

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031219\
 Data File : VL033278.D
 Acq On : 12 Mar 2019 6:11
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 3/14/2019 5:05:49 AM

Quant Time: Mar 12 06:51:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 12 2019
 QLast Update : Tue Mar 12 04:49:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	900154	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2021945	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2207012m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	1673084	9.47	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.70%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	2246986	12.035	ppbv	99
3) Chlorodifluoromethane	3.01	51	1477395	13.017	ppbv	99
4) Chloromethane	3.17	50	800129	13.416	ppbv	97
5) Vinyl Chloride	3.29	62	787423	13.642	ppbv	98
6) Bromomethane	3.52	94	479650	13.111	ppbv	93
7) Chloroethane	3.60	64	285344	13.361	ppbv	99
8) Dichlorotetrafluoroethane	3.22	85	1885622	12.772	ppbv	100
9) Propene	3.04	41	667419	13.241	ppbv	100
10) Heptane	8.25	43	1729773	14.471	ppbv	100
11) Trichlorofluoromethane	4.00	101	2117809	13.546	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1409110	14.337	ppbv	100
13) Ethanol	3.65	45	149898	10.654	ppbv	99
14) Bromoethene	3.79	108	616625	15.240	ppbv	99
15) Acetone	3.90	43	1419255	12.668	ppbv	98
16) 1,3-Butadiene	3.36	39	695008	14.379	ppbv	93
17) tert-Butyl alcohol	4.36	59	263527	14.982	ppbv	100
18) 1,1-Dichloroethene	4.35	96	637363	14.799	ppbv	96
19) Isopropyl Alcohol	4.02	45	962986	14.329	ppbv	100
20) Methylene Chloride	4.41	84	555512	12.558	ppbv	95
21) Allyl Chloride	4.48	41	1000356	15.438	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	685563	14.931	ppbv	97
23) Vinyl Acetate	5.16	43	2434644	15.675	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1636657	13.891	ppbv	100
25) Ethyl Acetate	5.77	43	2885813	14.071	ppbv	100
26) Hexane	5.78	57	1293622	13.382	ppbv	99
27) Carbon Disulfide	4.62	76	1647933	16.840	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	1896429	14.878	ppbv	100
29) Chloroform	5.85	83	2110876	14.356	ppbv	98
30) Cyclohexane	7.25	84	1081155	14.885	ppbv	98
31) cis-1,2-Dichloroethene	5.64	61	1376907	15.076	ppbv	99
32) 1,1,1-Trichloroethane	6.62	97	2085514	15.043	ppbv	100
34) 2-Butanone	5.33	43	1906596	15.209	ppbv	100
35) Carbon Tetrachloride	7.14	117	2207093	15.937	ppbv	99
36) Benzene	7.01	78	2688077	15.039	ppbv	98
37) 1,2-Dichloroethane	6.42	62	1653548	14.485	ppbv	100
38) Trichloroethene	7.97	130	989279	14.629	ppbv	97
39) 1,2-Dichloropropane	7.74	63	1020633	14.926	ppbv	99
40) 1,4-Dioxane	7.96	88	396291	15.807	ppbv	76
41) Tetrahydrofuran	6.15	42	1102465	15.542	ppbv	100
42) Bromodichloromethane	7.92	83	2327749	15.286	ppbv	98
43) Methyl Methacrylate	8.14	69	1123053	16.087	ppbv	98

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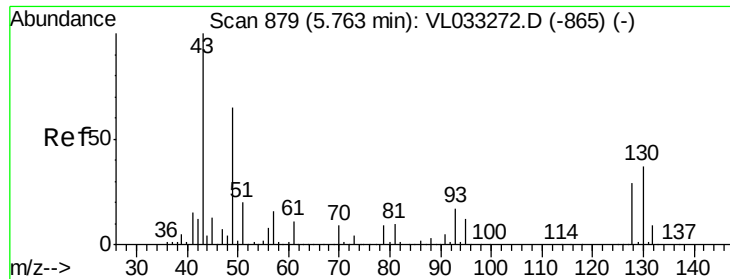
Manual Integrations
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 12 2019
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	4442460	14.412	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1544064	18.241	ppbv	98
46) cis-1,3-Dichloropropene	8.84	75	1694418	16.988	ppbv	99
47) 1,1,2-Trichloroethane	9.62	97	1112653	15.156	ppbv	97
48) Dibromochloromethane	10.46	129	1941234	16.132	ppbv	100
49) Bromoform	13.21	173	1611245	14.922	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2769885	14.995	ppbv	99
51) 2-Hexanone	10.27	43	2205212	16.012	ppbv #	99
52) Tetrachloroethene	11.38	164	970559	14.855	ppbv	98
53) Toluene	9.95	91	3173515	15.891	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1728004	15.011	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.29	131	1320266	14.311	ppbv #	66
57) Chlorobenzene	12.31	112	2243616	13.822	ppbv	100
58) Ethyl Benzene	12.87	91	4302958	14.370	ppbv	97
59) m/p-Xylene	13.13	91	7059788m	26.080	ppbv	
60) o-Xylene	13.86	91	3390884	12.980	ppbv	100
61) Styrene	13.69	104	2569259	14.405	ppbv	100
62) Isopropylbenzene	14.83	105	4700908	13.484	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	2200781	13.070	ppbv	99
64) n-propylbenzene	15.73	120	1191843	13.955	ppbv	100
65) tert-Butylbenzene	16.92	119	4012747	13.672	ppbv	99
66) Benzyl Chloride	17.16	91	2149621	19.655	ppbv	99
67) sec-Butylbenzene	17.46	105	5757787	13.827	ppbv	100
69) p-Isopropyltoluene	17.82	119	4782183	14.132	ppbv	100
70) n-Butylbenzene	18.72	91	5166728	14.089	ppbv	99
71) 2-Chlorotoluene	15.62	91	3622273	13.903	ppbv	100
72) 4-Ethyltoluene	16.00	105	3883897	14.300	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	3659393	14.146	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	3704897	13.740	ppbv	99
75) 1,3-Dichlorobenzene	17.17	146	2146927	13.493	ppbv	99
76) 1,4-Dichlorobenzene	17.32	146	2187823	14.015	ppbv	100
77) 1,2-Dichlorobenzene	18.00	146	2137966	13.921	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	1593997	13.693	ppbv	99
79) Naphthalene	22.42	128	5610199	19.045	ppbv	99
80) Naphthalene,2-methyl-	25.12	142	2077764	29.152	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	2584443	16.978	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. 0.00 min

Lab File: VL033278.D

Acq: 12 Mar 2019 6:11

Instrument :

MSVOA_L

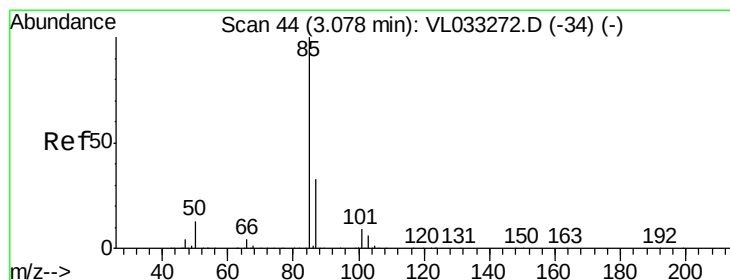
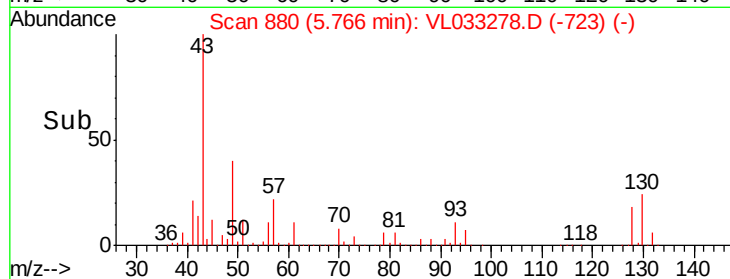
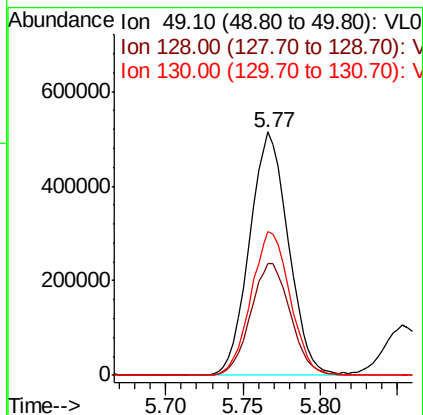
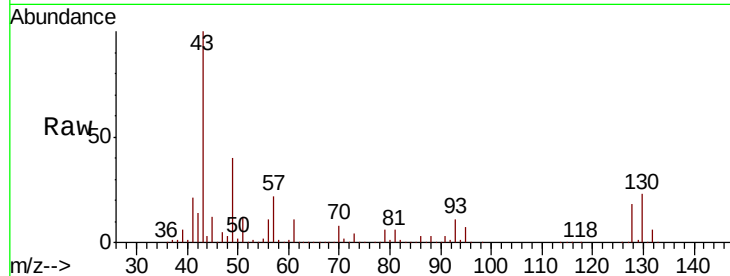
ClientSampleId :

VSTDIC015

Tgt Ion	Ratio	Lower	Upper
49	100		
128	47.0	23.3	69.9
130	59.6	30.0	90.1

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#2

Dichlorodifluoromethane

Concen: 12.035 ppbv

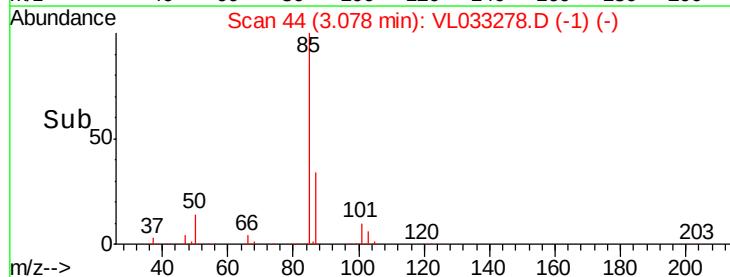
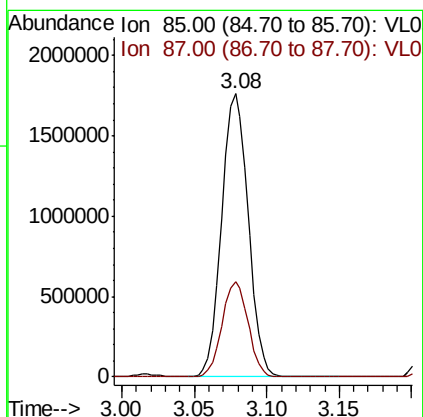
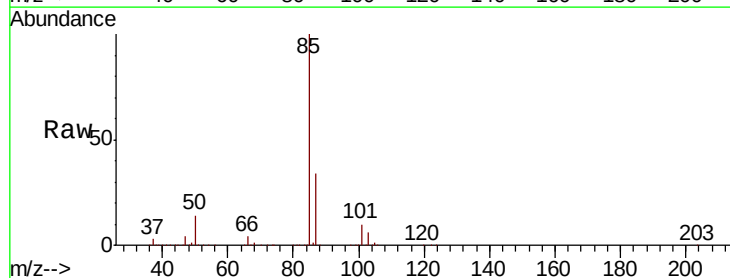
RT: 3.08 min Scan# 44

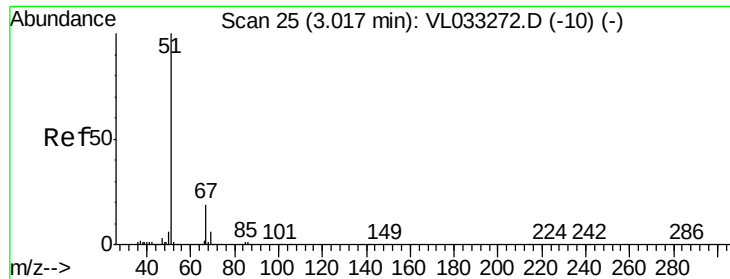
Delta R.T. 0.00 min

Lab File: VL033278.D

Acq: 12 Mar 2019 6:11

Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.8	26.4	39.6





#3

Chlorodifluoromethane

Concen: 13.017 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033278.D

Acq: 12 Mar 2019 6:11

Tgt Ion: 51 Resp: 1477395

Ion Ratio Lower Upper

51 100

67 19.1 15.0 22.4

Instrument :

MSVOA_L

ClientSampleId :

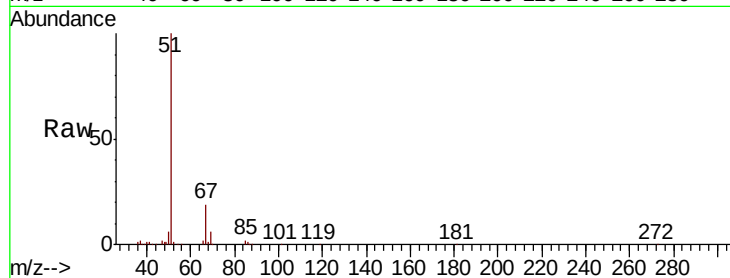
VSTDIC015

Manual Integrations

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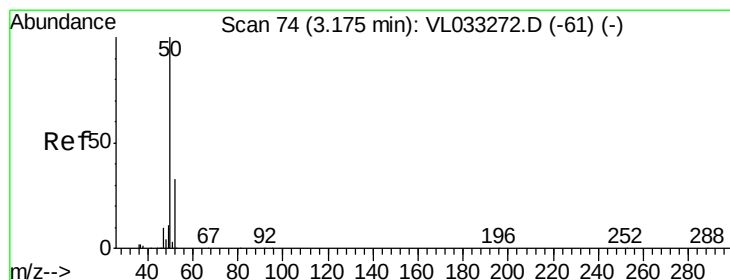
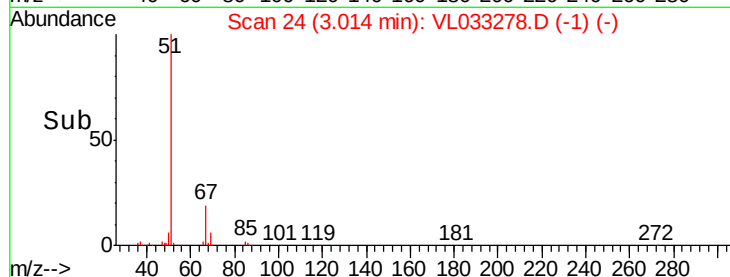
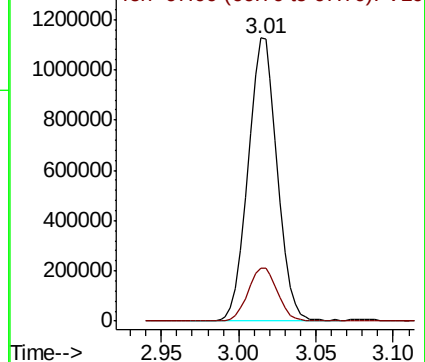
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 13.416 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL033278.D

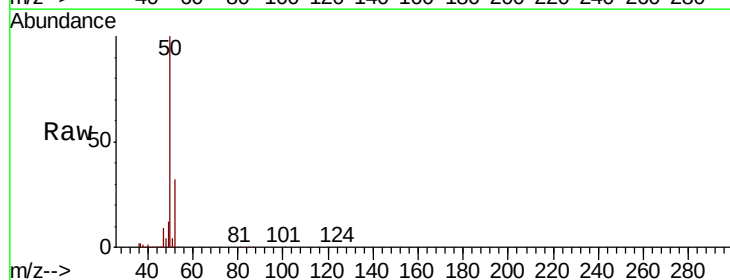
Acq: 12 Mar 2019 6:11

Tgt Ion: 50 Resp: 800129

Ion Ratio Lower Upper

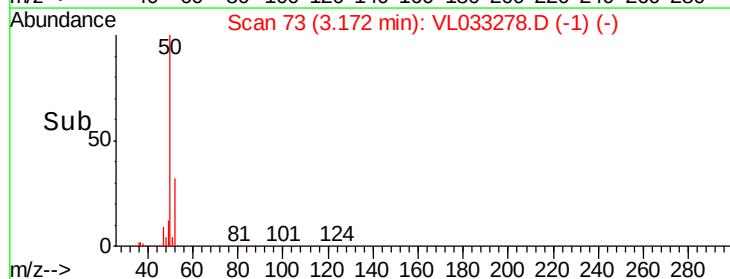
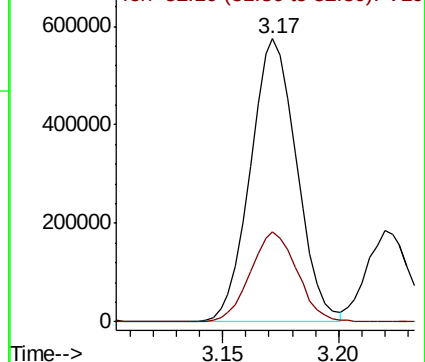
50 100

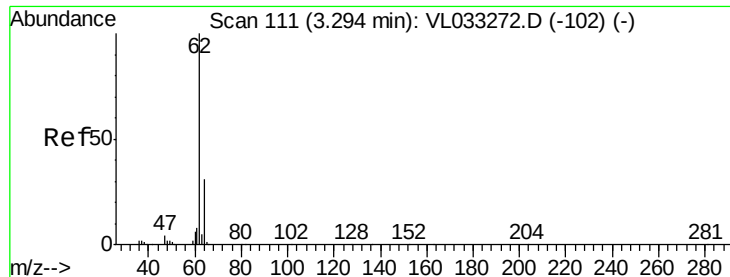
52 31.7 26.6 39.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 13.642 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033278.D

Acq: 12 Mar 2019 6:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 62 Resp: 787423

Ion Ratio Lower Upper

62 100

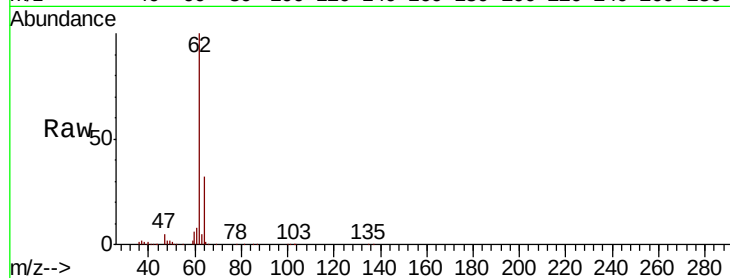
64 31.9 24.5 36.7

Manual Integrations

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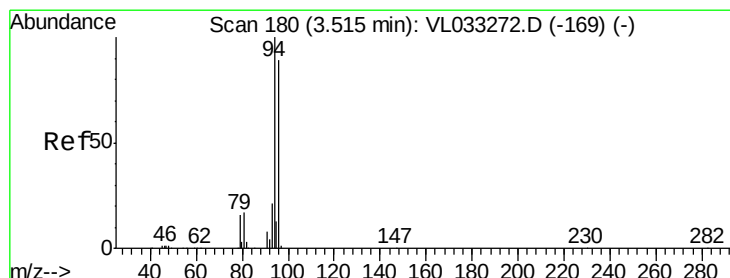
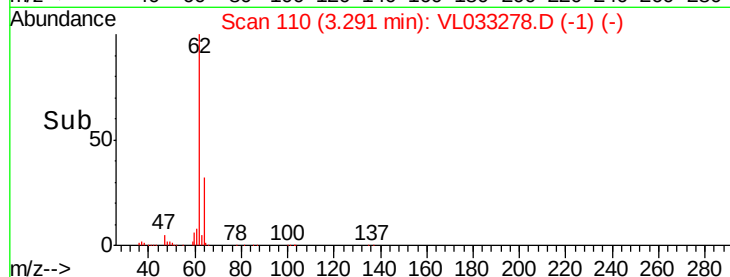
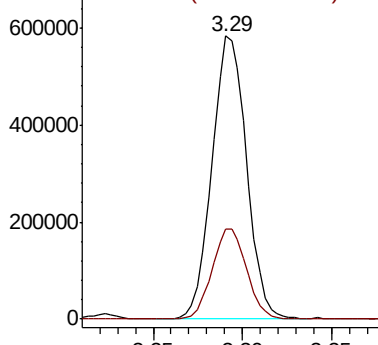
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 13.111 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033278.D

