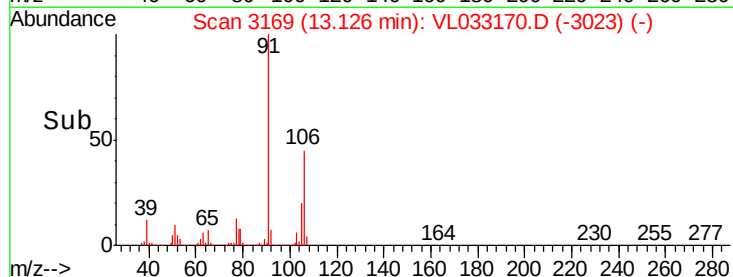
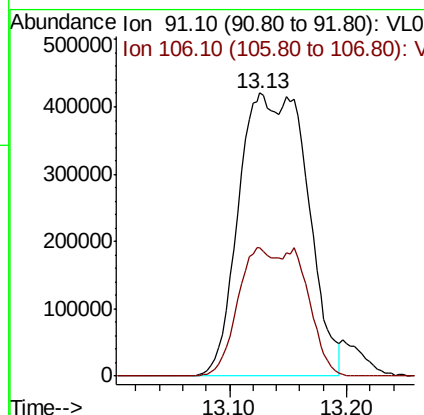
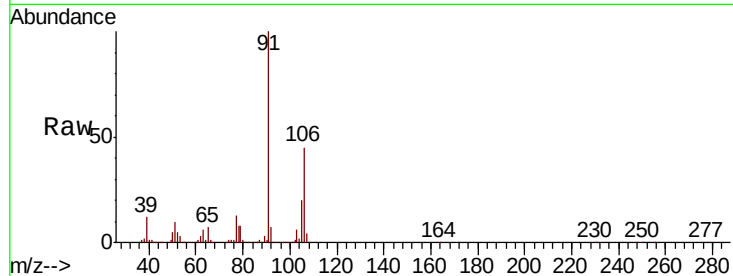
#59
m/p-Xylene
Concen: 4.261 ppbv m
RT: 13.13 min Scan# 3169
Delta R.T. -0.03 min
Lab File: VL033170.D
Acq: 6 Feb 2019 2:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion: 91 Resp: 1699139
Ion Ratio Lower Upper
91 100
106 0.0 36.6 55.0#

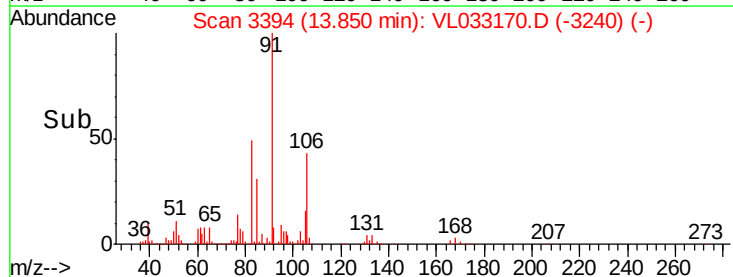
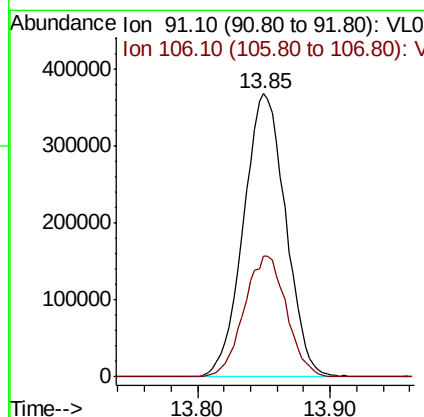
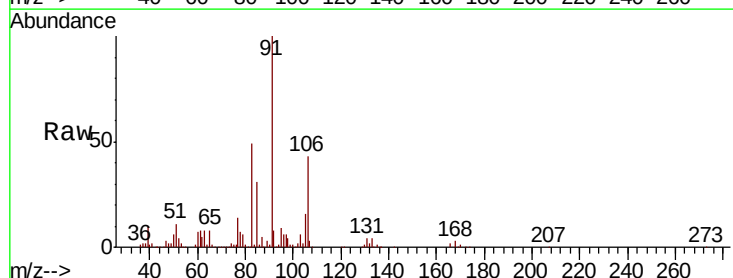
Manual Integrations
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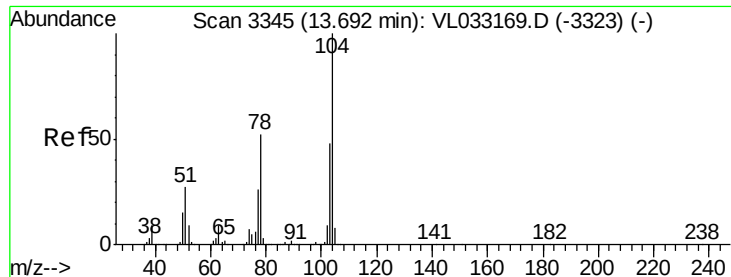
MMDadoda
2/20/2019 12:20:52 PM



#60
o-Xylene
Concen: 2.089 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. -0.01 min
Lab File: VL033170.D
Acq: 6 Feb 2019 2:31

Tgt Ion: 91 Resp: 812324
Ion Ratio Lower Upper
91 100
106 43.2 21.8 65.3





#61

Styrene

Concen: 2.114 ppbv

RT: 13.69 min Scan# 3343

Delta R.T. -0.01 min

Lab File: VL033170.D

Acq: 6 Feb 2019 2:31

Instrument :

MSVOA_L

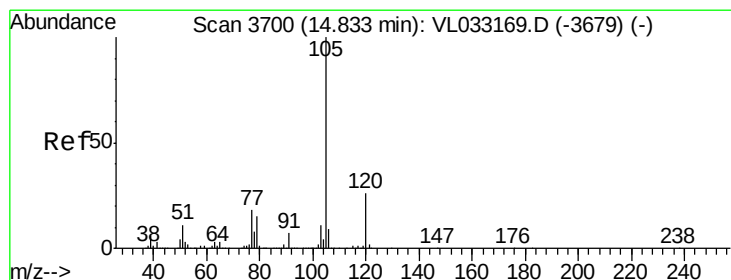
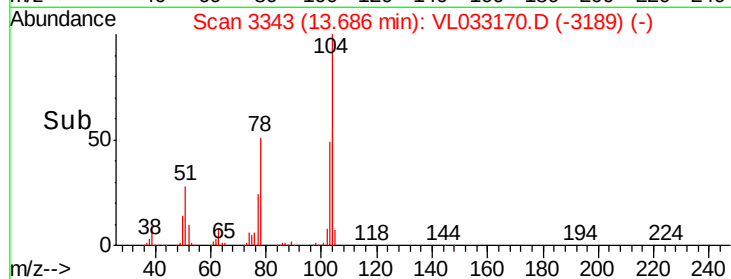
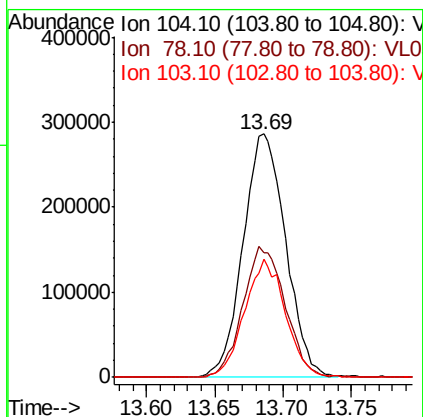
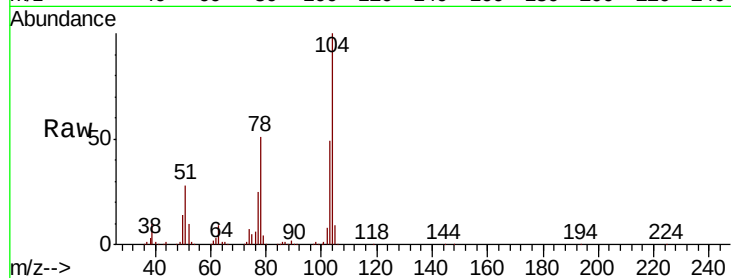
ClientSampleId :