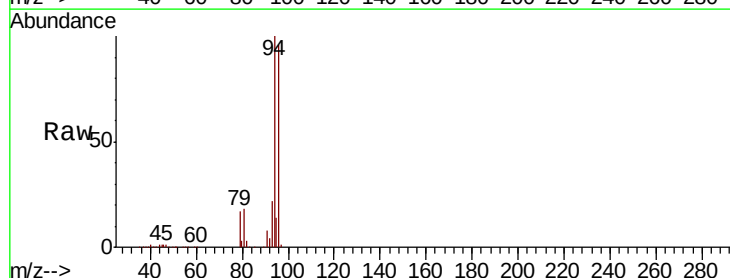
Acq: 12 Mar 2019 6:11

Tgt Ion: 94 Resp: 479650

Ion Ratio Lower Upper

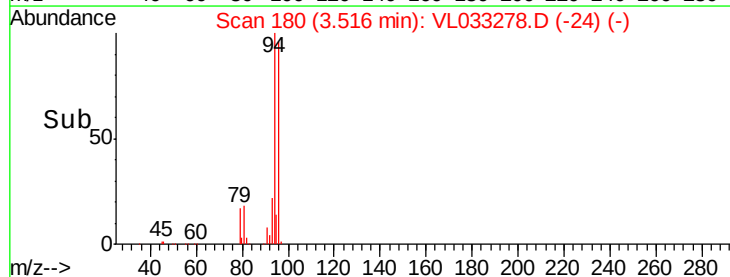
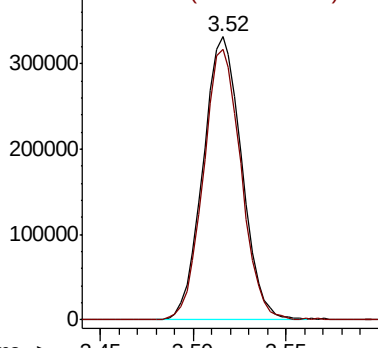
94 100

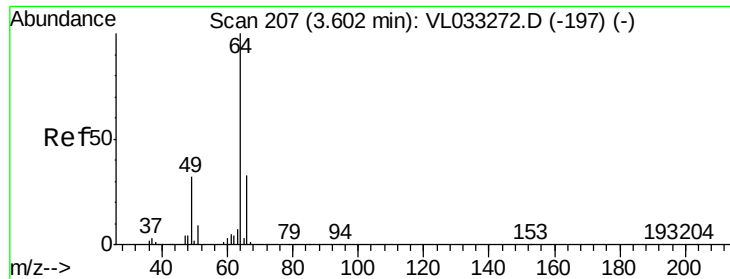
96 95.6 71.3 106.9



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 13.361 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033278.D

Acq: 12 Mar 2019 6:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 64 Resp: 285344

Ion Ratio Lower Upper

64 100

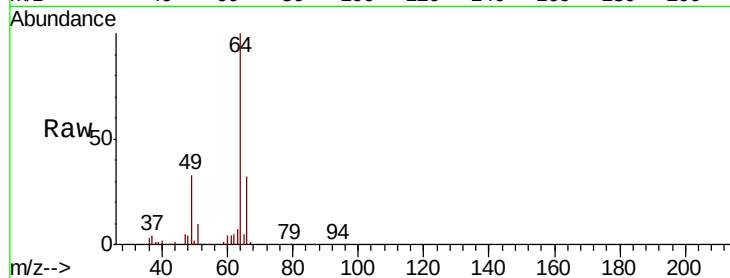
66 32.4 26.2 39.2

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.60

200000

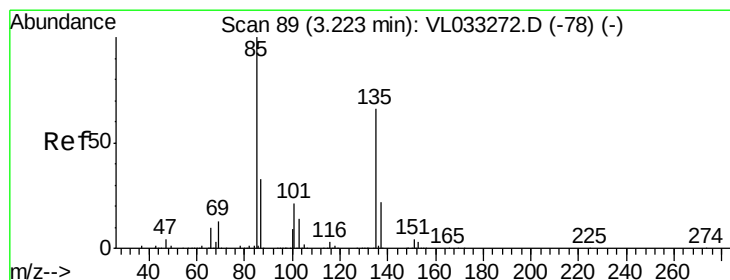
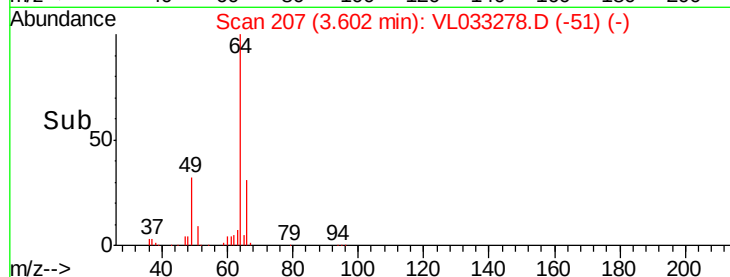
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 12.772 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033278.D

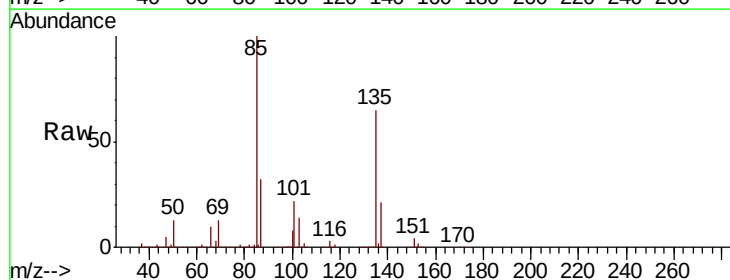
Acq: 12 Mar 2019 6:11

Tgt Ion: 85 Resp: 1885622

Ion Ratio Lower Upper

85 100

135 66.5 53.4 80.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

3.22

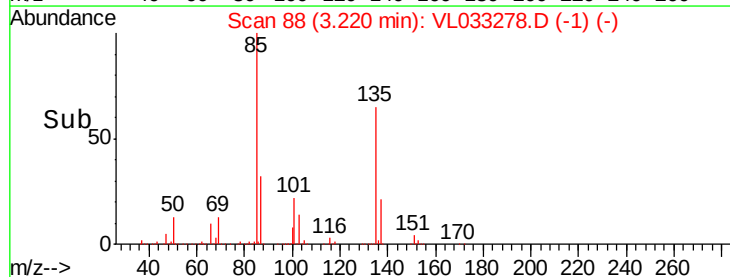
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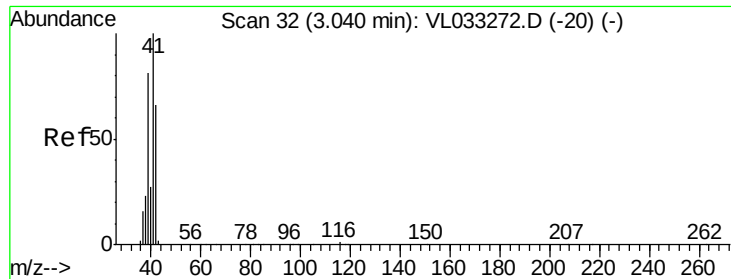
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500000

0

Time-->





#9

Propene

Concen: 13.241 ppbv

RT: 3.04 min Scan# 32

Delta R.T. 0.00 min

Lab File: VL033278.D

Acq: 12 Mar 2019 6:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 41 Resp: 667419

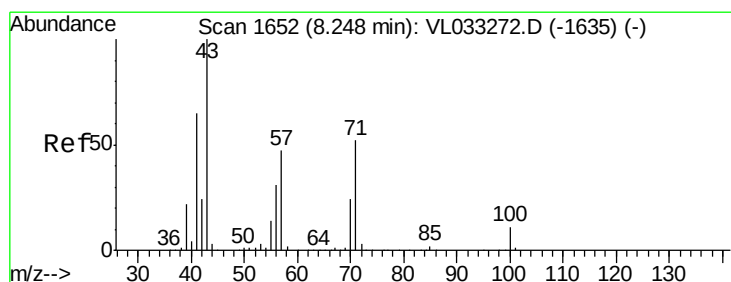
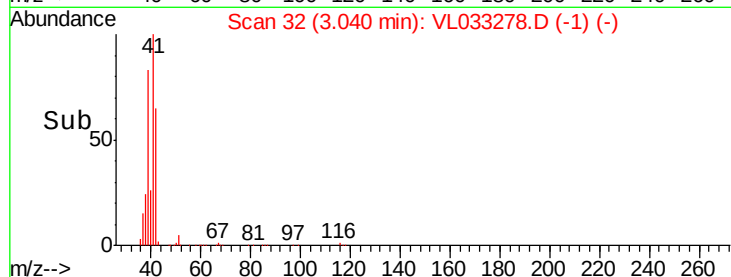
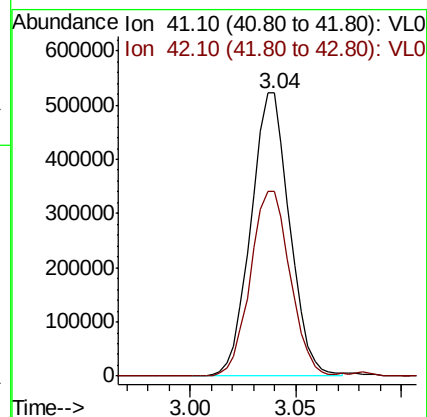
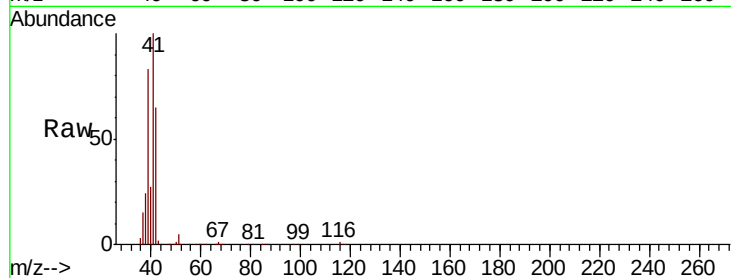
Ion Ratio Lower Upper

41 100

42 68.3 54.6 82.0

Manual Integrations
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#10

Heptane

Concen: 14.471 ppbv

RT: 8.25 min Scan# 1653

Delta R.T. 0.00 min

Lab File: VL033278.D

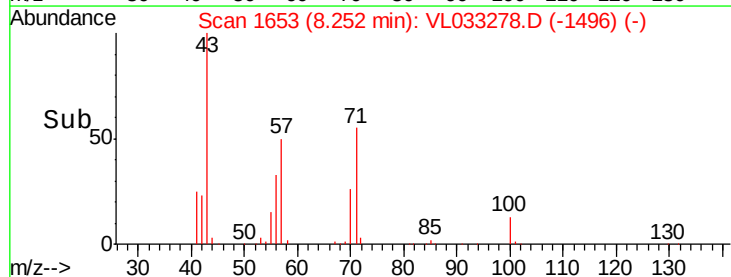
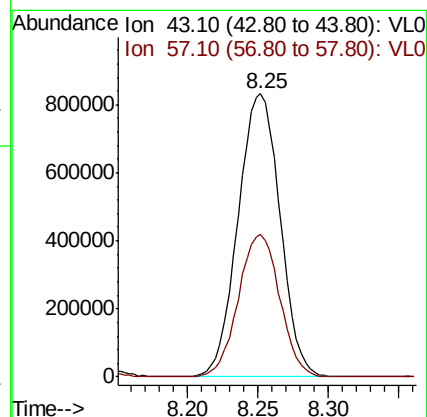
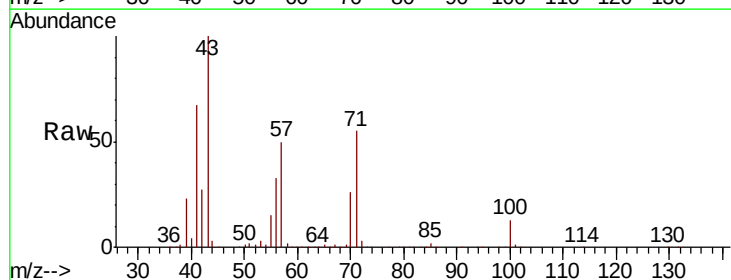
Acq: 12 Mar 2019 6:11

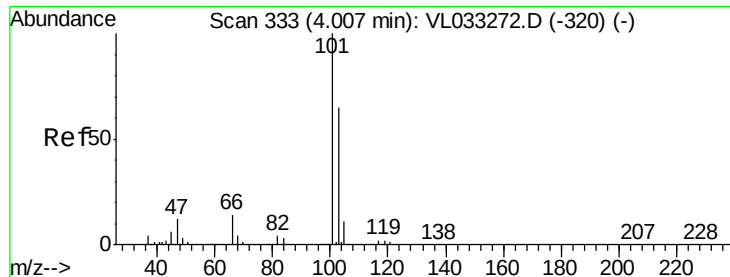
Tgt Ion: 43 Resp: 1729773

Ion Ratio Lower Upper

43 100

57 49.9 39.8 59.8





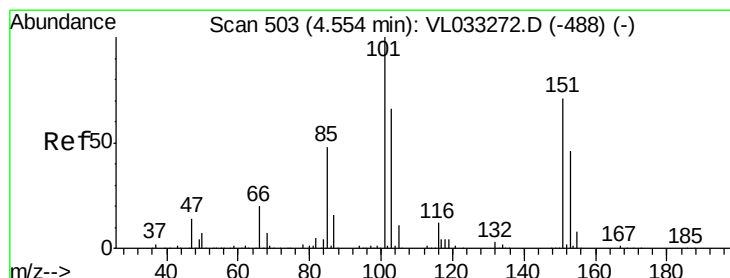
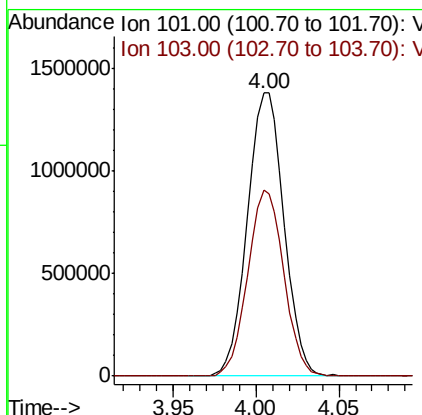
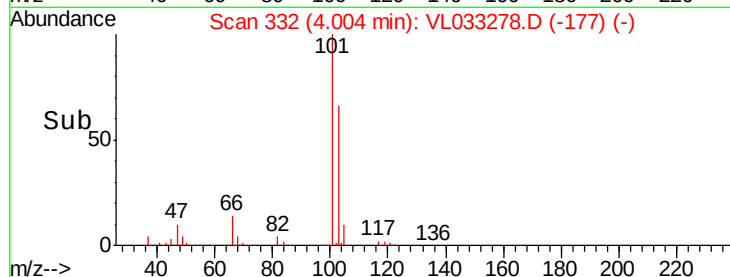
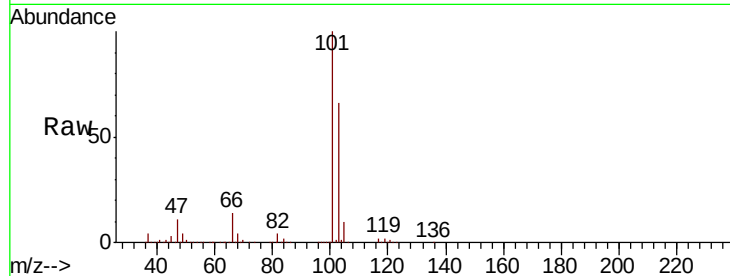
#11
 Trichlorofluoromethane
 Concen: 13.546 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. -0.00 min
 Lab File: VL033278.D
 Acq: 12 Mar 2019 6:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion:101 Resp: 2117809
 Ion Ratio Lower Upper
 101 100
 103 65.7 51.8 77.8

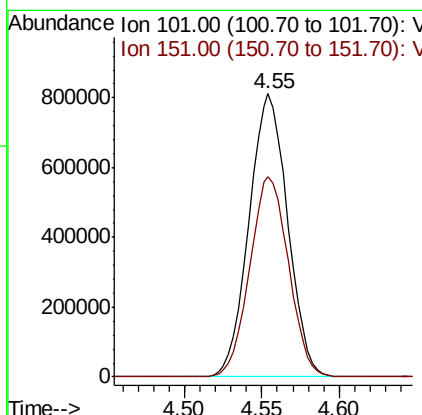
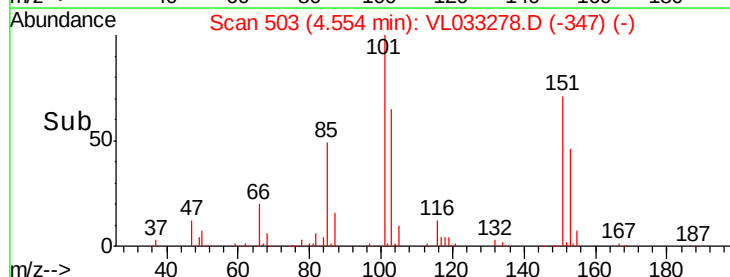
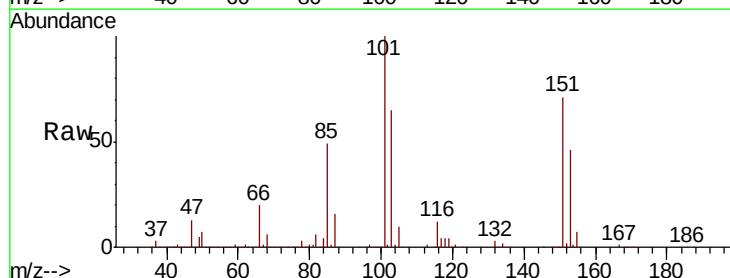
Manual Integrations
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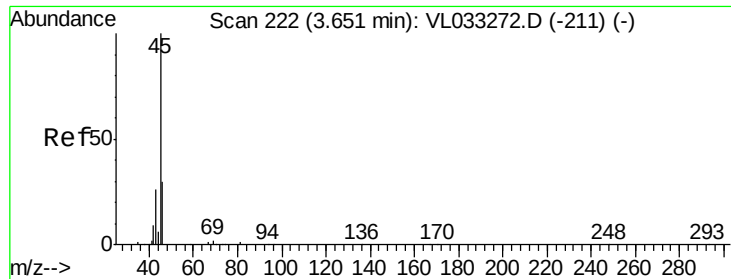
MMDadoda
 3/14/2019 5:05:49 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 14.337 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. 0.00 min
 Lab File: VL033278.D
 Acq: 12 Mar 2019 6:11