VSTDIC002

Tgt Ion:	104	Resp:	620688
Ion Ratio	Lower	Upper	
104	100		
78	53.4	41.9	62.9
103	46.6	37.9	56.9

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#62

Isopropylbenzene

Concen: 2.085 ppbv

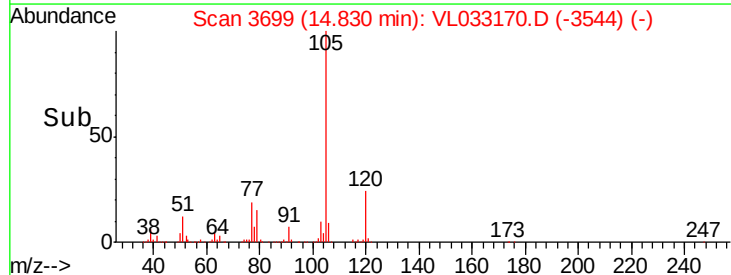
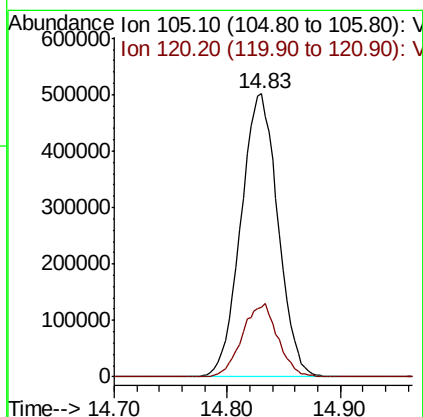
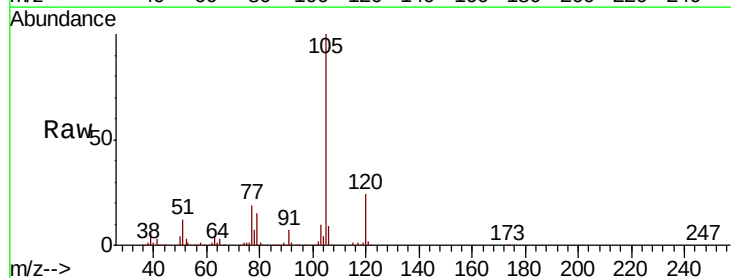
RT: 14.83 min Scan# 3699

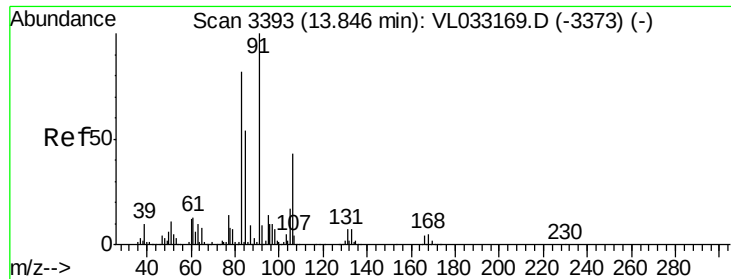
Delta R.T. -0.00 min

Lab File: VL033170.D

Acq: 6 Feb 2019 2:31

Tgt Ion:	105	Resp:	1143792
Ion Ratio	Lower	Upper	
105	100		
120	24.8	20.3	30.5





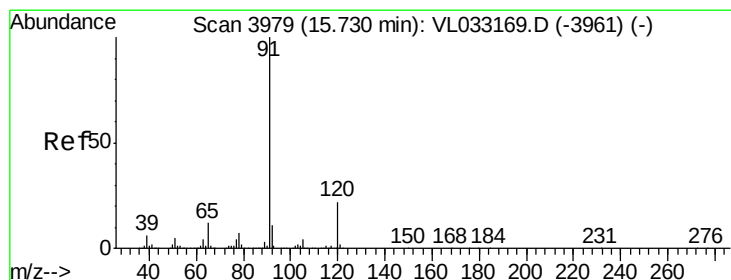
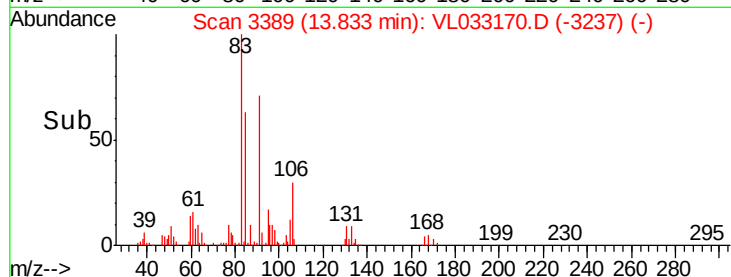
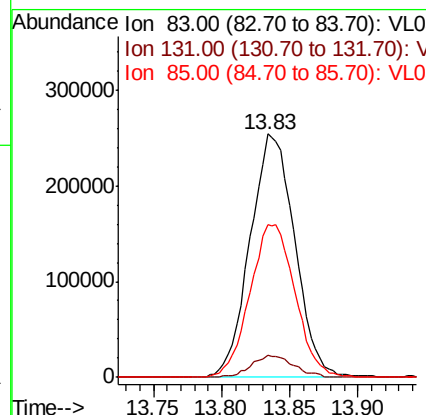
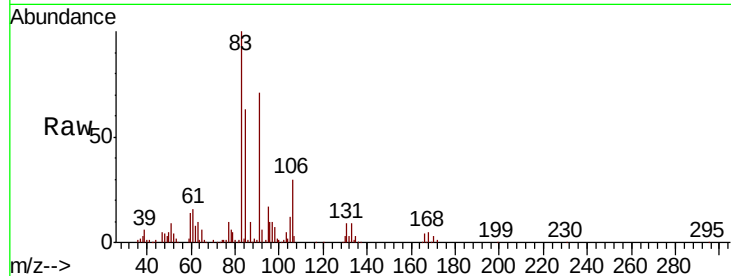
#63
 1,1,2,2-Tetrachloroethane
 Concen: 1.898 ppbv
 RT: 13.83 min Scan# 3389
 Delta R.T. -0.01 min
 Lab File: VL033170.D
 Acq: 6 Feb 2019 2:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion	Ratio	Lower	Upper
83	100		
131	8.6	4.8	14.3
85	63.6	32.8	98.3

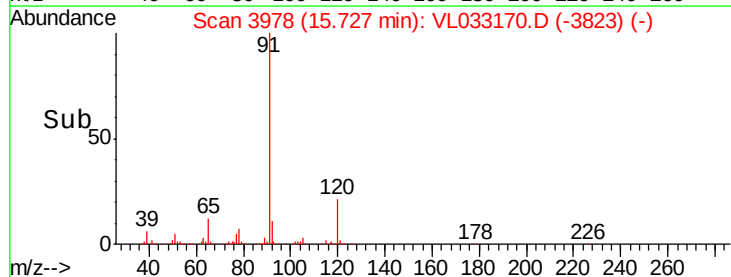
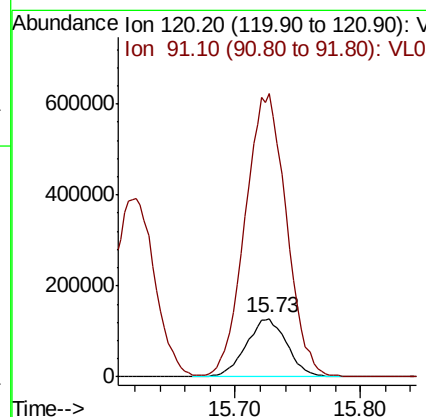
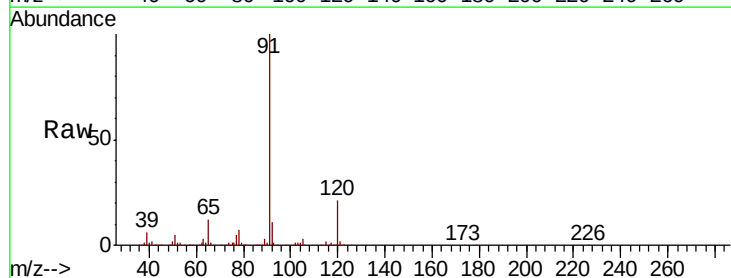
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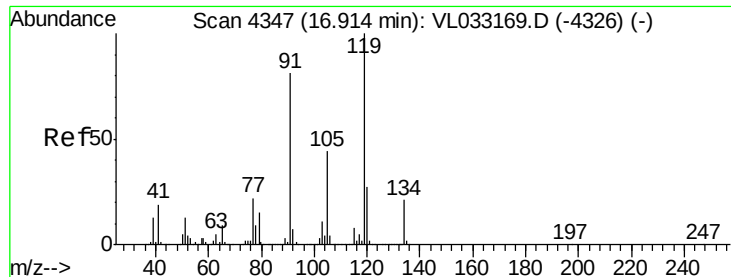
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#64
 n-propylbenzene
 Concen: 2.071 ppbv
 RT: 15.73 min Scan# 3978
 Delta R.T. -0.00 min
 Lab File: VL033170.D
 Acq: 6 Feb 2019 2:31

Tgt Ion	Ratio	Lower	Upper
120	100		
91	494.5	383.9	575.9





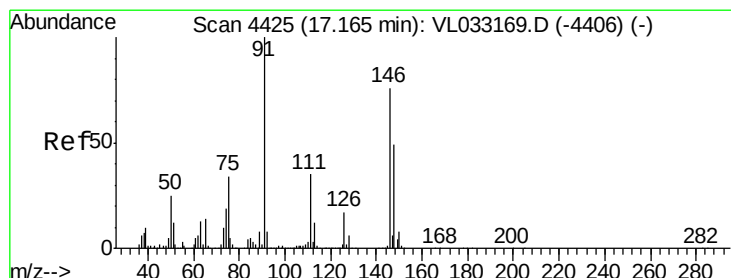
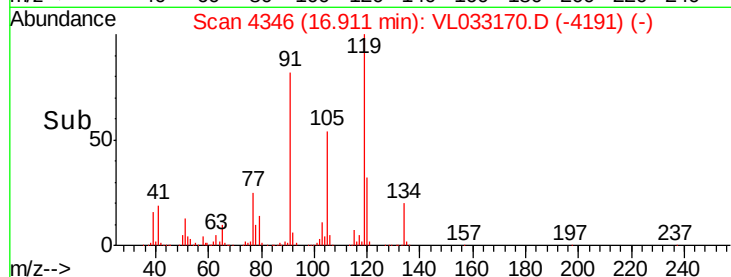
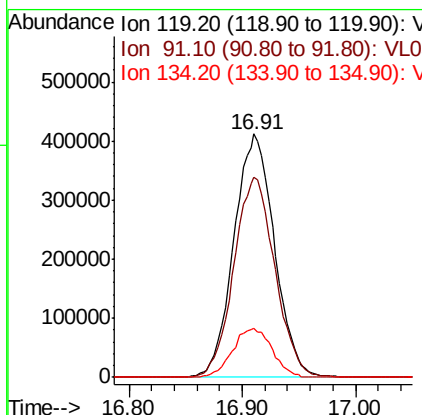
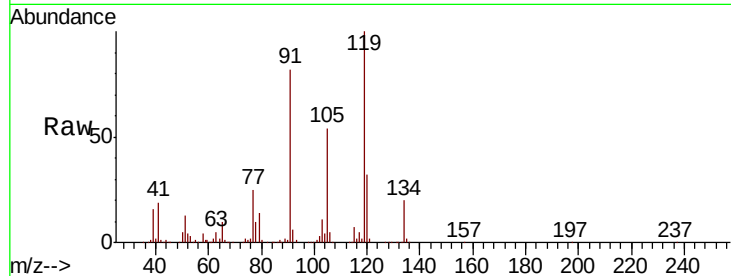
#65
 tert-Butylbenzene
 Concen: 2.138 ppbv
 RT: 16.91 min Scan# 4346
 Delta R.T. -0.00 min
 Lab File: VL033170.D
 Acq: 6 Feb 2019 2:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion: 119 Resp: 1021480
 Ion Ratio Lower Upper
 119 100
 91 83.9 65.6 98.4
 134 19.7 15.8 23.8

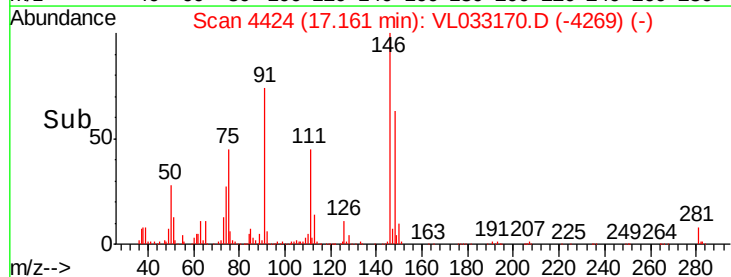
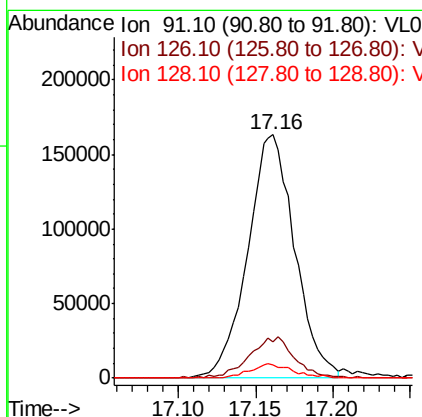
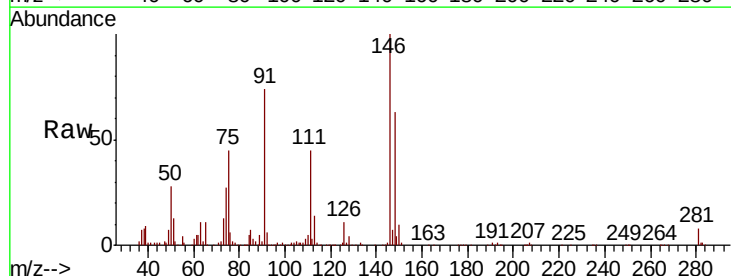
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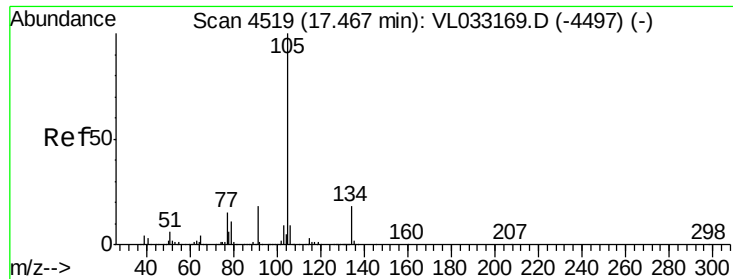
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#66
 Benzyl Chloride
 Concen: 2.015 ppbv
 RT: 17.16 min Scan# 4424
 Delta R.T. -0.00 min
 Lab File: VL033170.D
 Acq: 6 Feb 2019 2:31

Tgt Ion: 91 Resp: 344000
 Ion Ratio Lower Upper
 91 100
 126 16.5 13.8 20.6
 128 5.4 4.5 6.7





#67

sec-Butylbenzene

Concen: 2.147 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. -0.01 min

Lab File: VL033170.D

Acq: 6 Feb 2019 2:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 105 Resp: 1489211