Tgt Ion:101 Resp: 1409110
 Ion Ratio Lower Upper
 101 100
 151 71.4 56.9 85.3





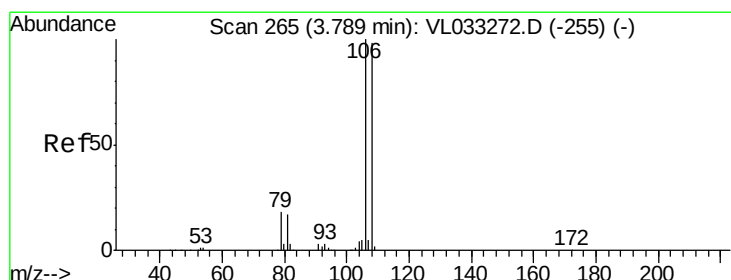
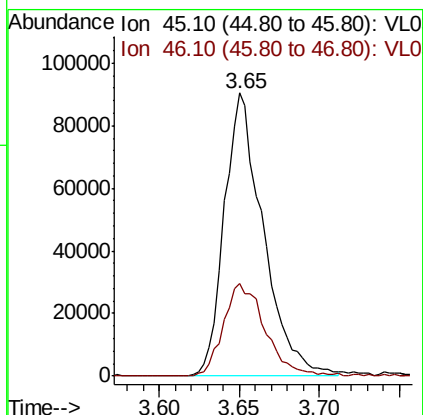
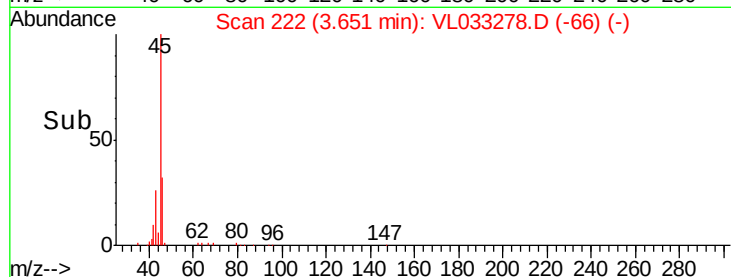
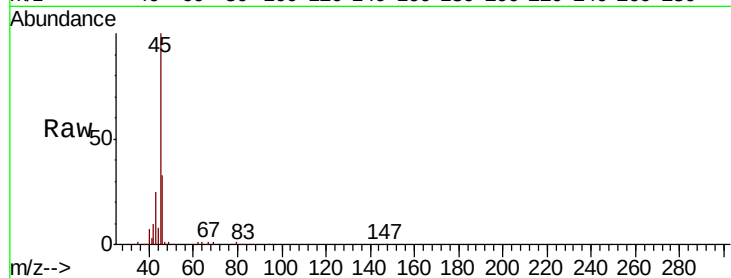
#13
Ethanol
Concen: 10.654 ppbv
RT: 3.65 min Scan# 222
Delta R.T. 0.00 min
Lab File: VL033278.D
Acq: 12 Mar 2019 6:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion	Ratio	Lower	Upper
45	100		
46	35.7	13.9	55.7

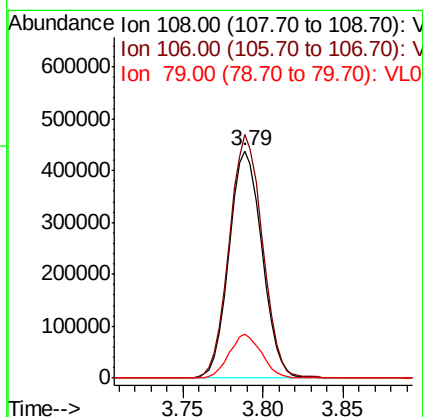
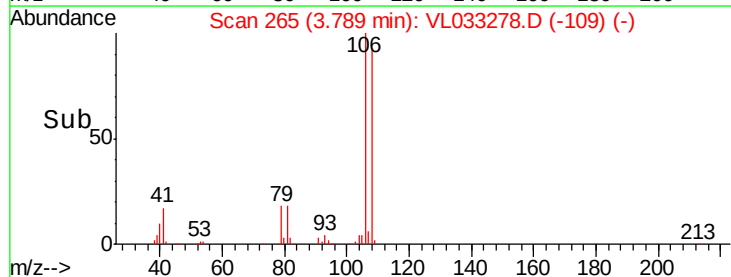
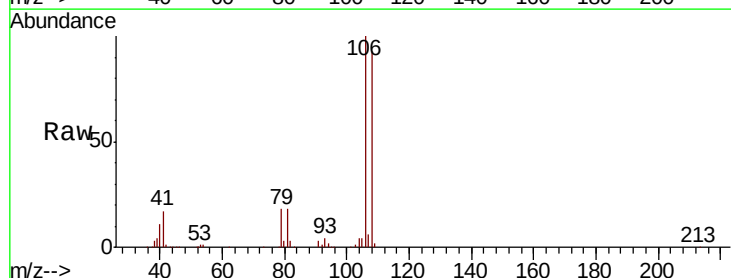
Manual Integrations
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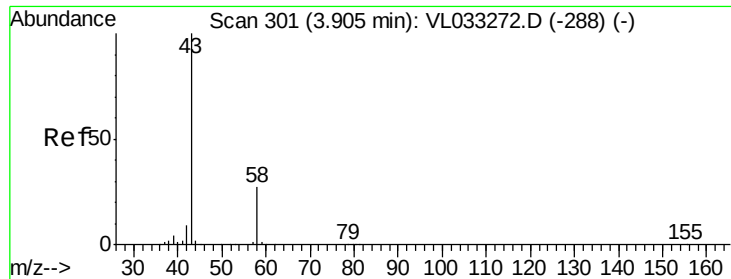
MMDadoda
3/14/2019 5:05:49 AM



#14
Bromoethene
Concen: 15.240 ppbv
RT: 3.79 min Scan# 265
Delta R.T. 0.00 min
Lab File: VL033278.D
Acq: 12 Mar 2019 6:11

Tgt Ion	Ratio	Lower	Upper
108	100		
106	107.8	85.9	128.9
79	19.1	14.9	22.3





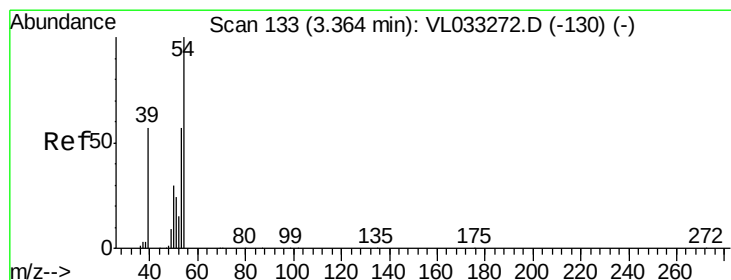
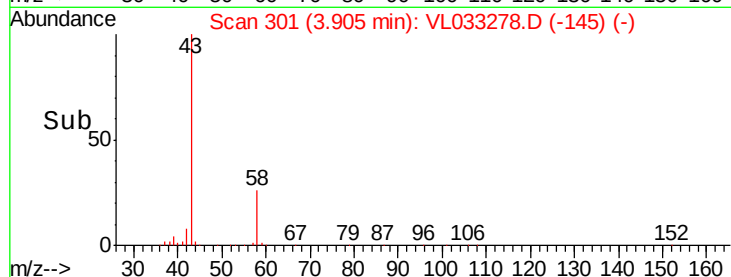
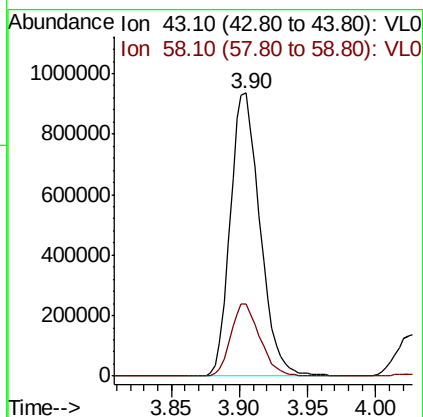
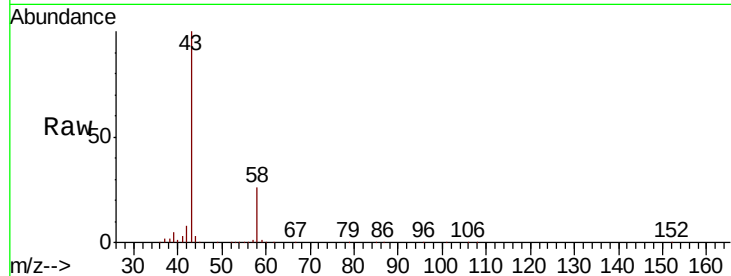
#15
Acetone
Concen: 12.668 ppbv
RT: 3.90 min Scan# 301
Delta R.T. 0.00 min
Lab File: VL033278.D
Acq: 12 Mar 2019 6:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 43 Resp: 1419255
Ion Ratio Lower Upper
43 100
58 25.5 21.1 31.7

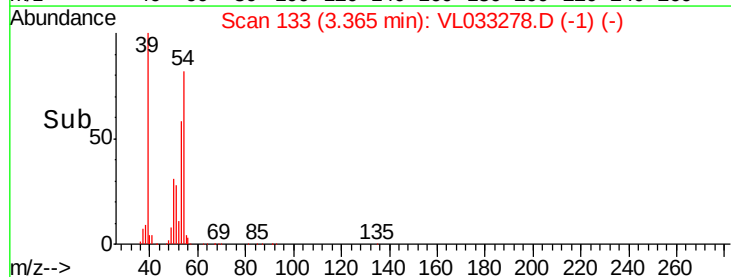
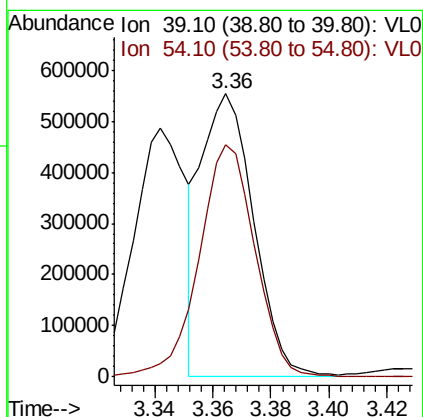
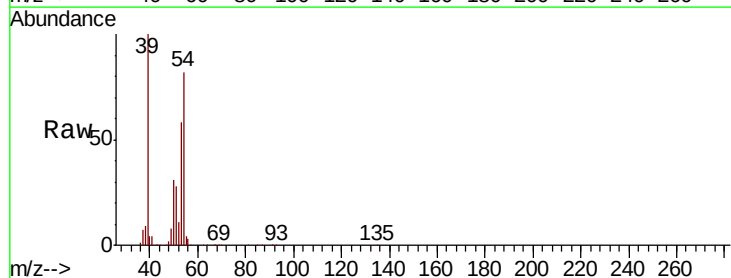
Manual Integrations
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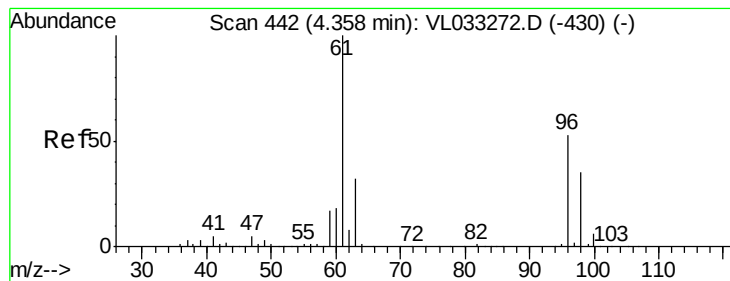
MMDadoda
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#16
1,3-Butadiene
Concen: 14.379 ppbv
RT: 3.36 min Scan# 133
Delta R.T. 0.00 min
Lab File: VL033278.D
Acq: 12 Mar 2019 6:11

Tgt Ion: 39 Resp: 695008
Ion Ratio Lower Upper
39 100
54 88.4 76.6 114.8





#17

tert-Butyl alcohol

Concen: 14.982 ppbv

RT: 4.36 min Scan# 443

Delta R.T. 0.00 min

Lab File: VL033278.D

Acq: 12 Mar 2019 6:11

Instrument :

MSVOA_L

ClientSampled :

VSTDIC015

Tgt Ion: 59 Resp: 263527

Ion Ratio Lower Upper

59 100

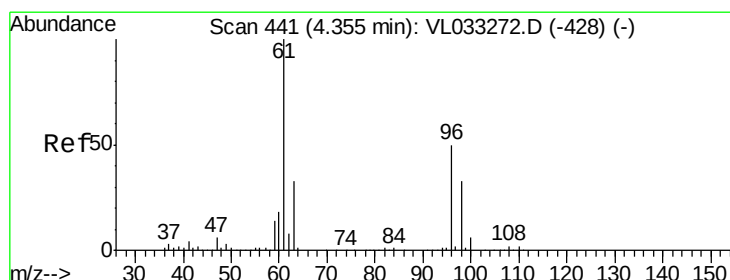
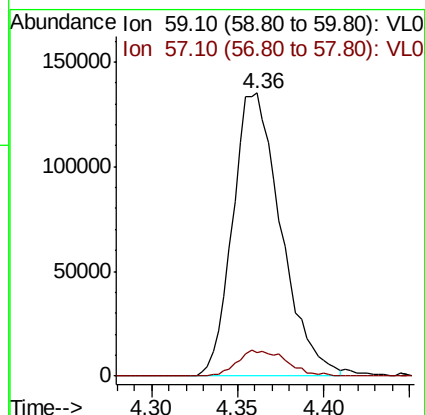
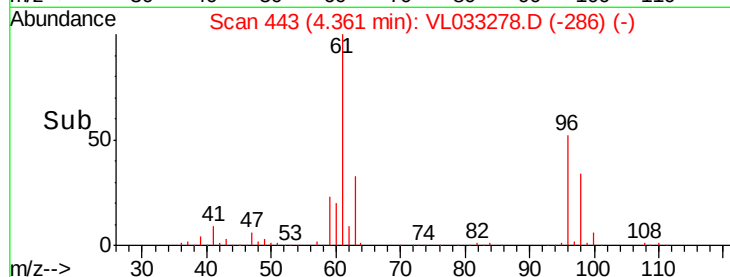
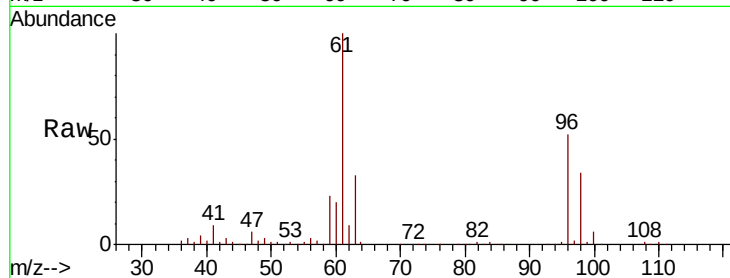
57 9.5 7.5 11.3

Manual Integrations

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MMDadoda

3/14/2019 5:05:49 AM



#18

1,1-Dichloroethene

Concen: 14.799 ppbv

RT: 4.35 min Scan# 440

Delta R.T. -0.00 min

Lab File: VL033278.D

Acq: 12 Mar 2019 6:11

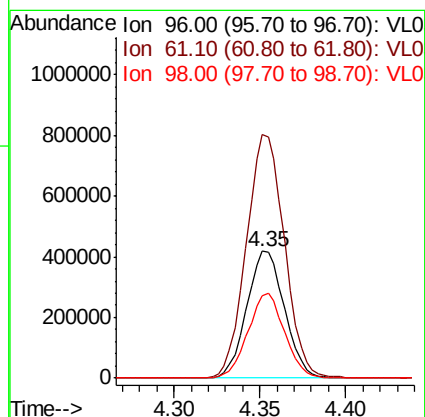
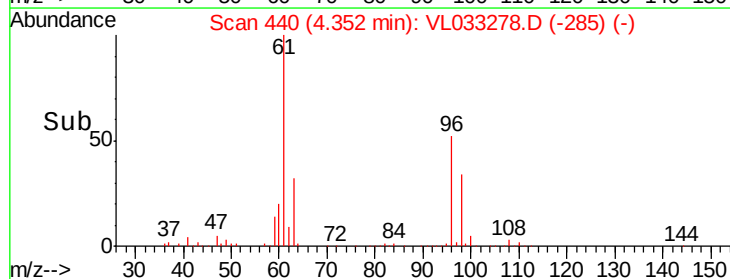
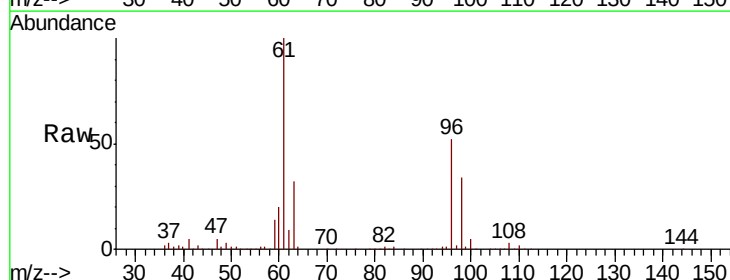
Tgt Ion: 96 Resp: 637363

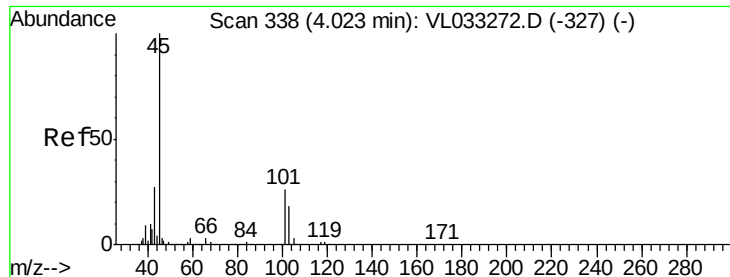
Ion Ratio Lower Upper

96 100

61 192.0 158.9 238.3

98 64.5 52.4 78.6





#19

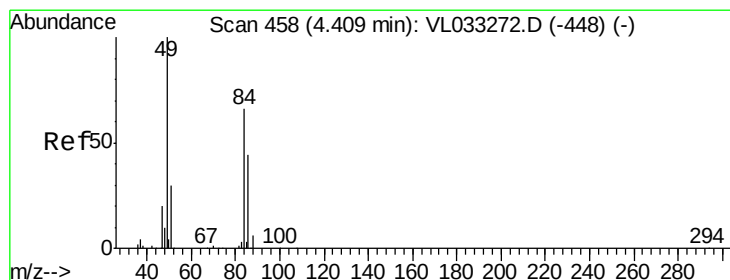
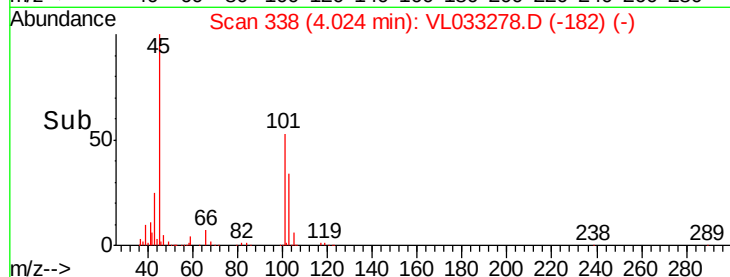
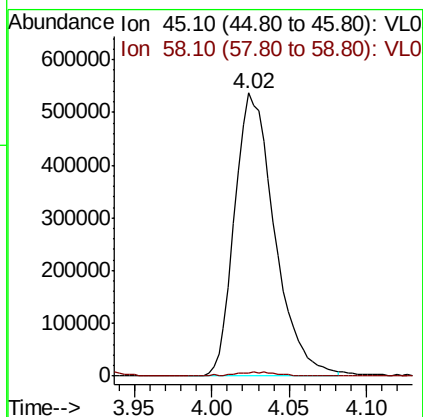
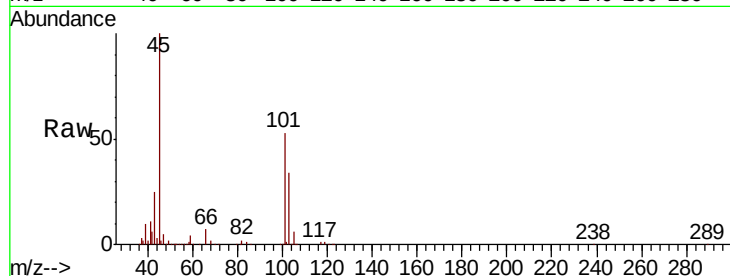
Isopropyl Alcohol
 Concen: 14.329 ppbv
 RT: 4.02 min Scan# 338
 Delta R.T. 0.00 min
 Lab File: VL033278.D
 Acq: 12 Mar 2019 6:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 45 Resp: 962986
 Ion Ratio Lower Upper
 45 100
 58 1.9 1.4 2.2

Manual Integrations
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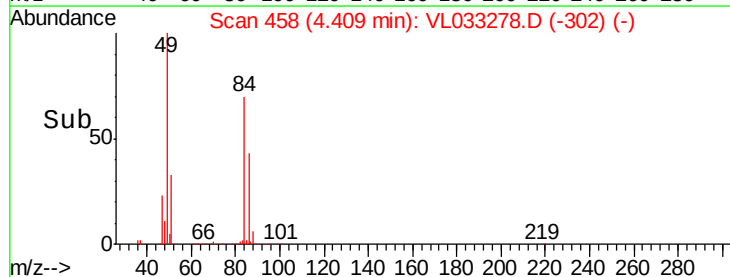
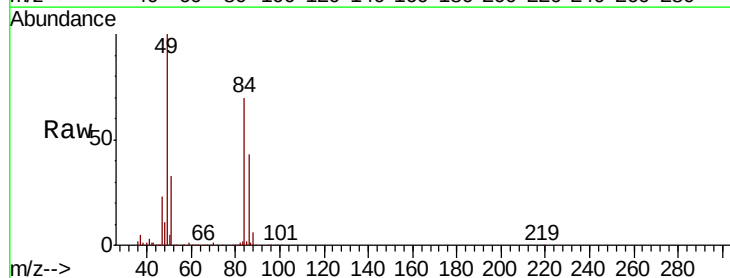
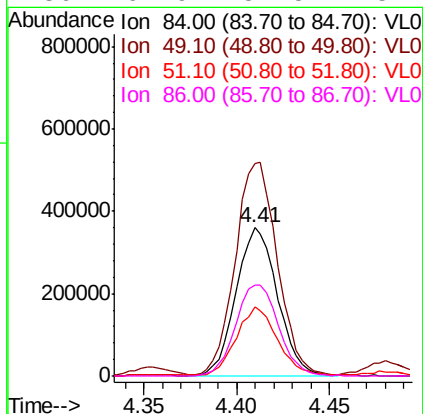
MMDadoda
 3/14/2019 5:05:49 AM

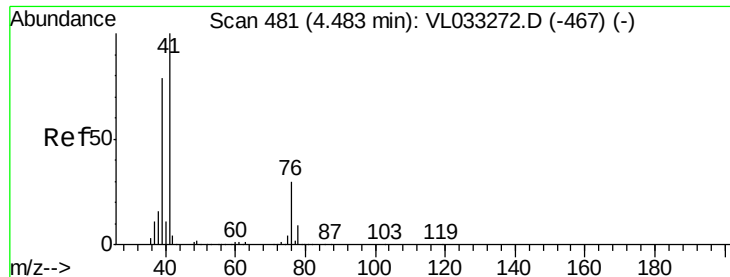


#20

Methylene Chloride
 Concen: 12.558 ppbv
 RT: 4.41 min Scan# 458
 Delta R.T. 0.00 min
 Lab File: VL033278.D
 Acq: 12 Mar 2019 6:11

Tgt Ion: 84 Resp: 555512
 Ion Ratio Lower Upper
 84 100
 49 143.2 120.3 180.5
 51 46.4 36.2 54.4
 86 61.9 52.5 78.7





#21

Allyl Chloride

Concen: 15.438 ppbv

RT: 4.48 min Scan# 480

Delta R.T. -0.00 min

Lab File: VL033278.D

Acq: 12 Mar 2019 6:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 41 Resp: 1000356

Ion Ratio Lower Upper

41 100

76 31.0 25.0 37.4

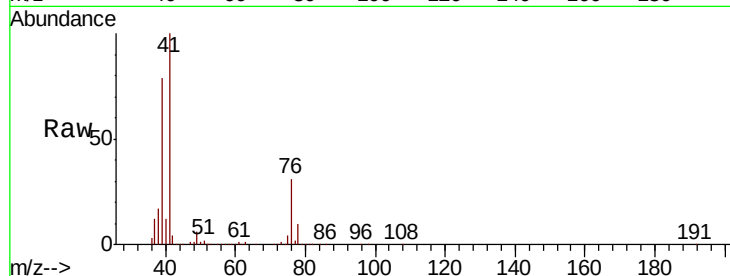
39 81.7 64.2 96.4

Manual Integrations

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MMDadoda

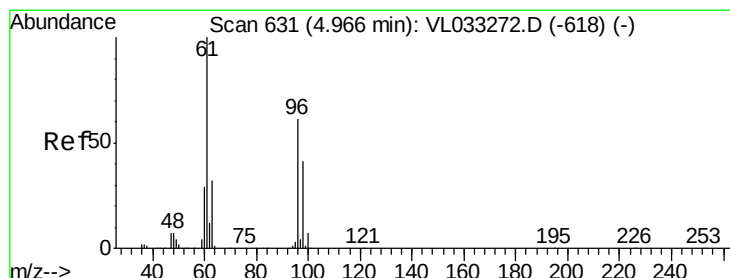
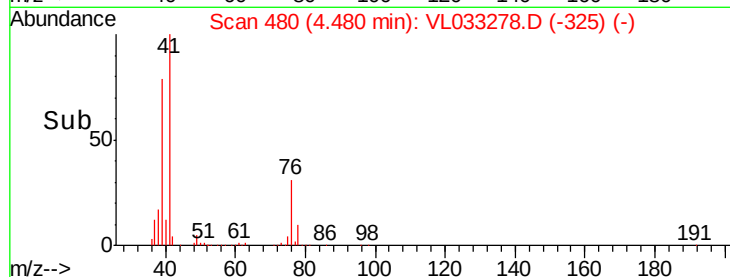
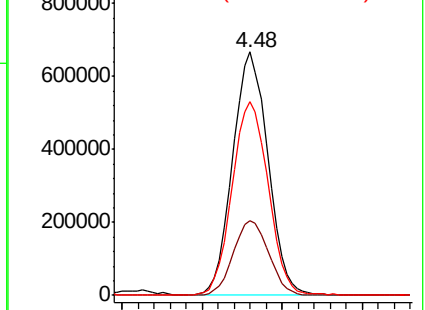
3/14/2019 5:05:49 AM



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 76.10 (75.80 to 76.80): VL0

Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 14.931 ppbv

RT: 4.97 min Scan# 631

Delta R.T. 0.00 min

Lab File: VL033278.D

Acq: 12 Mar 2019 6:11

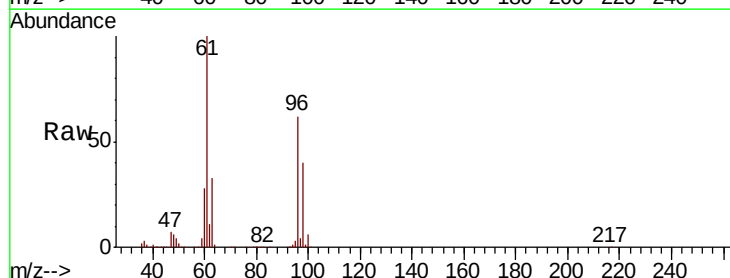
Tgt Ion: 96 Resp: 685563

Ion Ratio Lower Upper

96 100

61 161.6 131.6 197.4

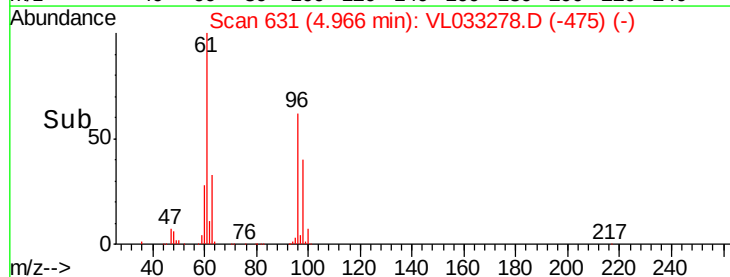
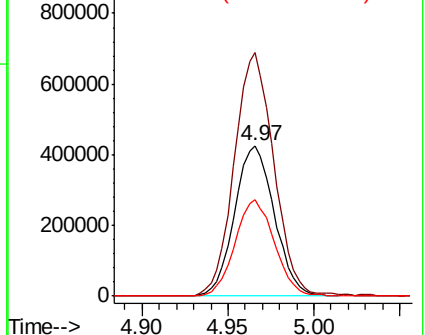
98 64.0 54.1 81.1

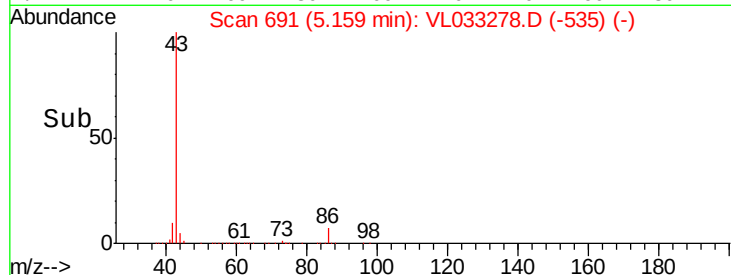
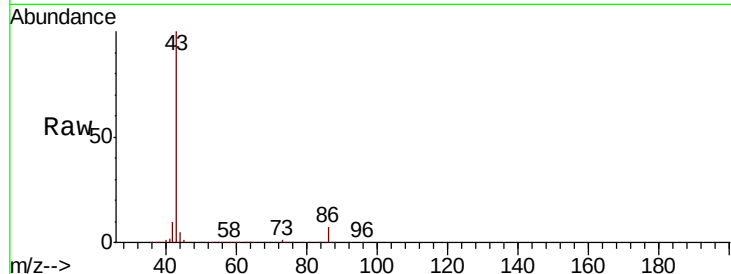
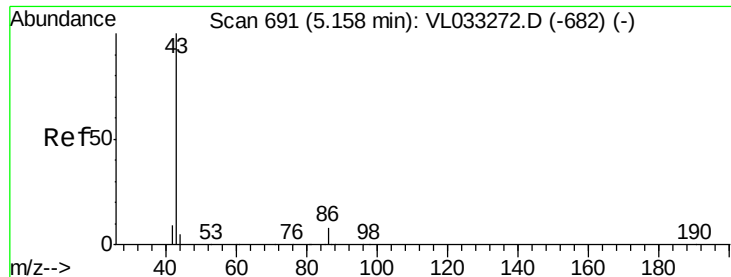


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 15.675 ppbv

RT: 5.16 min Scan# 691

Delta R.T. 0.00 min

Lab File: VL033278.D

Acq: 12 Mar 2019 6:11

Tgt Ion: 43 Resp: 2434644

Ion Ratio Lower Upper

43 100

86 7.2 5.5 8.3

42 10.0 7.8 11.6

44 5.1 3.6 5.4

Instrument :

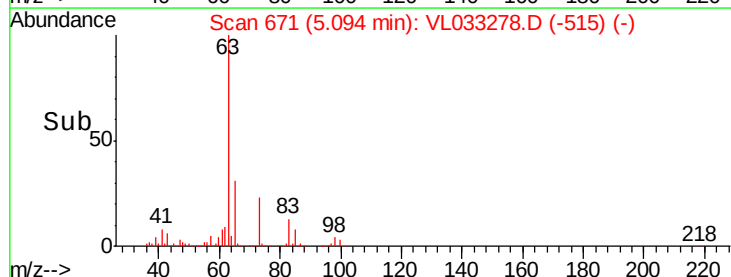
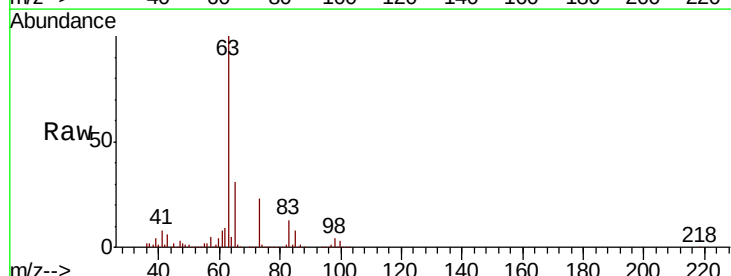
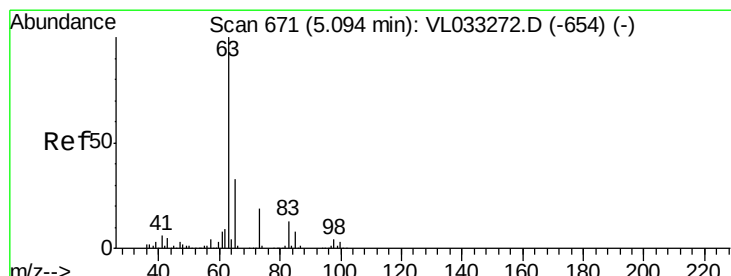
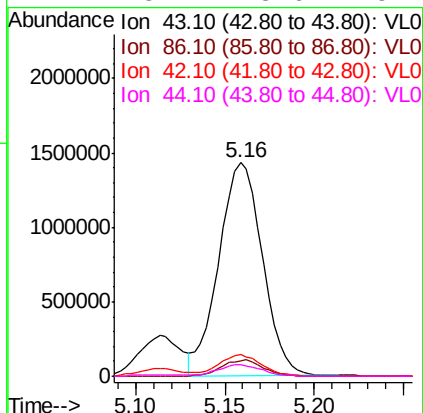
MSVOA_L

ClientSampleId :

VSTDIC015

Manual Integrations
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#24

1,1-Dichloroethane

Concen: 13.891 ppbv

RT: 5.09 min Scan# 671

Delta R.T. 0.00 min

Lab File: VL033278.D

Acq: 12 Mar 2019 6:11

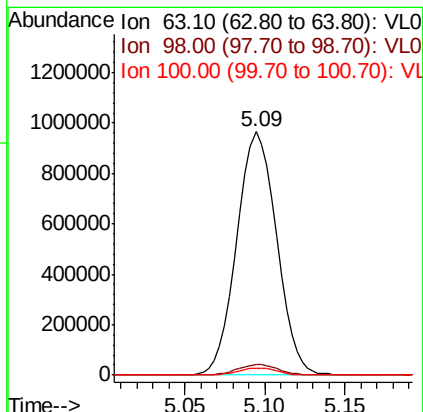
Tgt Ion: 63 Resp: 1636657

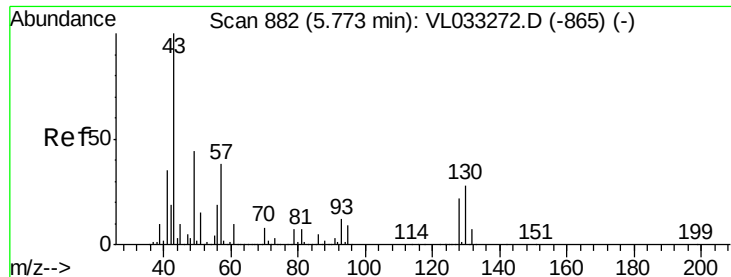
Ion Ratio Lower Upper

63 100

98 4.3 2.2 6.6

100 2.7 1.5 4.4





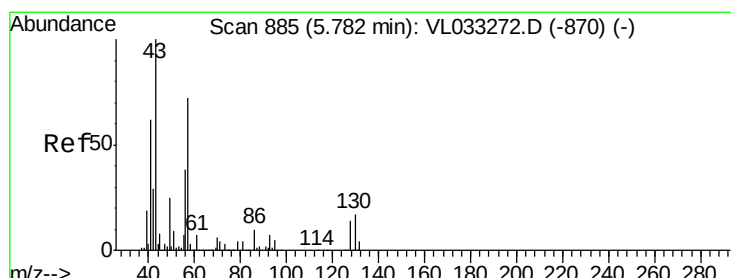
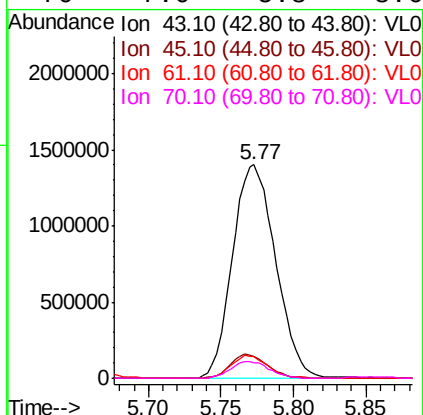
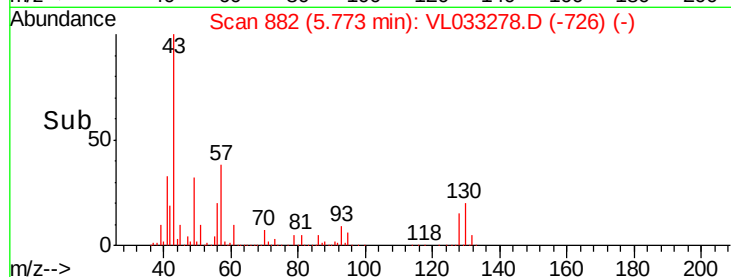
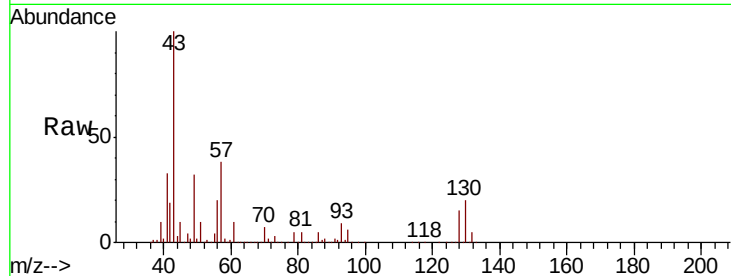
#25
Ethyl Acetate
Concen: 14.071 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.00 min
Lab File: VL033278.D
Acq: 12 Mar 2019 6:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion	Ratio	Lower	Upper
43	100		
45	9.9	7.8	11.6
61	9.2	7.3	10.9
70	7.0	5.8	8.6

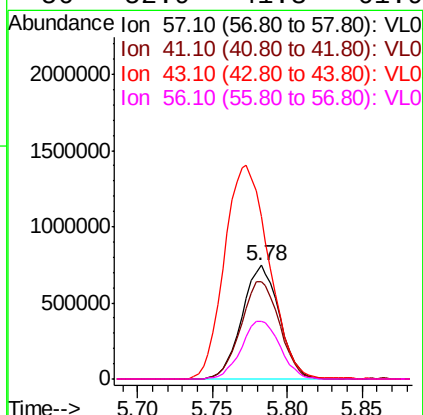
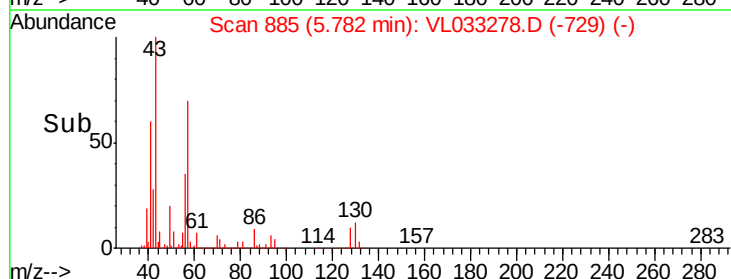
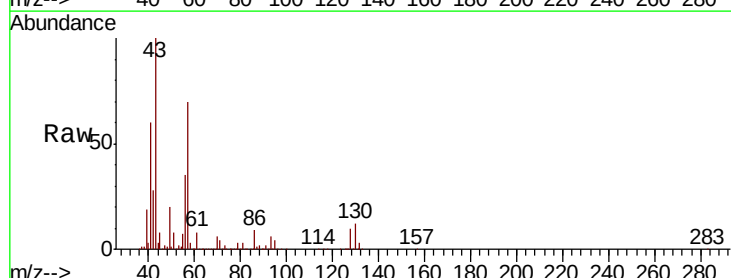
Manual Integrations
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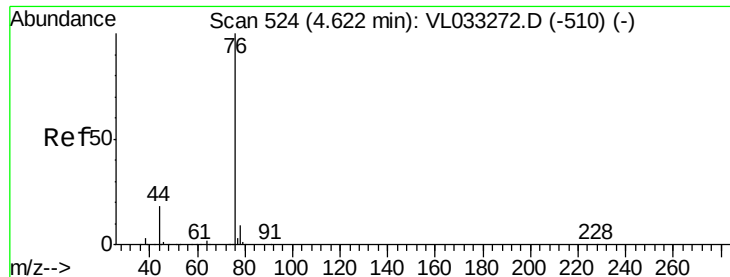
MMDadoda
3/14/2019 5:05:49 AM



#26
Hexane
Concen: 13.382 ppbv
RT: 5.78 min Scan# 885
Delta R.T. 0.00 min
Lab File: VL033278.D
Acq: 12 Mar 2019 6:11

Tgt Ion	Ratio	Lower	Upper
57	100		
41	88.7	70.7	106.1
43	224.1	178.6	267.8
56	52.9	41.3	61.9





#27

Carbon Disulfide

Concen: 16.840 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033278.D

Acq: 12 Mar 2019 6:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 76 Resp: 1647933