Ion Ratio Lower Upper

105 100

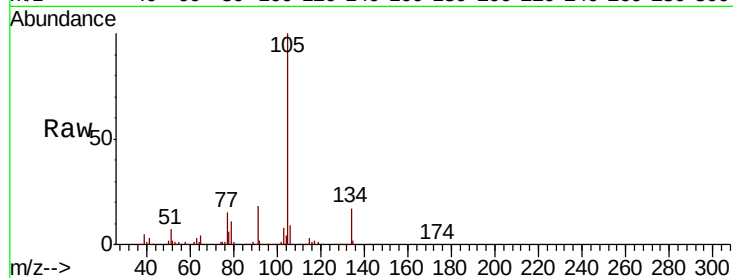
134 17.5 14.6 22.0

Manual Integrations

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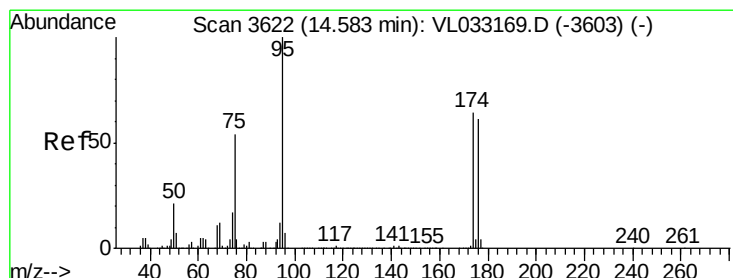
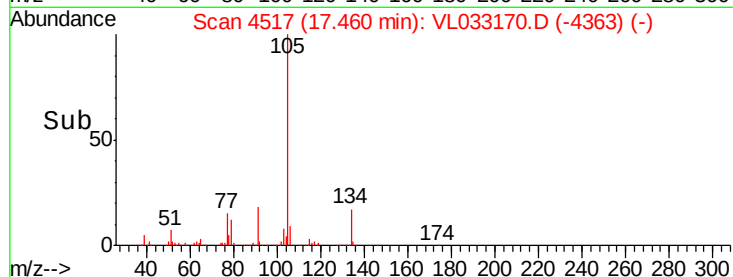
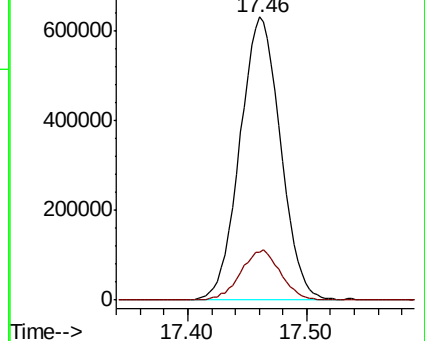
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.393 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.00 min

Lab File: VL033170.D

Acq: 6 Feb 2019 2:31

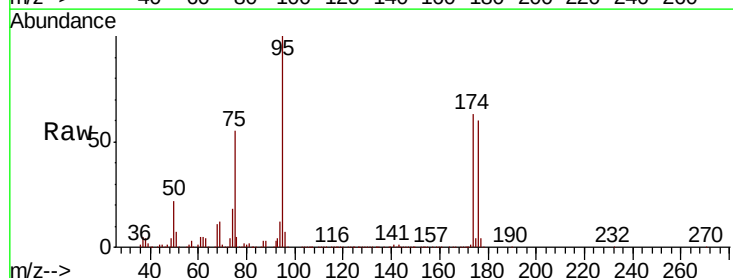
Tgt Ion: 95 Resp: 2137811

Ion Ratio Lower Upper

95 100

174 63.7 51.1 76.7

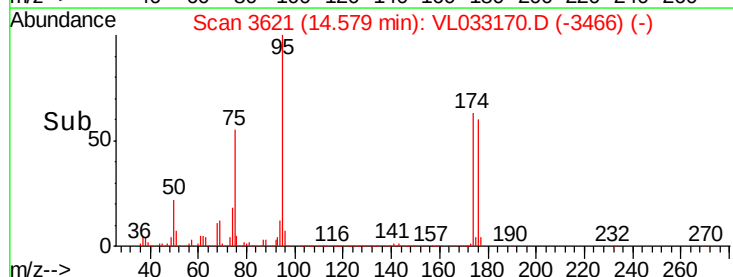
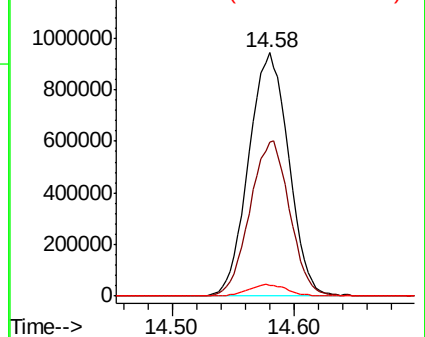
175 4.7 3.8 5.6

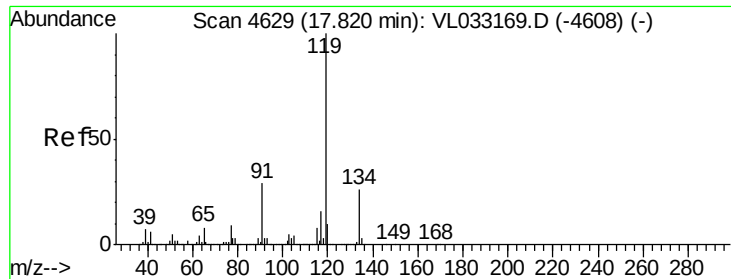


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





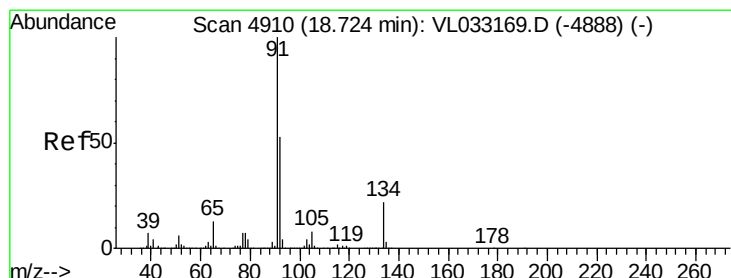
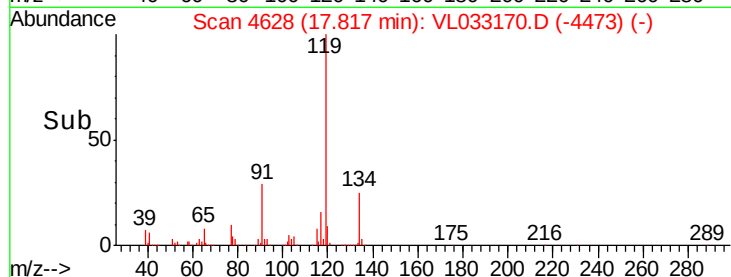
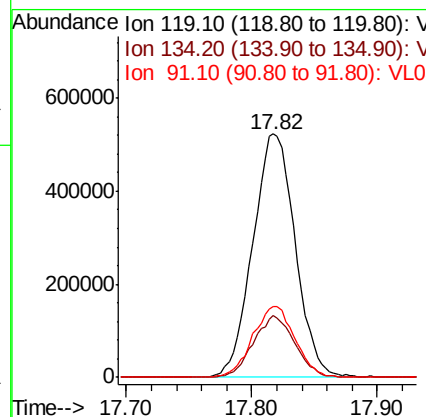
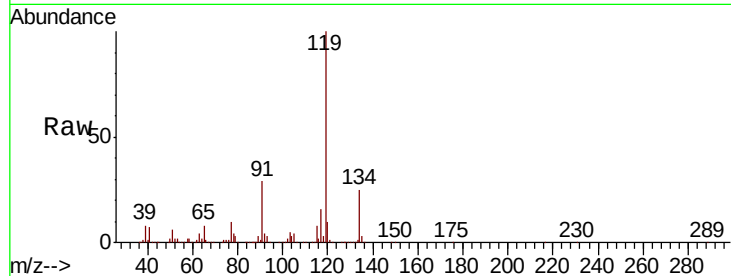
#69
 p-Isopropyltoluene
 Concen: 2.121 ppbv
 RT: 17.82 min Scan# 4628
 Delta R.T. -0.00 min
 Lab File: VL033170.D
 Acq: 6 Feb 2019 2:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.9	20.4	30.6
91	28.8	23.4	35.0