Ion Ratio Lower Upper

76 100

44 18.5 15.1 22.7

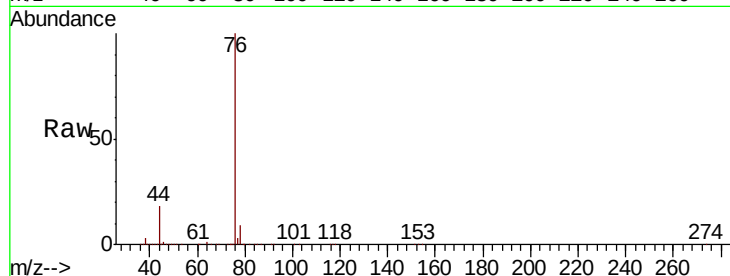
78 9.4 7.4 11.0

Manual Integrations

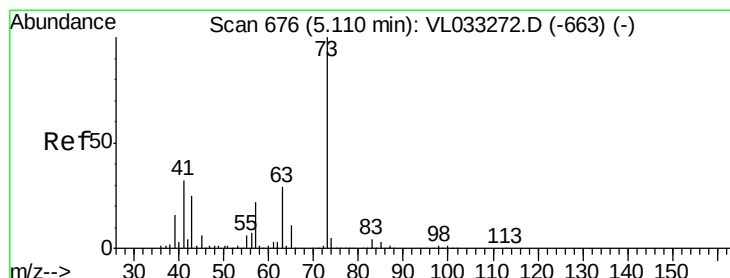
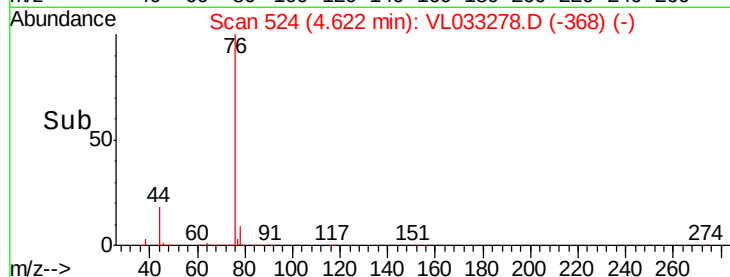
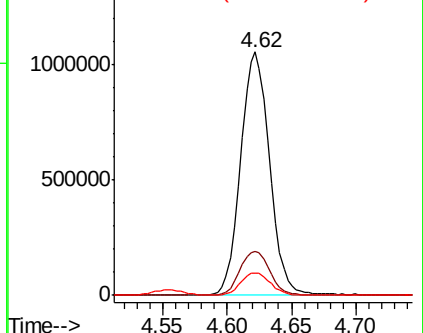
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MMDadoda

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



#28

Methyl tert-Butyl Ether

Concen: 14.878 ppbv

RT: 5.11 min Scan# 677

Delta R.T. 0.00 min

Lab File: VL033278.D

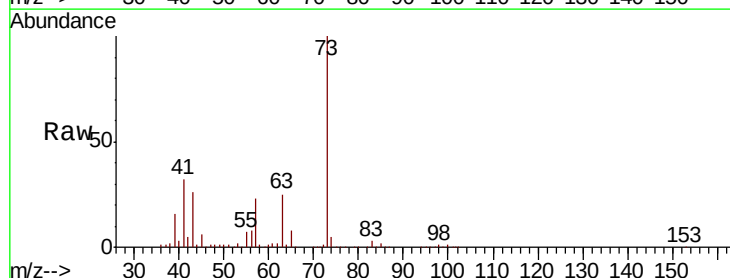
Acq: 12 Mar 2019 6:11

Tgt Ion: 73 Resp: 1896429

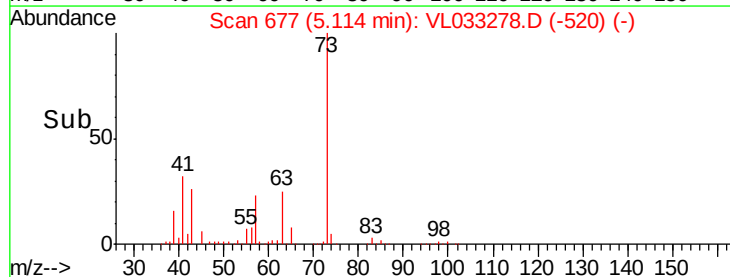
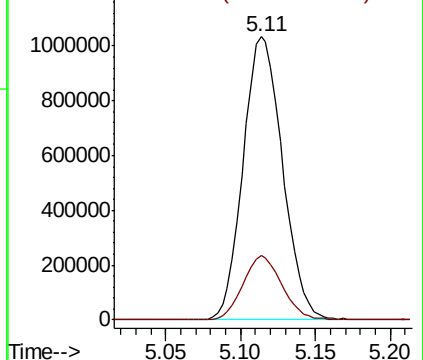
Ion Ratio Lower Upper

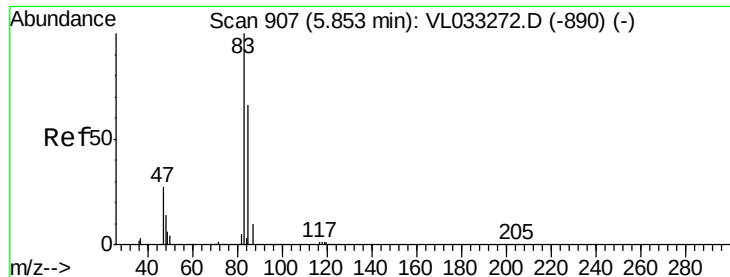
73 100

57 22.4 17.9 26.9



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





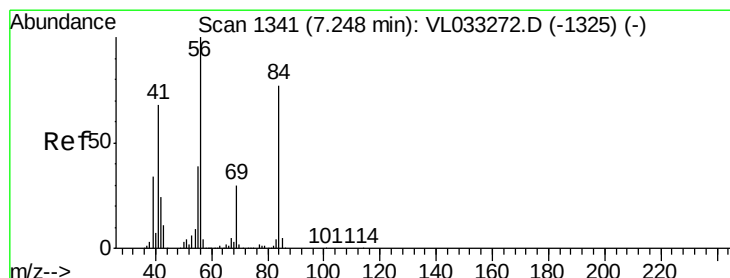
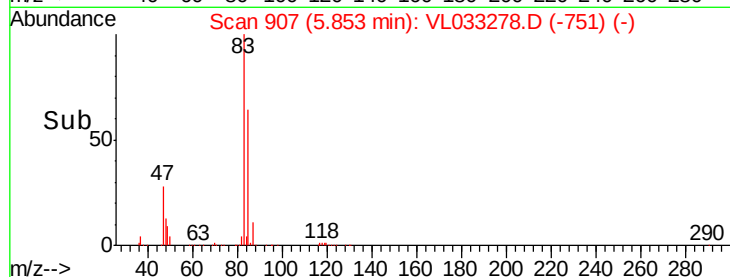
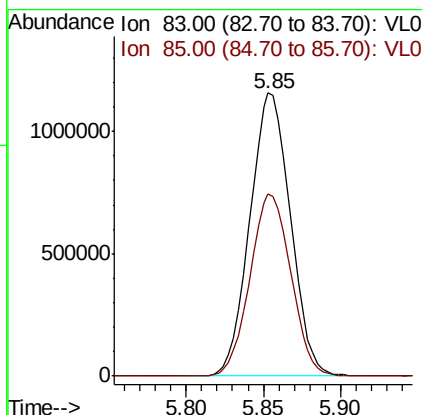
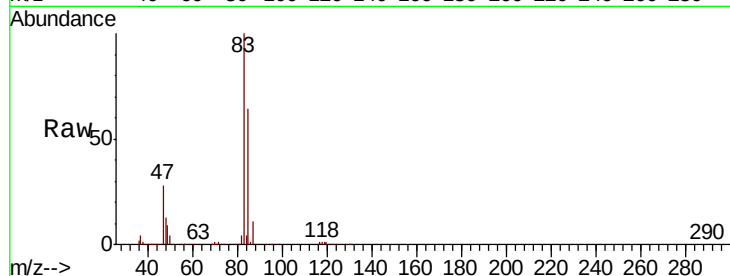
#29
Chloroform
Concen: 14.356 ppbv
RT: 5.85 min Scan# 907
Delta R.T. 0.00 min
Lab File: VL033278.D
Acq: 12 Mar 2019 6:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 83 Resp: 2110876
Ion Ratio Lower Upper
83 100
85 64.1 52.5 78.7

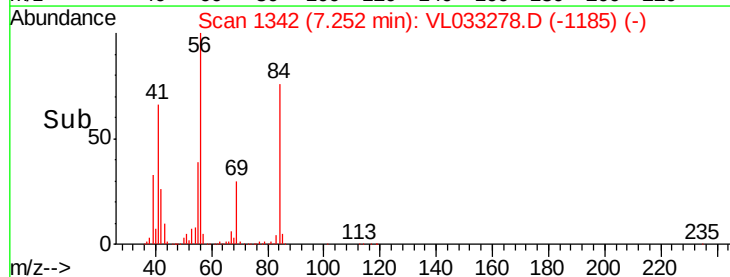
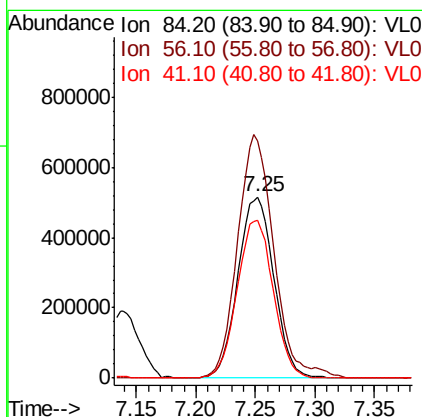
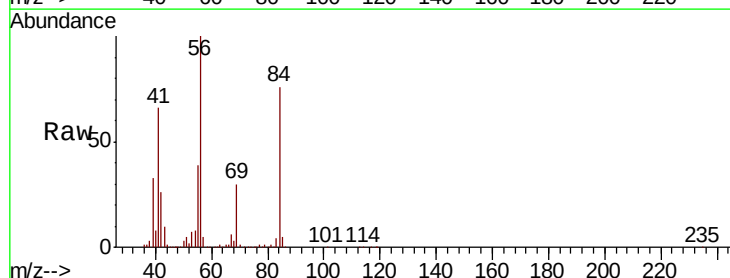
Manual Integrations
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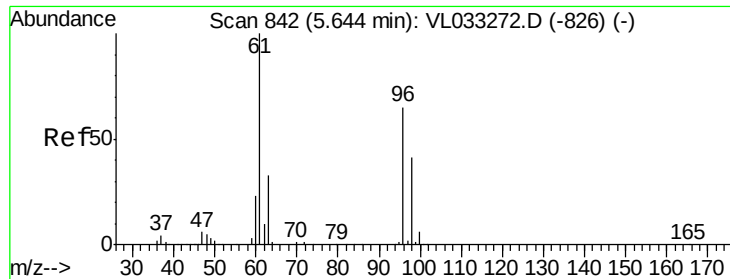
MMDadoda
3/14/2019 5:05:49 AM



#30
Cyclohexane
Concen: 14.885 ppbv
RT: 7.25 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VL033278.D
Acq: 12 Mar 2019 6:11

Tgt Ion: 84 Resp: 1081155
Ion Ratio Lower Upper
84 100
56 136.3 112.0 168.0
41 87.6 69.9 104.9





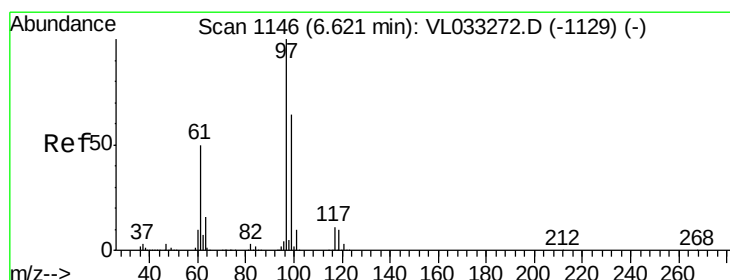
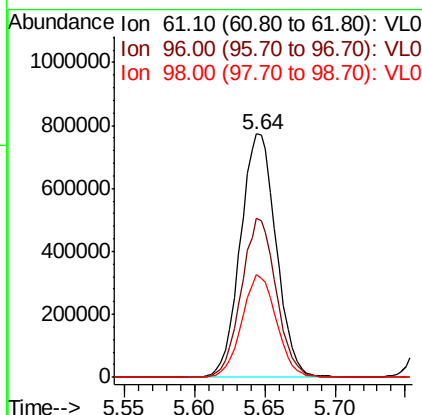
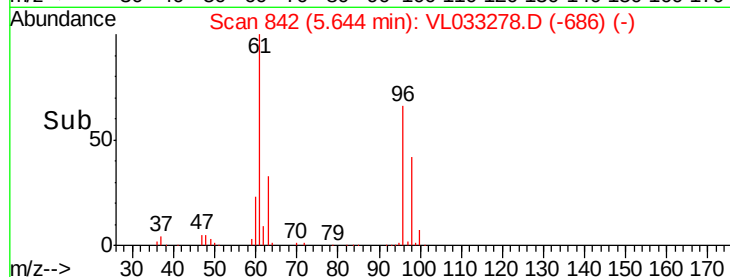
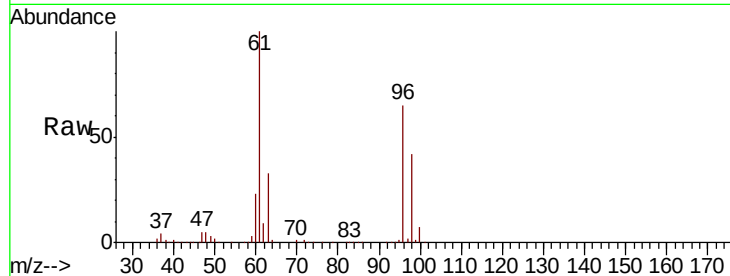
#31
 cis-1,2-Dichloroethene
 Concen: 15.076 ppbv
 RT: 5.64 min Scan# 842
 Delta R.T. 0.00 min
 Lab File: VL033278.D
 Acq: 12 Mar 2019 6:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 61 Resp: 1376907
 Ion Ratio Lower Upper
 61 100
 96 65.5 51.8 77.8
 98 42.0 32.9 49.3

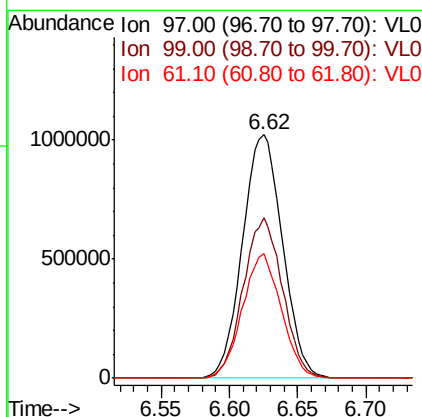
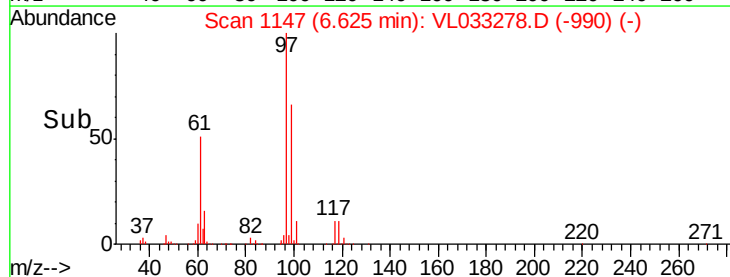
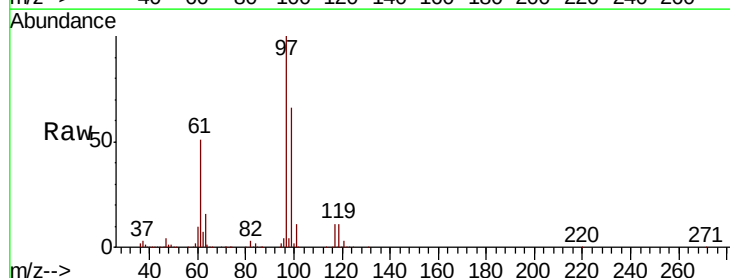
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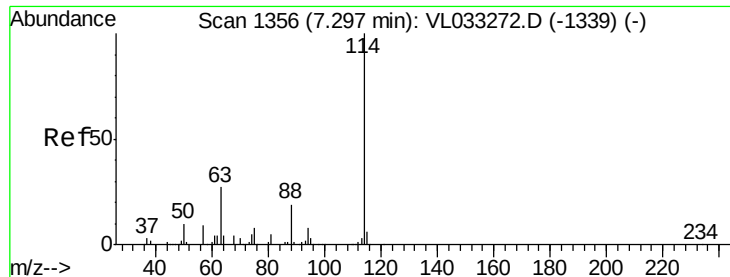
MMDadoda
 3/14/2019 5:05:49 AM



#32
 1,1,1-Trichloroethane
 Concen: 15.043 ppbv
 RT: 6.62 min Scan# 1147
 Delta R.T. 0.00 min
 Lab File: VL033278.D
 Acq: 12 Mar 2019 6:11

Tgt Ion: 97 Resp: 2085514
 Ion Ratio Lower Upper
 97 100
 99 64.6 51.7 77.5
 61 49.7 39.7 59.5





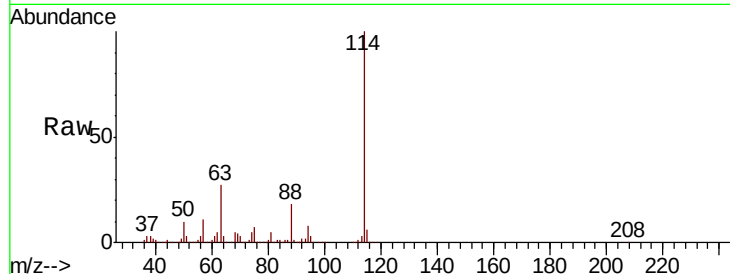
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1357
 Delta R.T. 0.00 min
 Lab File: VL033278.D
 Acq: 12 Mar 2019 6:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

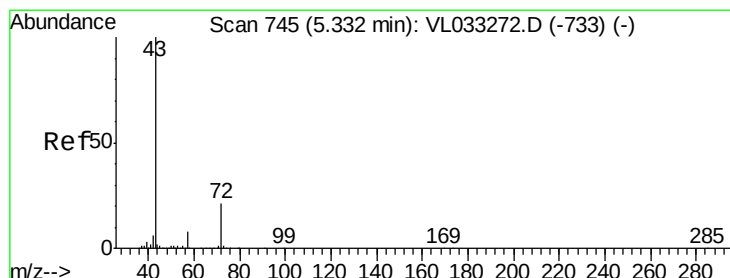
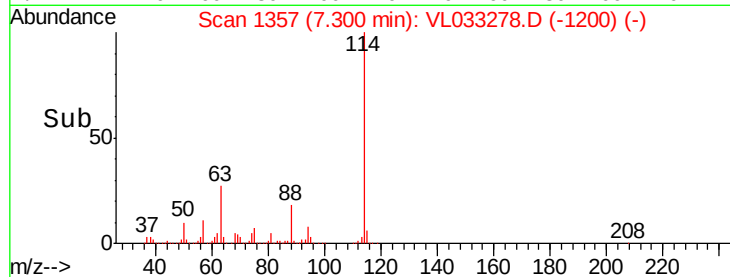
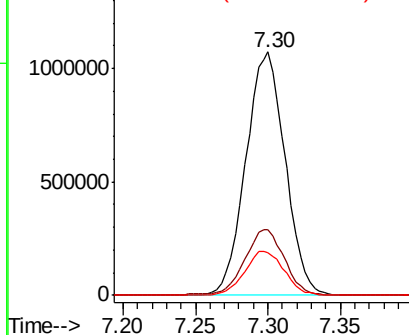
Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.6	21.5	32.3
88	18.3	14.6	22.0