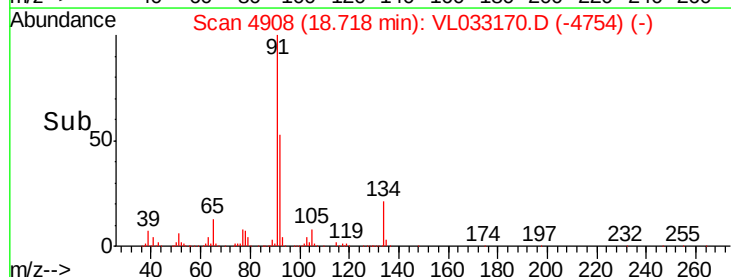
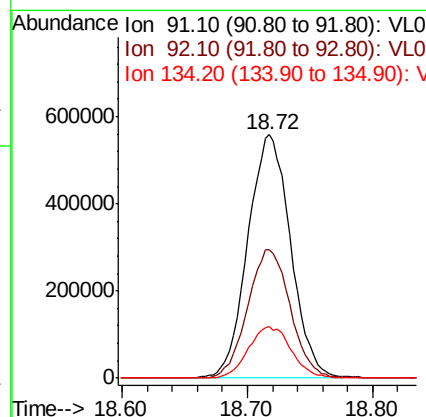
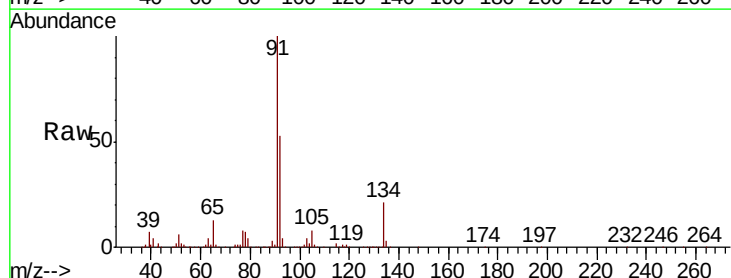
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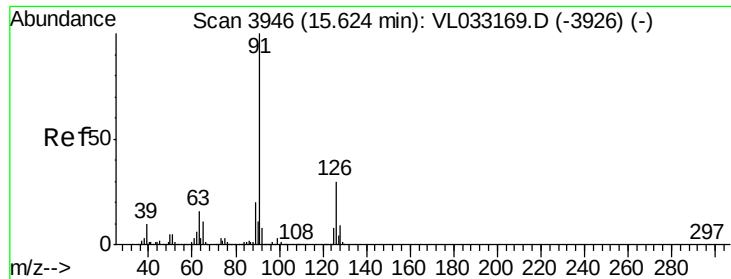
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#70
 n-Butylbenzene
 Concen: 2.105 ppbv
 RT: 18.72 min Scan# 4908
 Delta R.T. -0.01 min
 Lab File: VL033170.D
 Acq: 6 Feb 2019 2:31

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.2	43.0	64.4
134	21.2	17.5	26.3





#71

2-Chlorotoluene

Concen: 2.102 ppbv

RT: 15.62 min Scan# 3945

Delta R.T. -0.00 min

Lab File: VL033170.D

Acq: 6 Feb 2019 2:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC002

Tgt Ion: 91 Resp: 906082

Ion Ratio Lower Upper

91 100

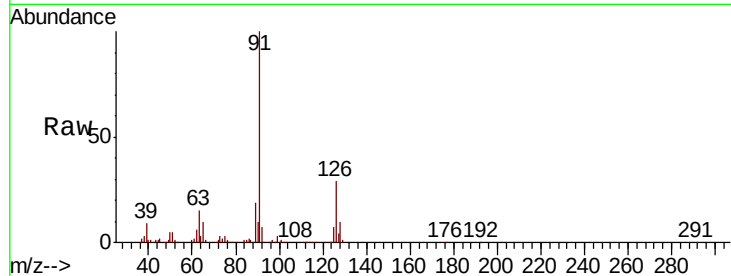
126 29.2 11.8 47.4

Manual Integrations

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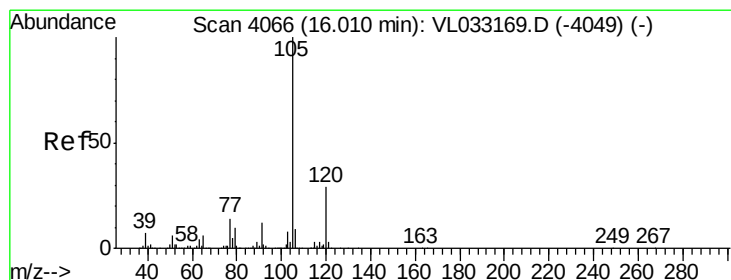
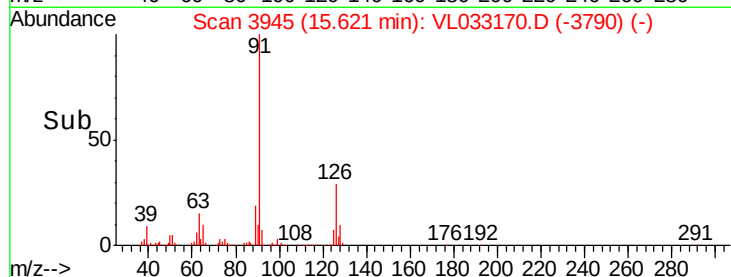
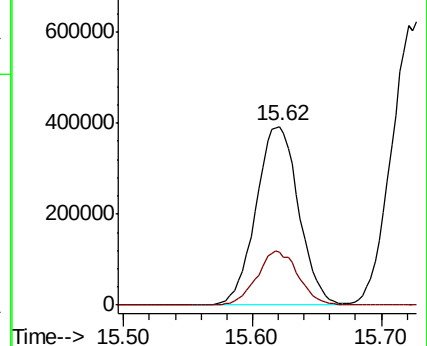
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 2.094 ppbv

RT: 16.00 min Scan# 4064

Delta R.T. -0.01 min

Lab File: VL033170.D

Acq: 6 Feb 2019 2:31

Tgt Ion: 105 Resp: 939304

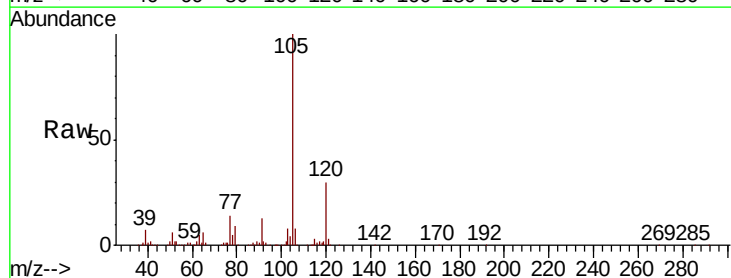
Ion Ratio Lower Upper

105 100

120 28.8 23.1 34.7

91 13.6 9.8 14.6

77 13.7 10.9 16.3

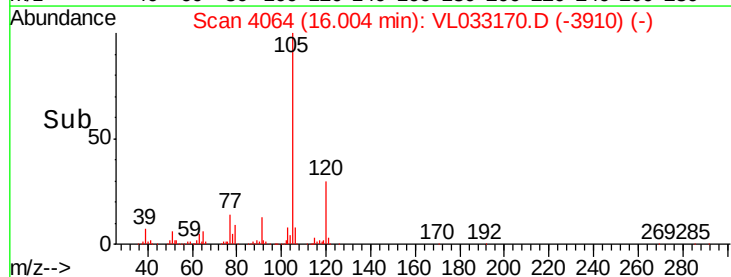
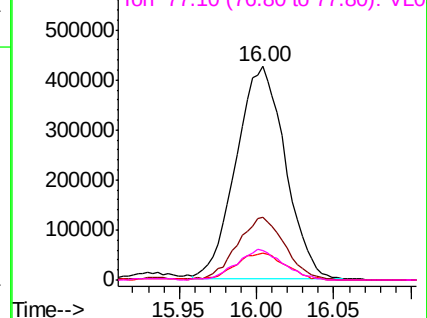


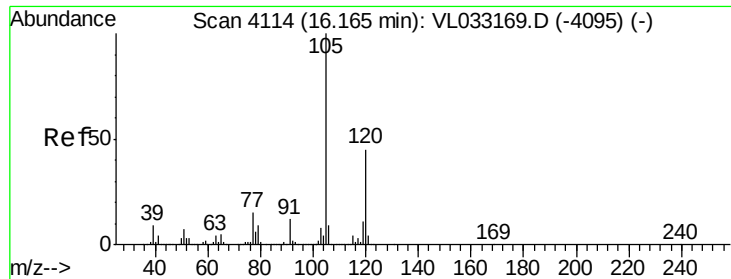
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