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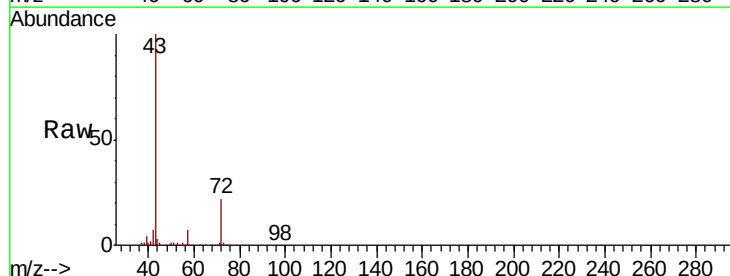


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

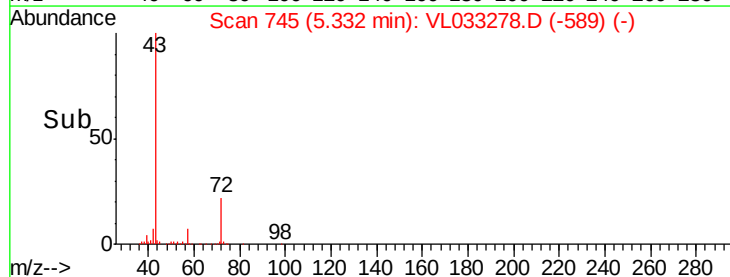
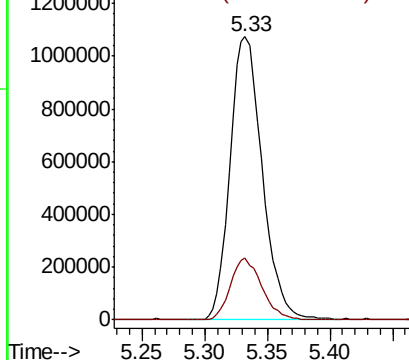


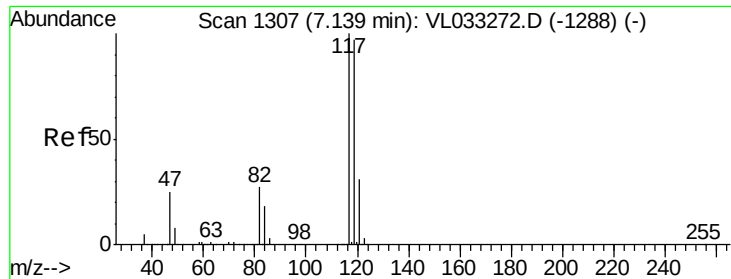
#34
 2-Butanone
 Concen: 15.209 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. 0.00 min
 Lab File: VL033278.D
 Acq: 12 Mar 2019 6:11

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.3	17.0	25.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





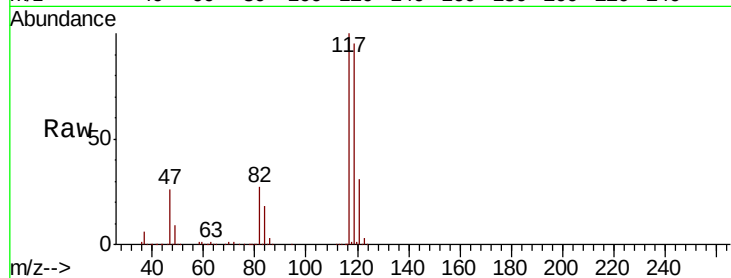
#35
Carbon Tetrachloride
Concen: 15.937 ppbv
RT: 7.14 min Scan# 1307
Delta R.T. 0.00 min
Lab File: VL033278.D
Acq: 12 Mar 2019 6:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

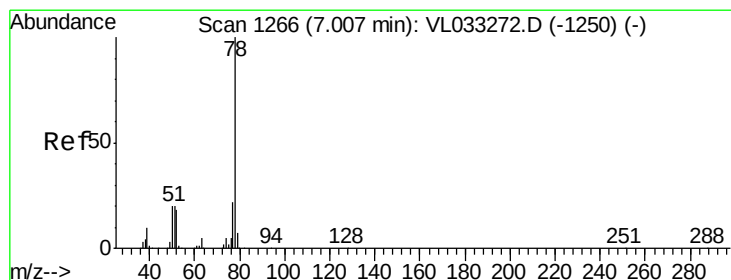
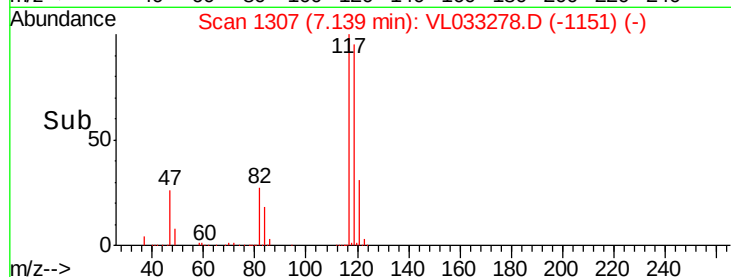
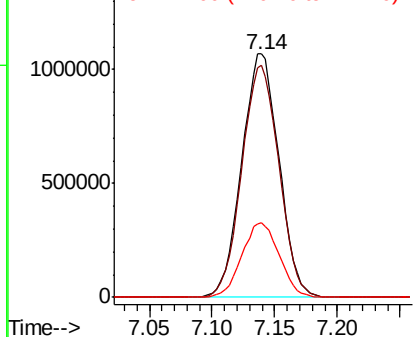
Tgt Ion: 117 Resp: 2207093
Ion Ratio Lower Upper
117 100
119 95.3 77.4 116.0
121 30.8 24.9 37.3

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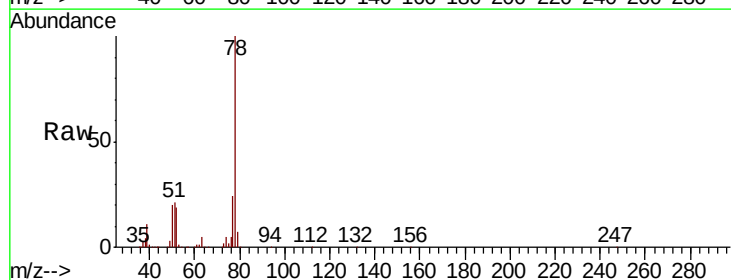


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

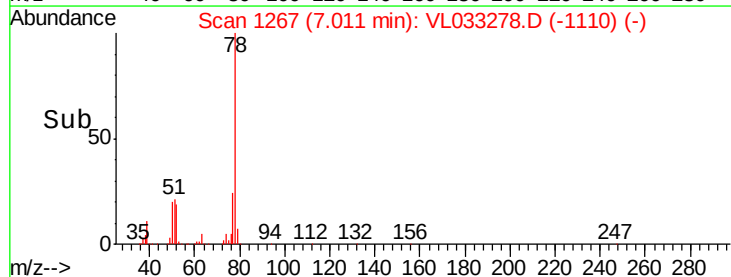
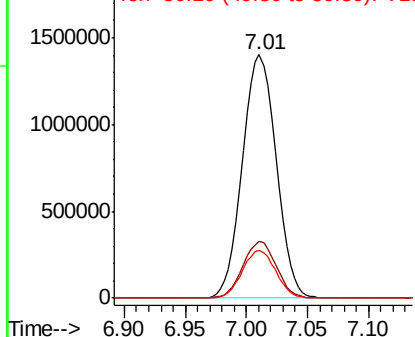


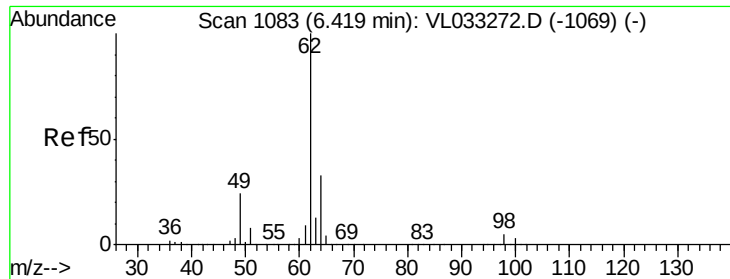
#36
Benzene
Concen: 15.039 ppbv
RT: 7.01 min Scan# 1267
Delta R.T. 0.00 min
Lab File: VL033278.D
Acq: 12 Mar 2019 6:11

Tgt Ion: 78 Resp: 2688077
Ion Ratio Lower Upper
78 100
77 23.5 17.7 26.5
50 19.8 15.7 23.5



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





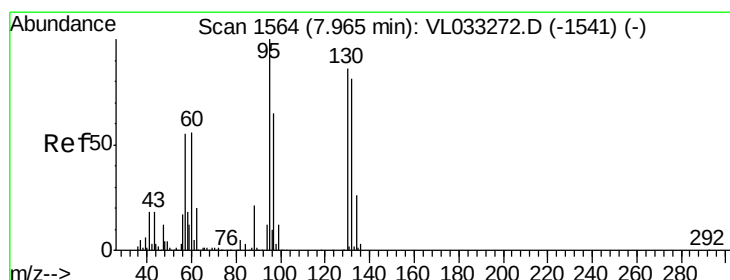
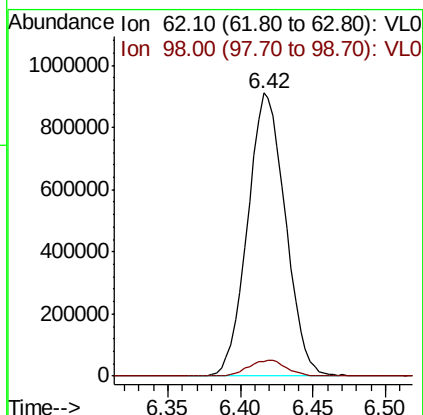
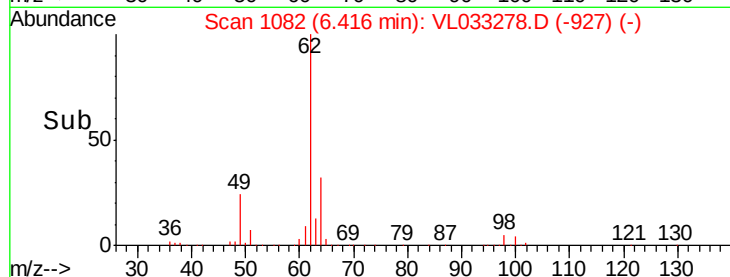
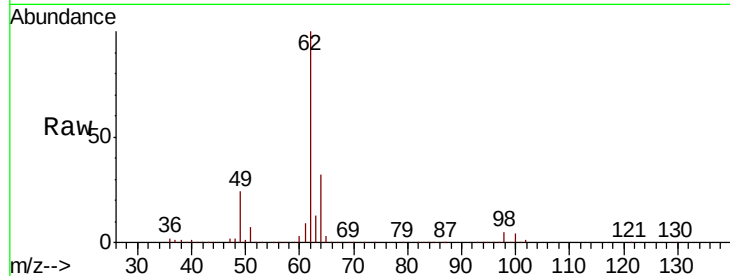
#37
1,2-Dichloroethane
Concen: 14.485 ppbv
RT: 6.42 min Scan# 1082
Delta R.T. -0.00 min
Lab File: VL033278.D
Acq: 12 Mar 2019 6:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 62 Resp: 1653548
Ion Ratio Lower Upper
62 100
98 5.6 4.5 6.7

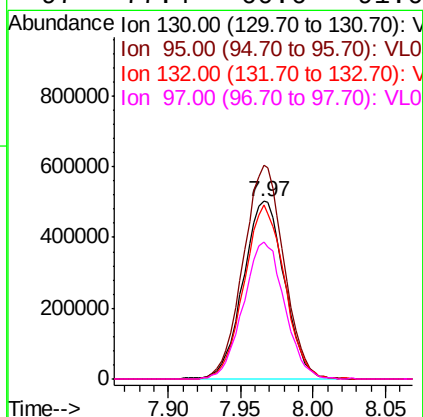
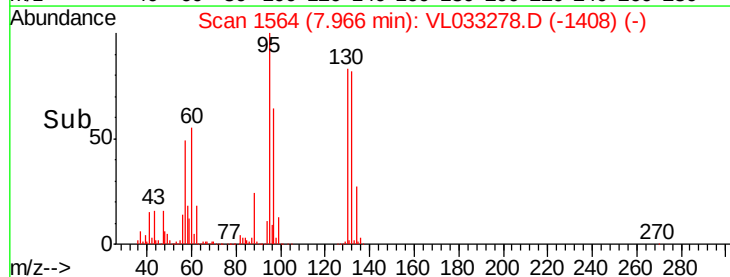
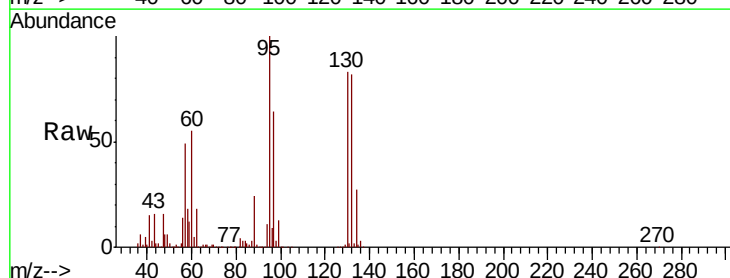
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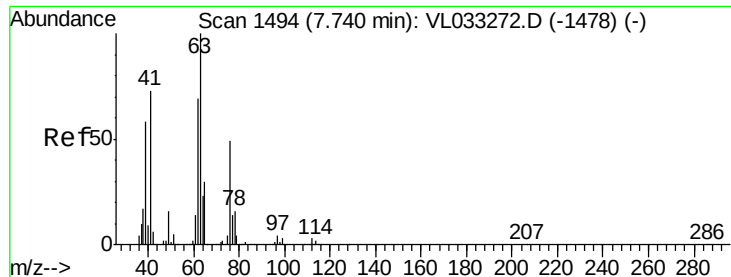
MMDadoda
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#38
Trichloroethene
Concen: 14.629 ppbv
RT: 7.97 min Scan# 1564
Delta R.T. 0.00 min
Lab File: VL033278.D
Acq: 12 Mar 2019 6:11

Tgt Ion: 130 Resp: 989279
Ion Ratio Lower Upper
130 100
95 120.5 93.3 139.9
132 98.5 75.4 113.2
97 77.4 60.6 91.0





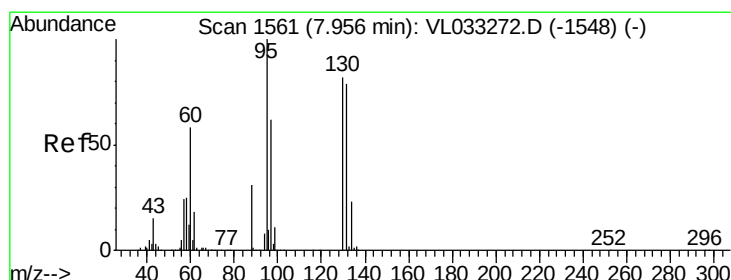
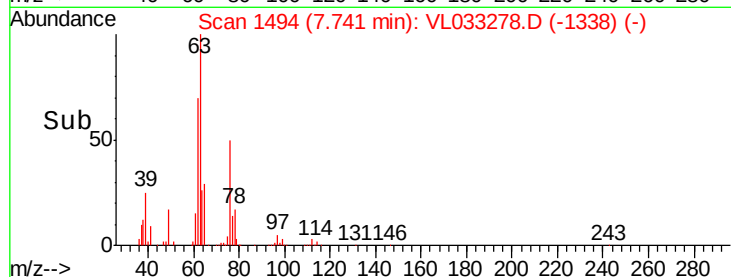
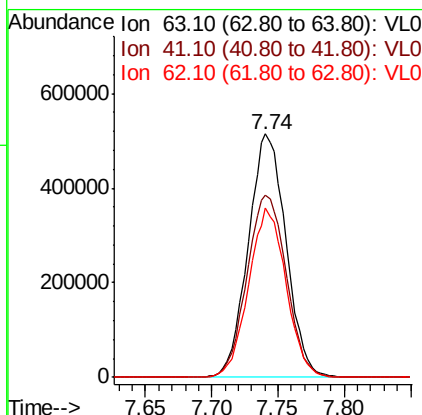
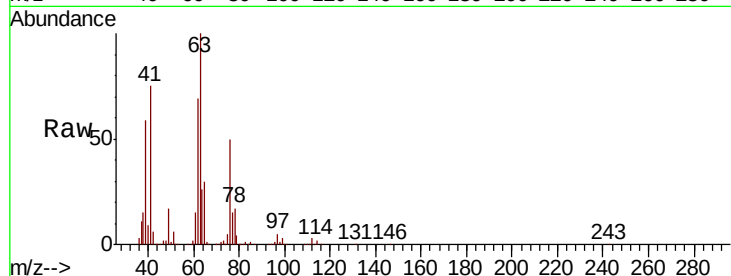
#39
 1,2-Dichloropropane
 Concen: 14.926 ppbv
 RT: 7.74 min Scan# 1494
 Delta R.T. 0.00 min
 Lab File: VL033278.D
 Acq: 12 Mar 2019 6:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion	Ratio	Lower	Upper
63	100		
41	74.8	58.3	87.5
62	69.5	55.3	82.9

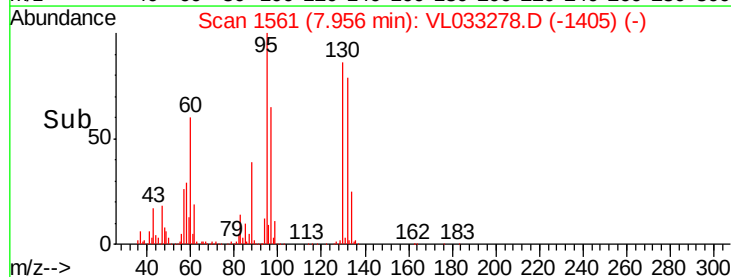
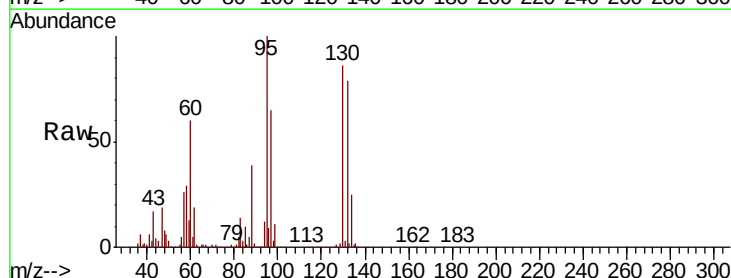
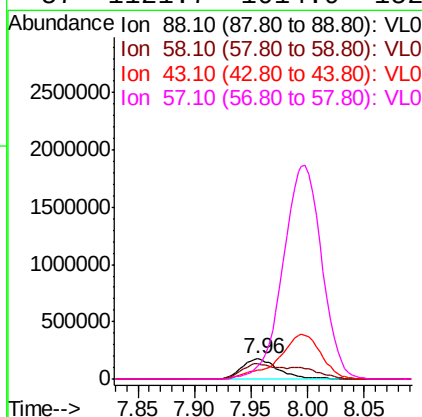
Manual Integrations
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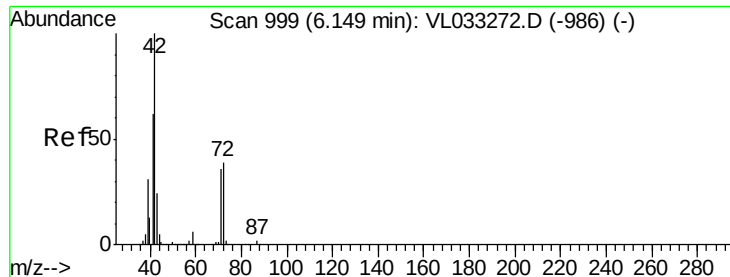
MMDadoda
 3/14/2019 5:05:49 AM



#40
 1,4-Dioxane
 Concen: 15.807 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. 0.00 min
 Lab File: VL033278.D
 Acq: 12 Mar 2019 6:11

Tgt Ion	Ratio	Lower	Upper
88	100		
58	125.4	107.0	160.6
43	257.0	230.2	345.4
57	1121.7	1014.9	1522.3