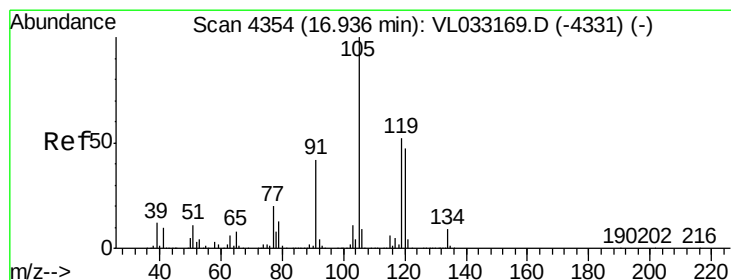
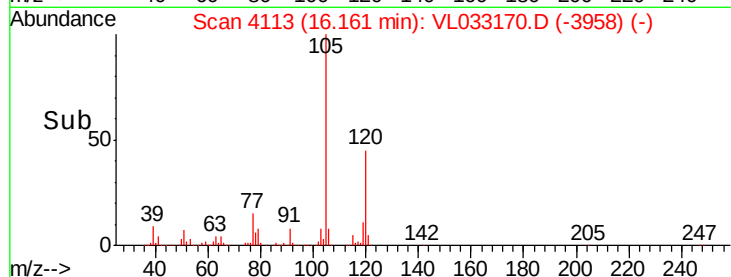
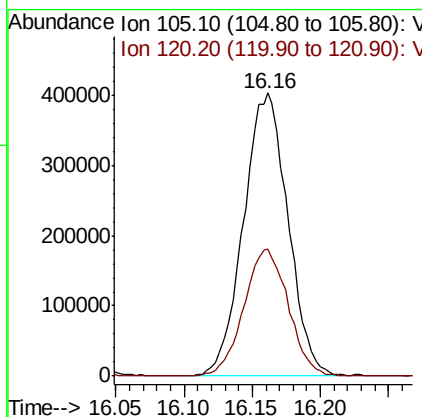
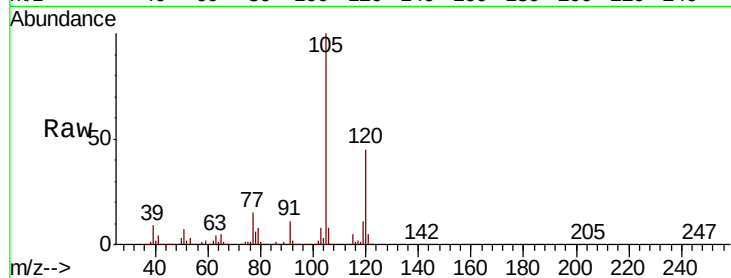
#73
 1,3,5-Trimethylbenzene
 Concen: 2.113 ppbv
 RT: 16.16 min Scan# 4113
 Delta R.T. -0.00 min
 Lab File: VL033170.D
 Acq: 6 Feb 2019 2:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion:105 Resp: 906463
 Ion Ratio Lower Upper
 105 100
 120 44.9 36.2 54.4

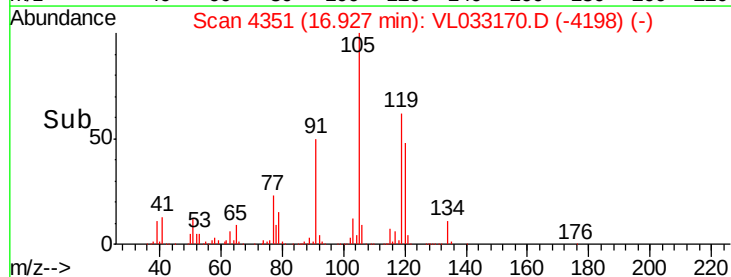
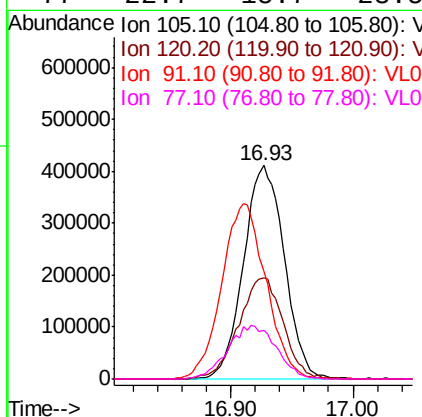
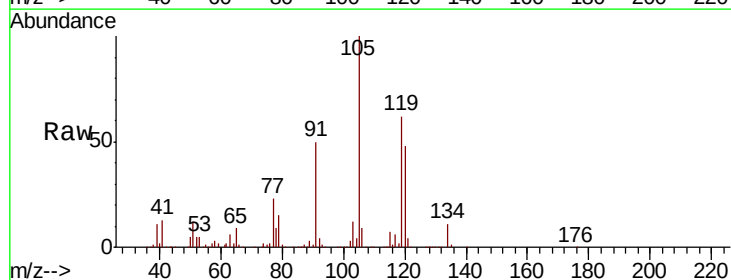
Manual Integrations
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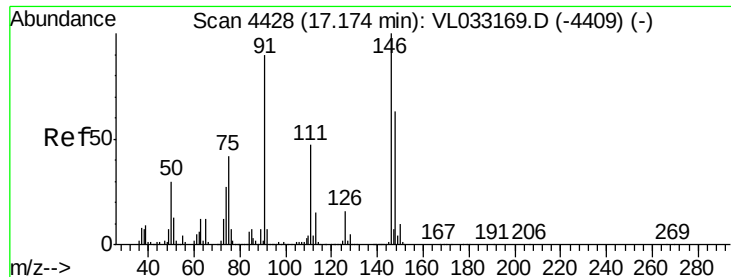
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#74
 1,2,4-Trimethylbenzene
 Concen: 2.137 ppbv
 RT: 16.93 min Scan# 4351
 Delta R.T. -0.01 min
 Lab File: VL033170.D
 Acq: 6 Feb 2019 2:31

Tgt Ion:105 Resp: 950933
 Ion Ratio Lower Upper
 105 100
 120 47.5 37.9 56.9
 91 49.9 34.0 51.0
 77 22.7 15.7 23.5





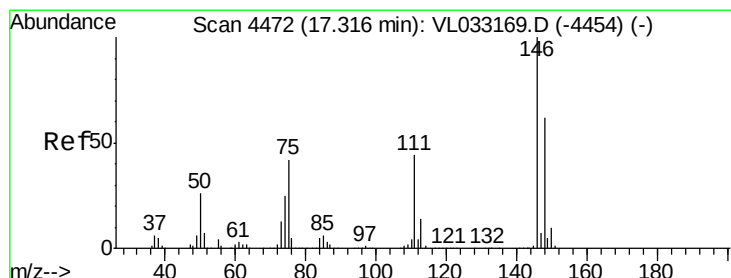
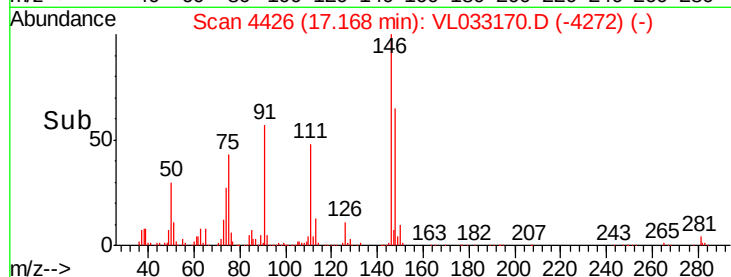
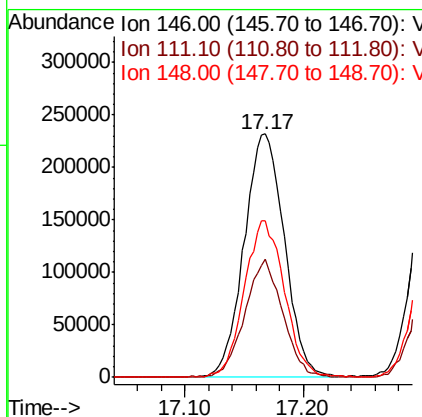
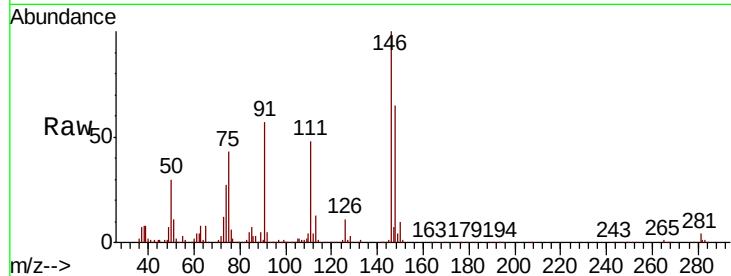
#75
 1,3-Dichlorobenzene
 Concen: 2.121 ppbv
 RT: 17.17 min Scan# 4426
 Delta R.T. -0.01 min
 Lab File: VL033170.D
 Acq: 6 Feb 2019 2:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.8	23.2	69.6
148	64.3	31.8	95.4

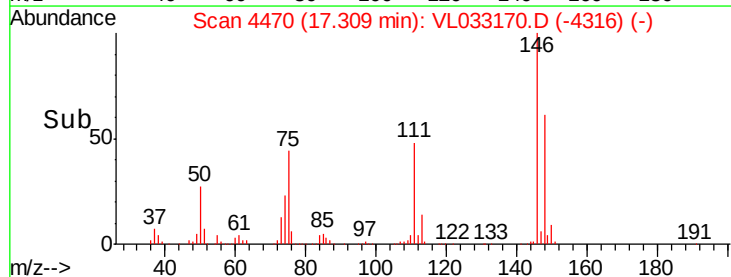
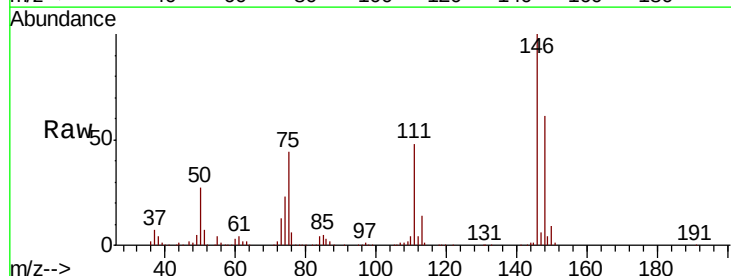
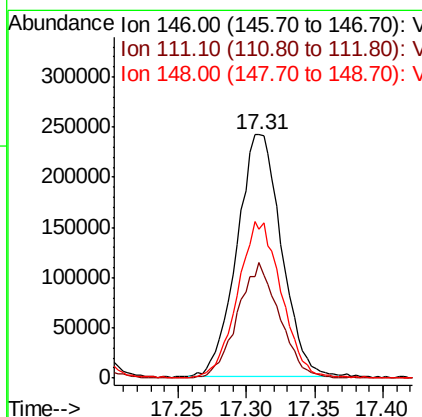
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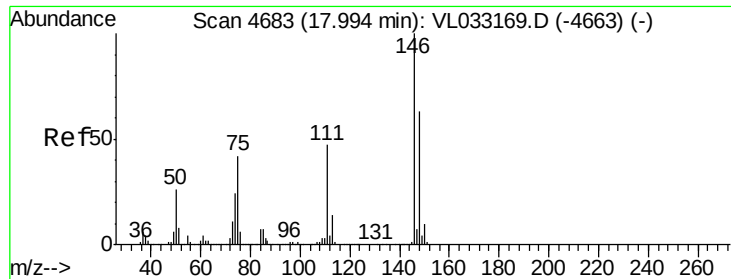
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#76
 1,4-Dichlorobenzene
 Concen: 2.150 ppbv
 RT: 17.31 min Scan# 4470
 Delta R.T. -0.01 min
 Lab File: VL033170.D
 Acq: 6 Feb 2019 2:31

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.2	22.3	66.9
148	63.7	32.0	96.0





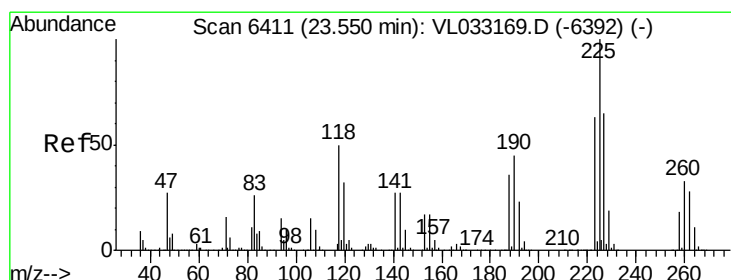
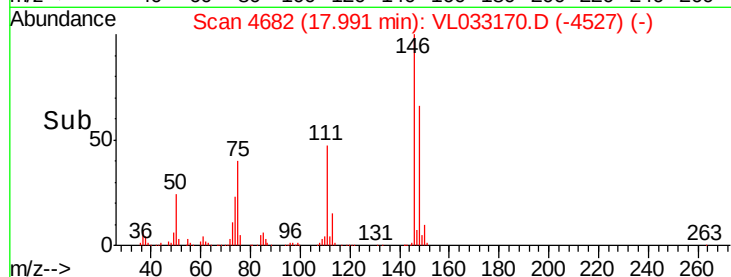
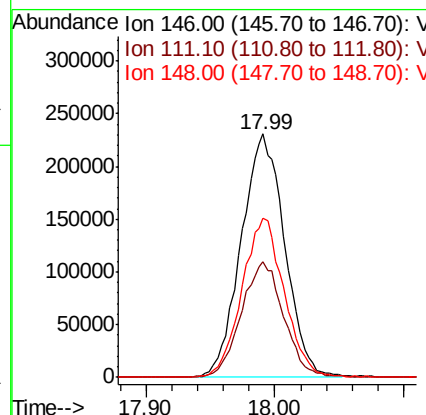
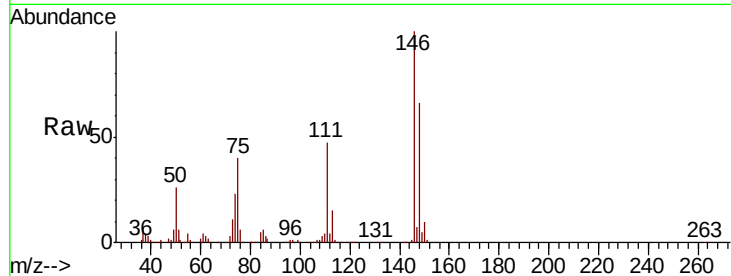
#77
 1,2-Dichlorobenzene
 Concen: 2.123 ppbv
 RT: 17.99 min Scan# 4682
 Delta R.T. -0.00 min
 Lab File: VL033170.D
 Acq: 6 Feb 2019 2:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	538209		
111	46.7	23.5	70.6	
148	64.1	31.9	95.7	