#41

Tetrahydrofuran

Concen: 15.542 ppbv

RT: 6.15 min Scan# 998

Delta R.T. -0.00 min

Lab File: VL033278.D

Acq: 12 Mar 2019 6:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 42 Resp: 1102465

Ion Ratio Lower Upper

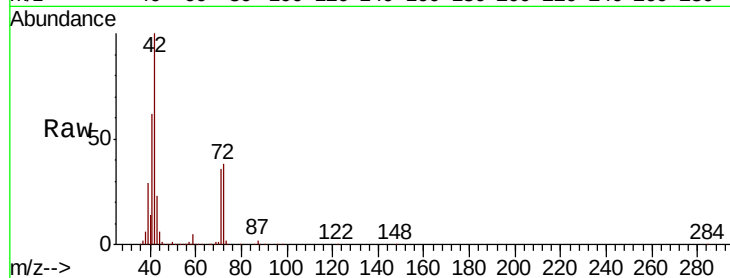
42 100

72 38.2 30.6 46.0

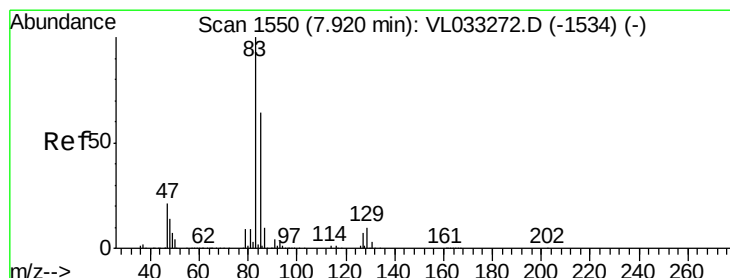
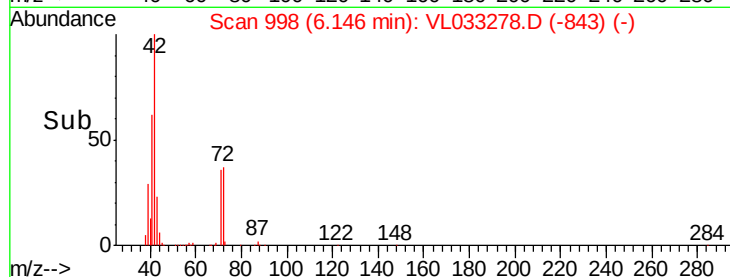
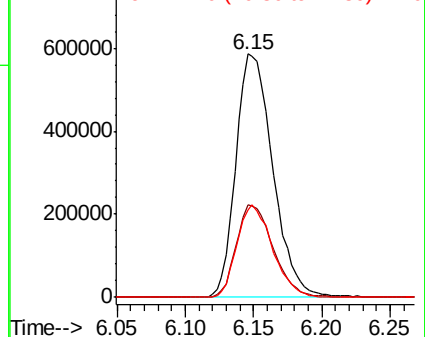
71 37.0 29.7 44.5

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Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#42

Bromodichloromethane

Concen: 15.286 ppbv

RT: 7.92 min Scan# 1551

Delta R.T. 0.00 min

Lab File: VL033278.D

Acq: 12 Mar 2019 6:11

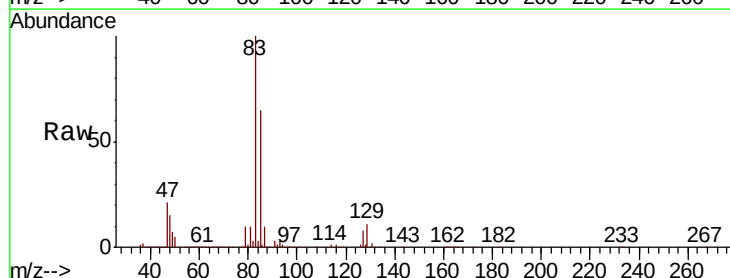
Tgt Ion: 83 Resp: 2327749

Ion Ratio Lower Upper

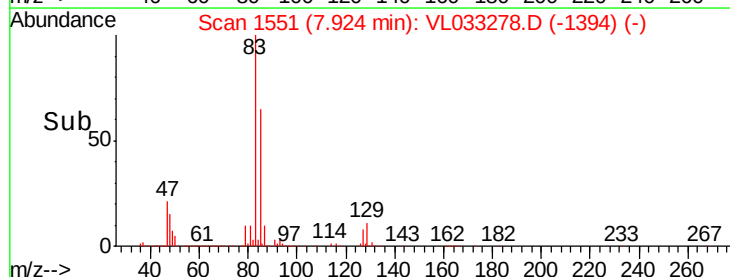
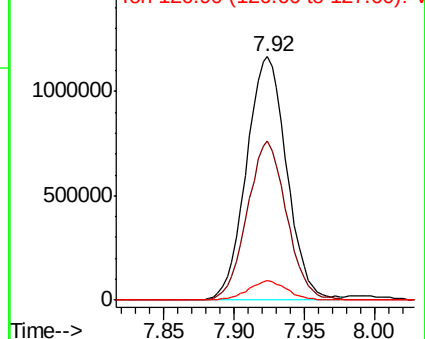
83 100

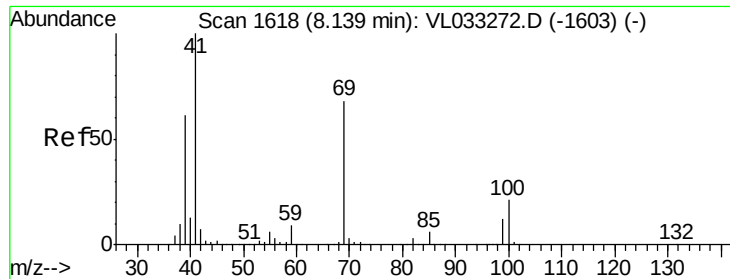
85 65.4 51.0 76.4

127 7.9 6.0 9.0



Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0
Ion 126.90 (126.60 to 127.60): V





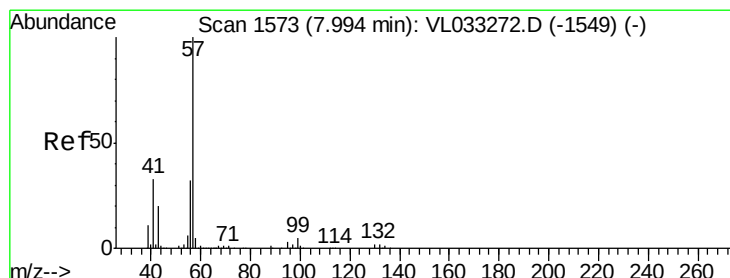
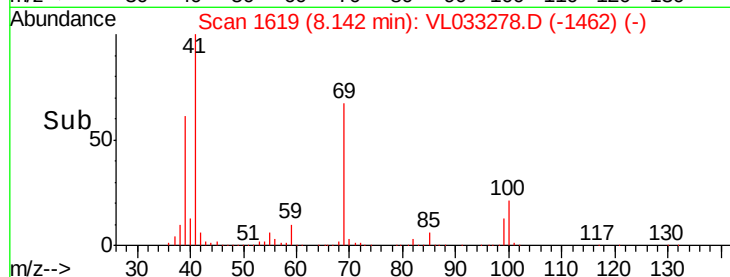
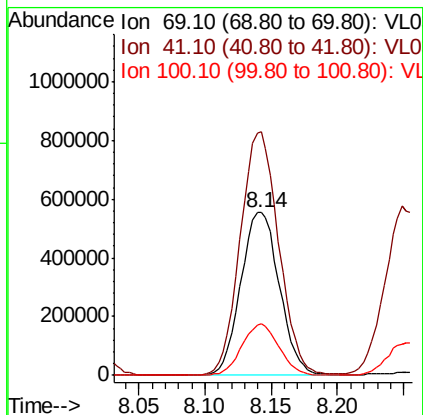
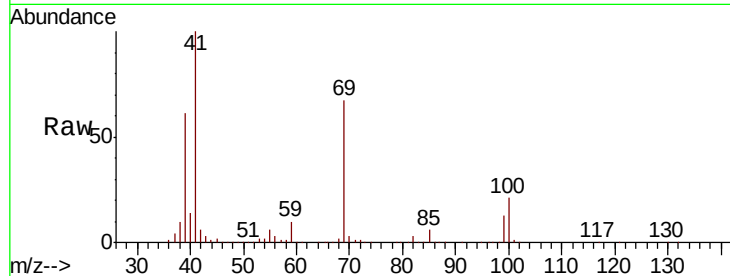
#43
Methyl Methacrylate
Concen: 16.087 ppbv
RT: 8.14 min Scan# 1619
Delta R.T. 0.00 min
Lab File: VL033278.D
Acq: 12 Mar 2019 6:11

Instrument :
MSVOA_L
ClientSampled :
VSTDIC015

Tgt Ion: 69 Resp: 1123053
Ion Ratio Lower Upper
69 100
41 148.8 121.0 181.4
100 30.4 24.4 36.6

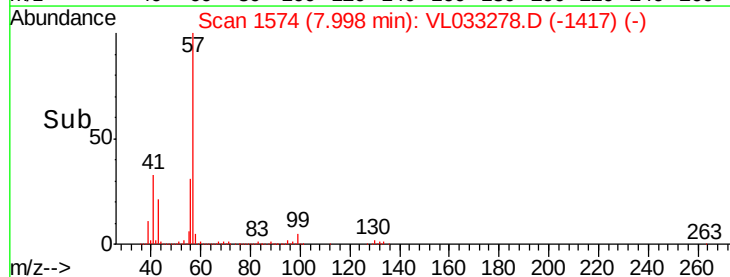
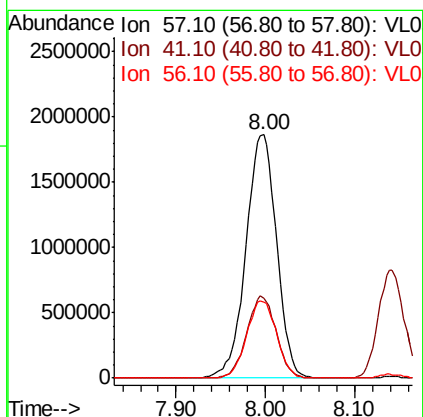
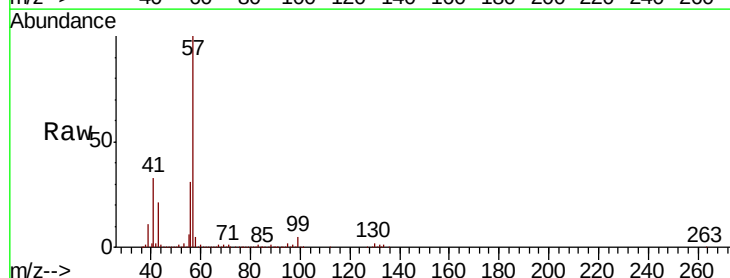
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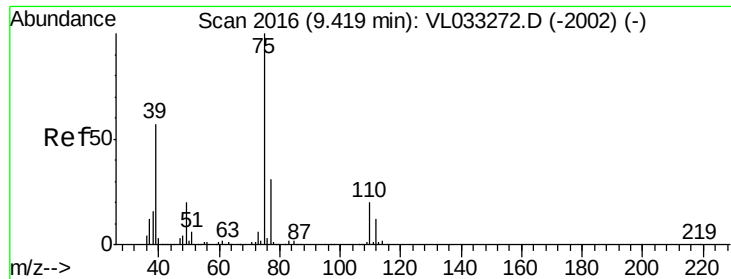
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 14.412 ppbv
RT: 8.00 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VL033278.D
Acq: 12 Mar 2019 6:11

Tgt Ion: 57 Resp: 4442460
Ion Ratio Lower Upper
57 100
41 32.4 26.2 39.2
56 31.1 24.8 37.2





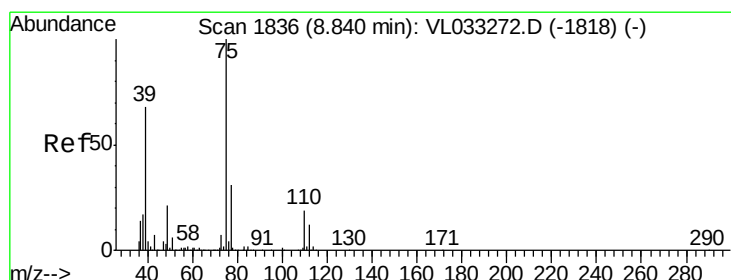
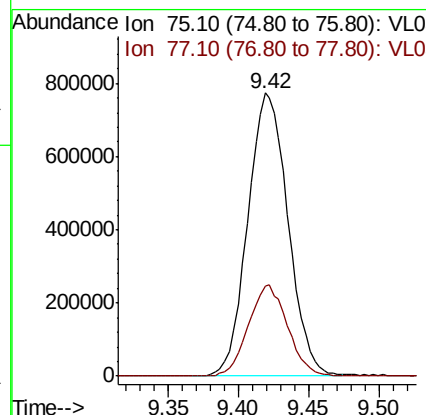
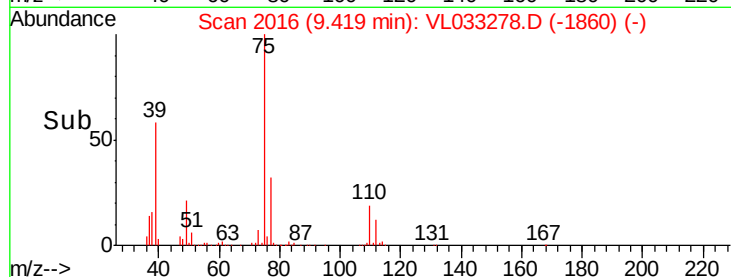
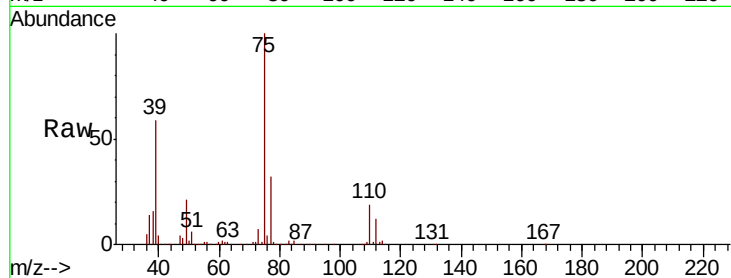
#45
t-1,3-Dichloropropene
Concen: 18.241 ppbv
RT: 9.42 min Scan# 2016
Delta R.T. 0.00 min
Lab File: VL033278.D
Acq: 12 Mar 2019 6:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 75 Resp: 1544064
Ion Ratio Lower Upper
75 100
77 31.8 24.4 36.6

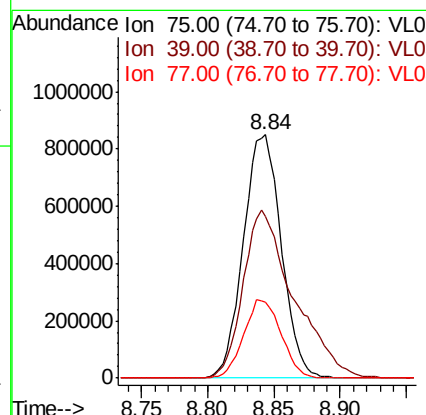
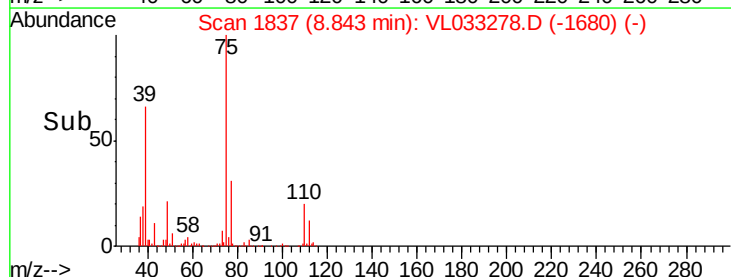
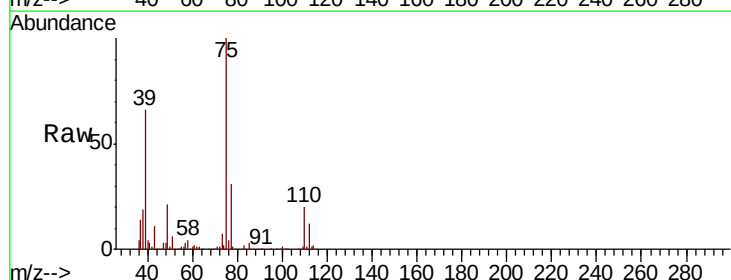
Manual Integrations
APPROVED

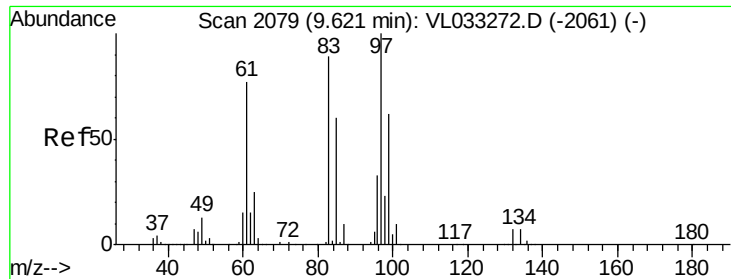
MMDadoda
3/14/2019 5:05:49 AM



#46
cis-1,3-Dichloropropene
Concen: 16.988 ppbv
RT: 8.84 min Scan# 1837
Delta R.T. 0.00 min
Lab File: VL033278.D
Acq: 12 Mar 2019 6:11

Tgt Ion: 75 Resp: 1694418
Ion Ratio Lower Upper
75 100
39 66.4 54.2 81.2
77 31.2 24.5 36.7





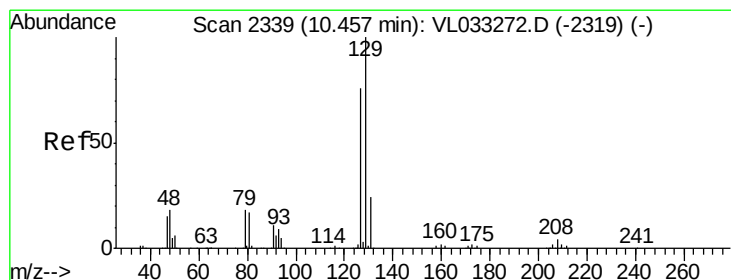
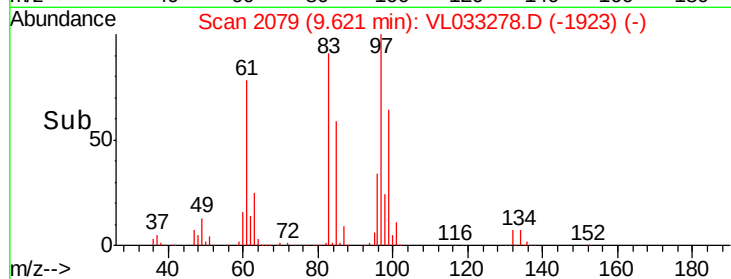
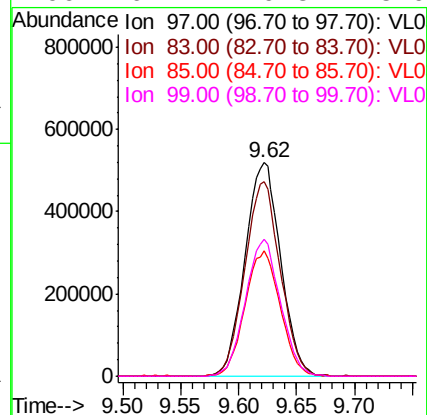
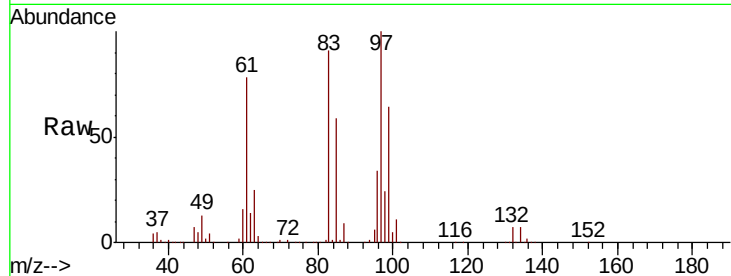
#47
 1,1,2-Trichloroethane
 Concen: 15.156 ppbv
 RT: 9.62 min Scan# 2079
 Delta R.T. 0.00 min
 Lab File: VL033278.D
 Acq: 12 Mar 2019 6:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 97 Resp: 1112653
 Ion Ratio Lower Upper
 97 100
 83 91.4 71.0 106.4
 85 58.6 48.2 72.4
 99 64.4 49.3 73.9