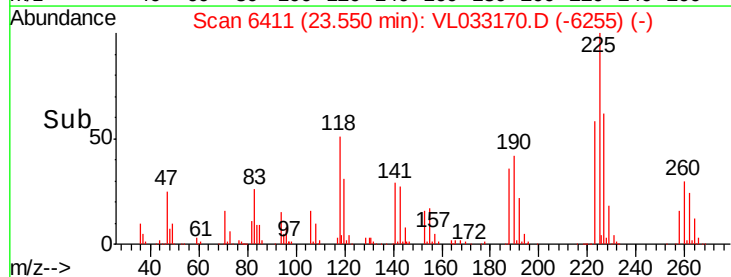
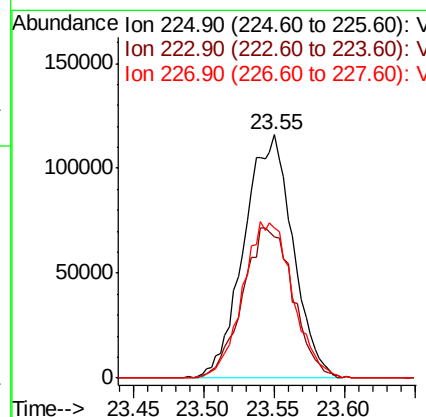
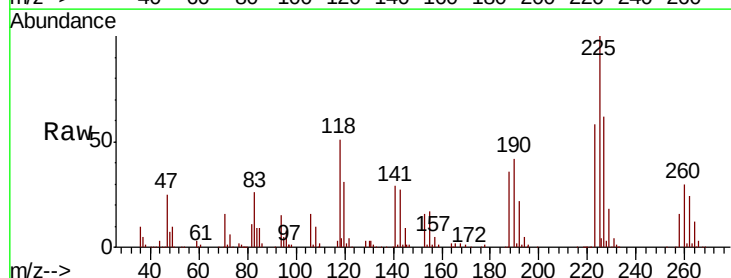
Manual Integrations
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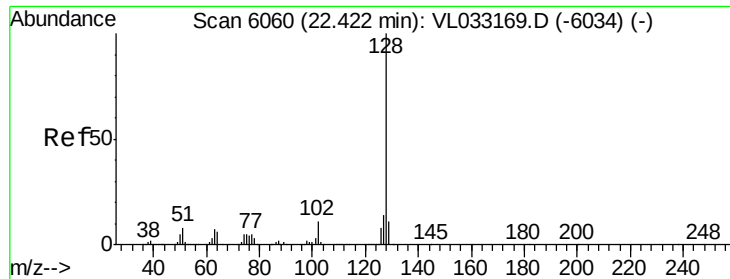
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#78
 Hexachloro-1,3-Butadiene
 Concen: 2.217 ppbv m
 RT: 23.55 min Scan# 6411
 Delta R.T. 0.00 min
 Lab File: VL033170.D
 Acq: 6 Feb 2019 2:31

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	279568		
223	63.7	50.6	75.8	
227	65.6	51.4	77.2	





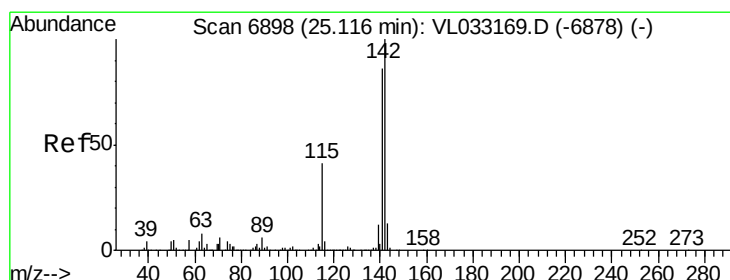
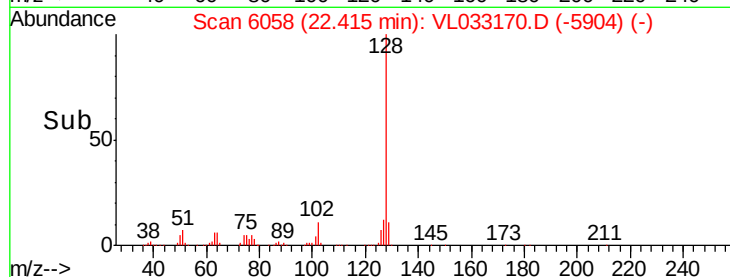
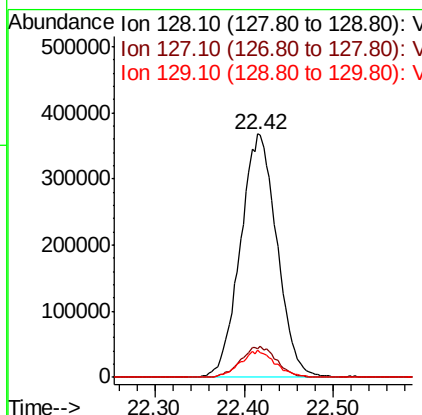
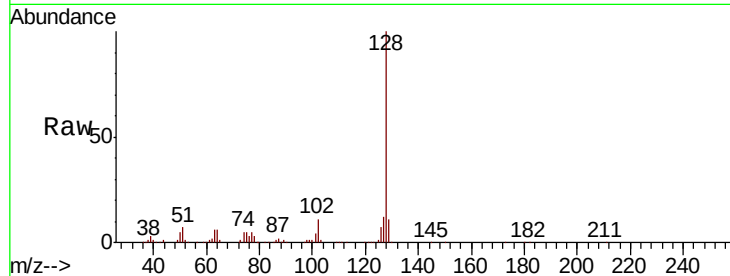
#79
Naphthalene
Concen: 2.196 ppbv
RT: 22.42 min Scan# 6058
Delta R.T. -0.01 min
Lab File: VL033170.D
Acq: 6 Feb 2019 2:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC002

Tgt Ion	Ratio	Lower	Upper
128	100		
127	11.7	11.0	16.4
129	11.2	8.6	12.8

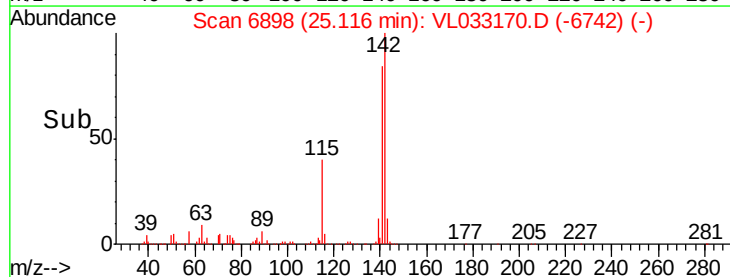
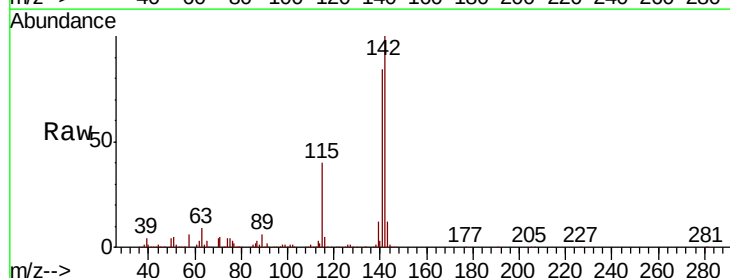
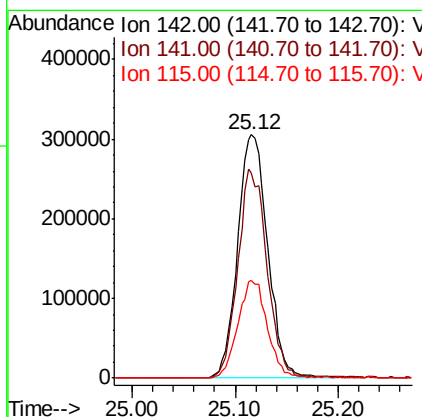
Manual Integrations
APPROVED

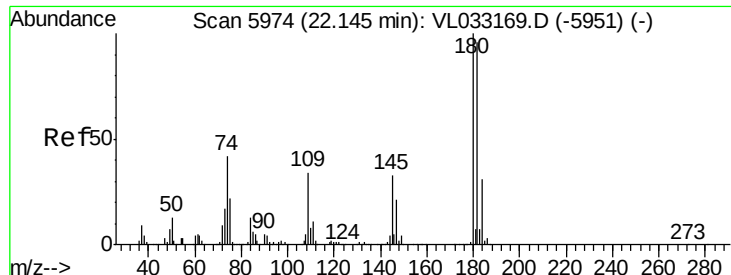
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#80
Naphthalene, 2-methyl-
Concen: 2.570 ppbv
RT: 25.12 min Scan# 6898
Delta R.T. 0.00 min
Lab File: VL033170.D
Acq: 6 Feb 2019 2:31

Tgt Ion	Ratio	Lower	Upper
142	100		
141	83.6	67.7	101.5
115	39.1	32.7	49.1





#81
 1,2,4-Trichlorobenzene
 Concen: 2.122 ppbv
 RT: 22.14 min Scan# 5973
 Delta R.T. -0.00 min
 Lab File: VL033170.D
 Acq: 6 Feb 2019 2:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC002

Tgt Ion	Ratio	Resp Lower	Resp Upper
180	100		
182	96.4	75.8	113.8
184	30.5	24.3	36.5

Manual Integrations
 APPROVED

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