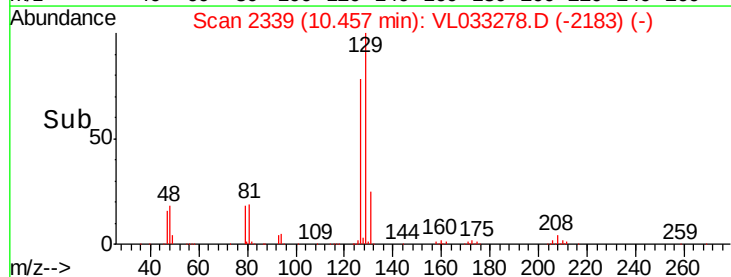
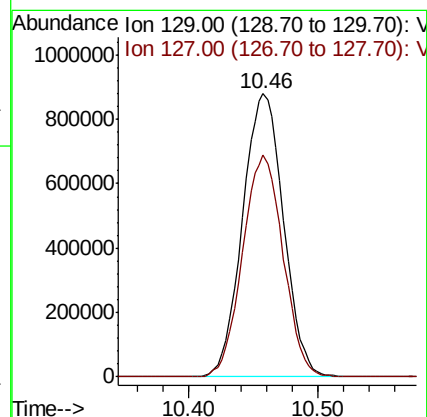
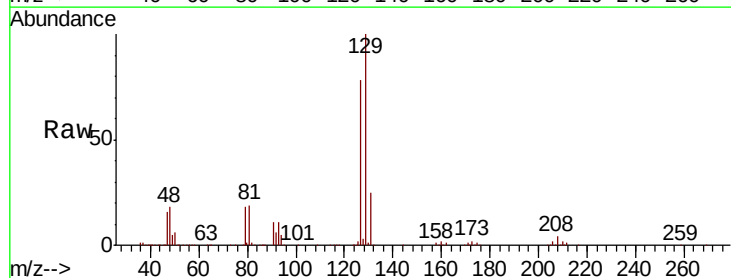
Manual Integrations
 APPROVED

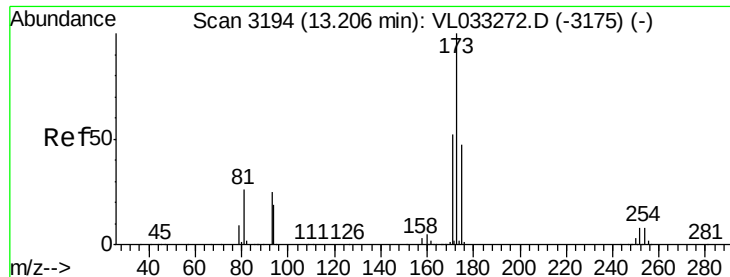
MMDadoda
 3/14/2019 5:05:49 AM



#48
 Dibromochloromethane
 Concen: 16.132 ppbv
 RT: 10.46 min Scan# 2339
 Delta R.T. 0.00 min
 Lab File: VL033278.D
 Acq: 12 Mar 2019 6:11

Tgt Ion: 129 Resp: 1941234
 Ion Ratio Lower Upper
 129 100
 127 77.7 38.9 116.6





#49

Bromoform

Concen: 14.922 ppbv

RT: 13.21 min Scan# 3195

Delta R.T. 0.00 min

Lab File: VL033278.D

Acq: 12 Mar 2019 6:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:173 Resp: 1611245

Ion Ratio Lower Upper

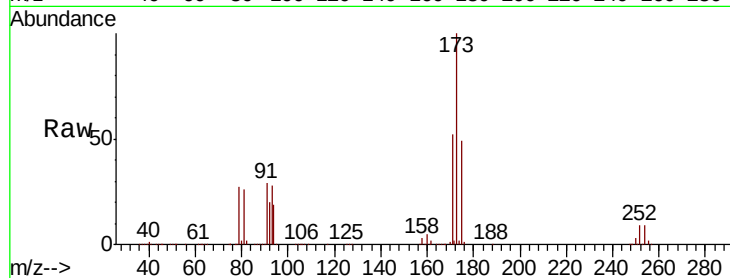
173 100

175 49.0 39.0 58.6

171 52.4 41.2 61.8

Manual Integrations
APPROVED

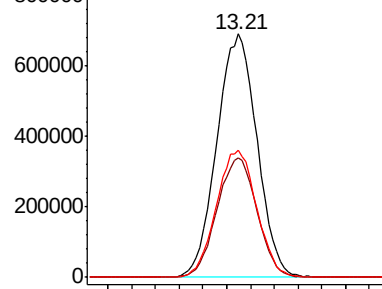
MMDadoda
3/14/2019 5:05:49 AM



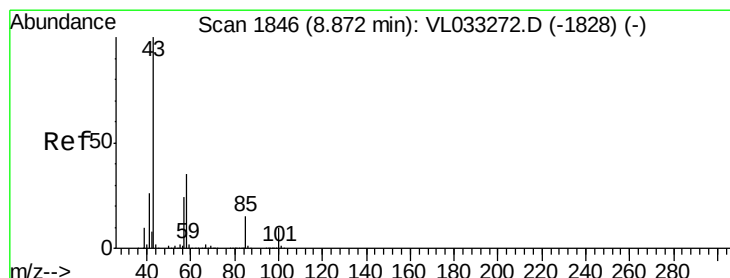
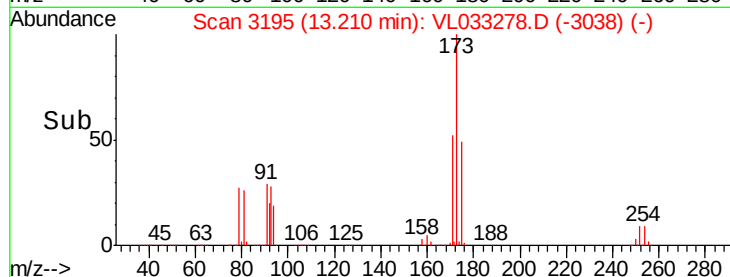
Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



Time-->



#50

4-Methyl-2-Pentanone

Concen: 14.995 ppbv

RT: 8.87 min Scan# 1846

Delta R.T. 0.00 min

Lab File: VL033278.D

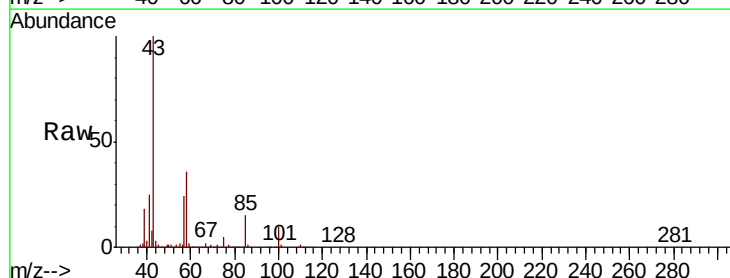
Acq: 12 Mar 2019 6:11

Tgt Ion: 43 Resp: 2769885

Ion Ratio Lower Upper

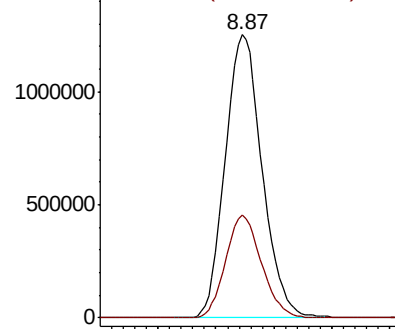
43 100

58 35.4 28.0 42.0

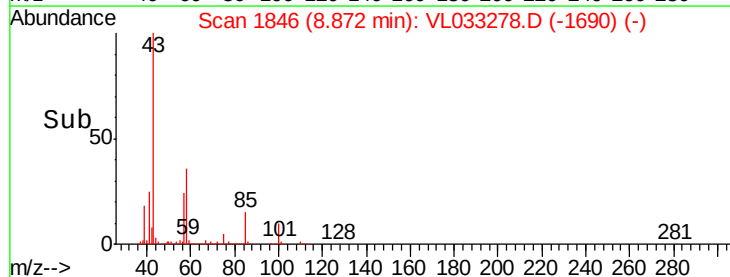


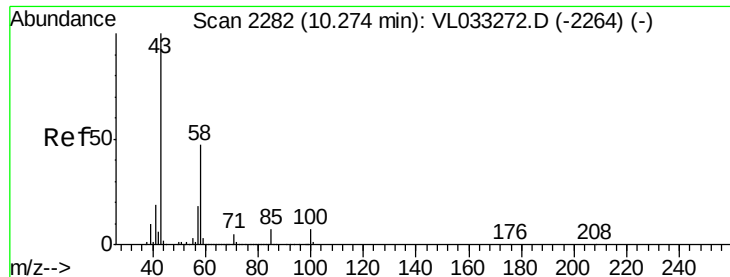
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



Time-->





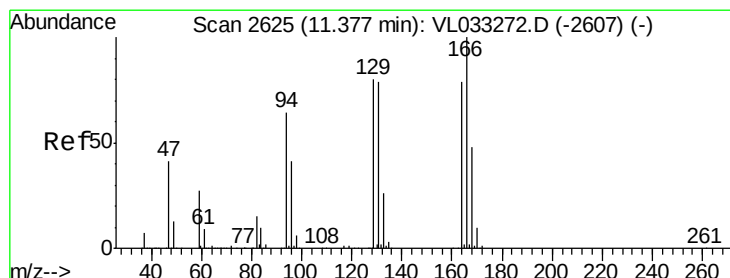
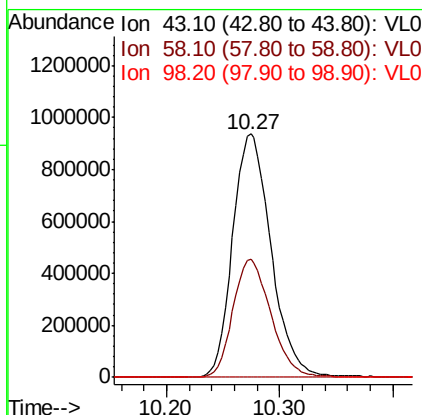
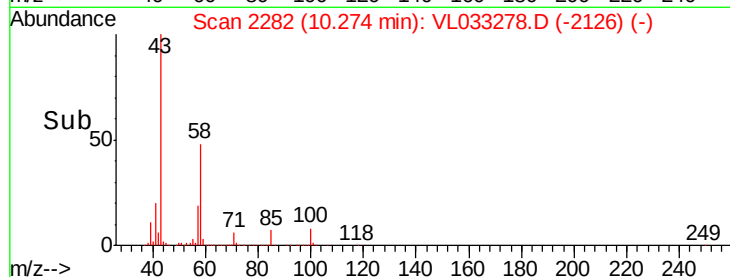
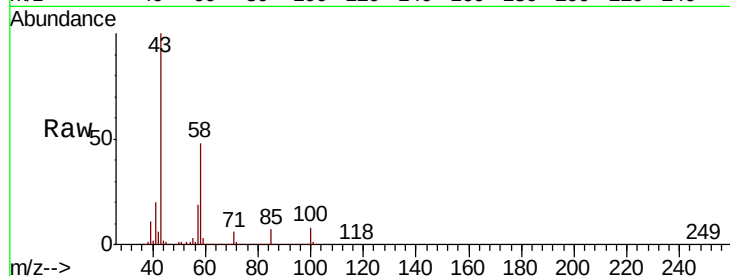
#51
2-Hexanone
Concen: 16.012 ppbv
RT: 10.27 min Scan# 2282
Delta R.T. 0.00 min
Lab File: VL033278.D
Acq: 12 Mar 2019 6:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 43 Resp: 2205212
Ion Ratio Lower Upper
43 100
58 48.3 38.1 57.1
98 0.2 0.1 0.1#

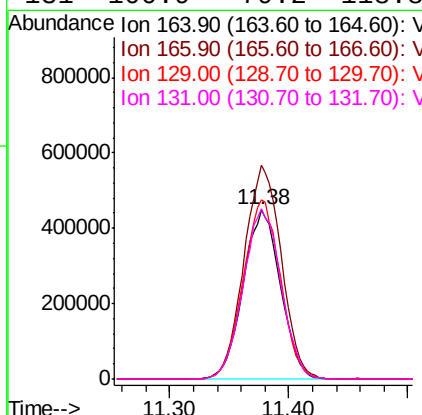
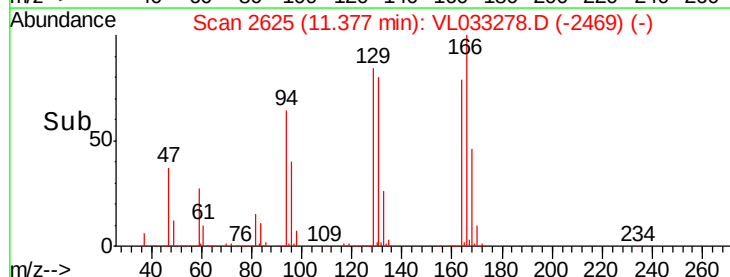
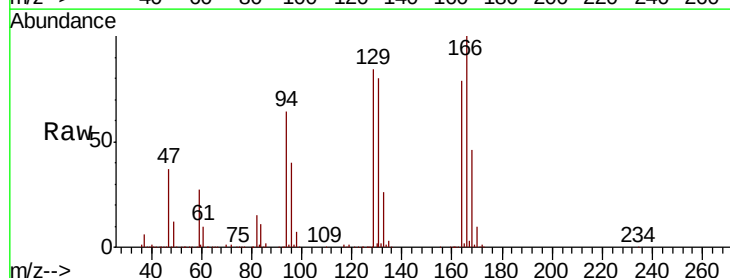
Manual Integrations
APPROVED

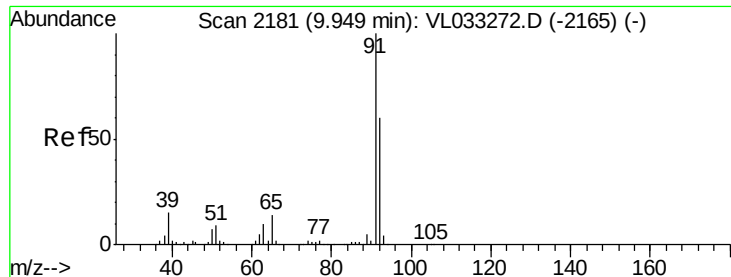
MMDadoda
3/14/2019 5:05:49 AM



#52
Tetrachloroethene
Concen: 14.855 ppbv
RT: 11.38 min Scan# 2625
Delta R.T. 0.00 min
Lab File: VL033278.D
Acq: 12 Mar 2019 6:11

Tgt Ion: 164 Resp: 970559
Ion Ratio Lower Upper
164 100
166 126.1 100.8 151.2
129 105.9 80.6 121.0
131 100.9 79.2 118.8





#53

Toluene

Concen: 15.891 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. 0.00 min

Lab File: VL033278.D

Acq: 12 Mar 2019 6:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion: 91 Resp: 3173515

Ion Ratio Lower Upper

91 100

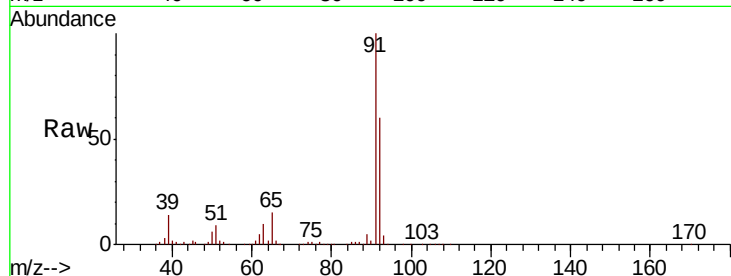
92 59.6 47.8 71.8

Manual Integrations

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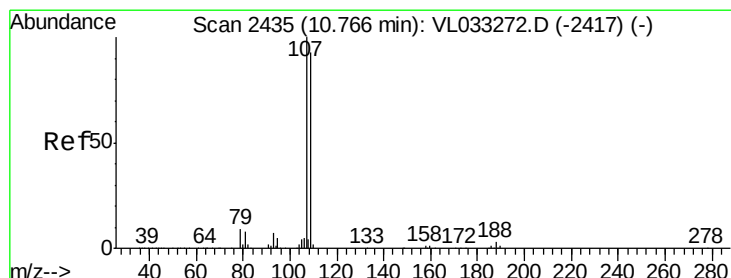
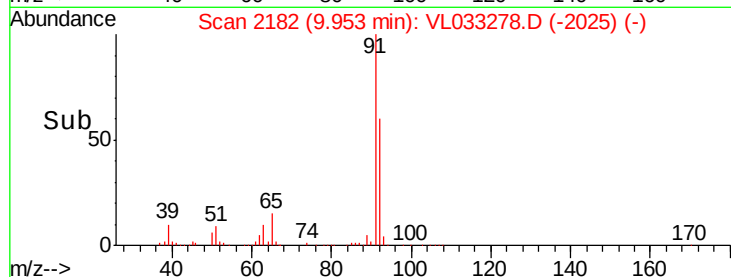
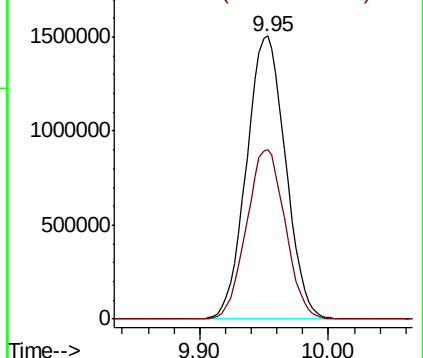
MMDadoda

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 15.011 ppbv

RT: 10.77 min Scan# 2435

Delta R.T. 0.00 min

Lab File: VL033278.D

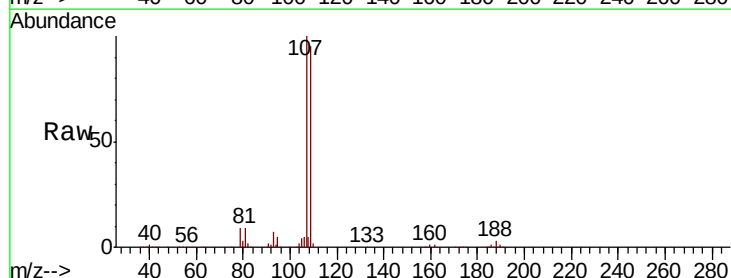
Acq: 12 Mar 2019 6:11

Tgt Ion: 107 Resp: 1728004

Ion Ratio Lower Upper

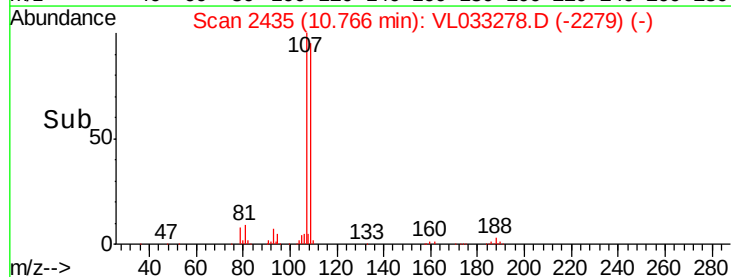
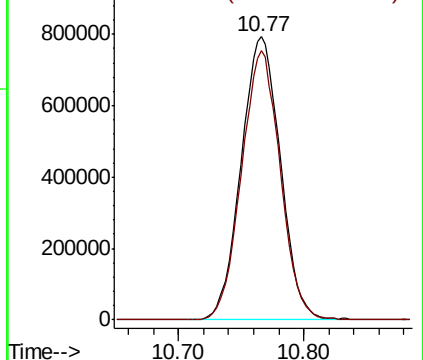
107 100

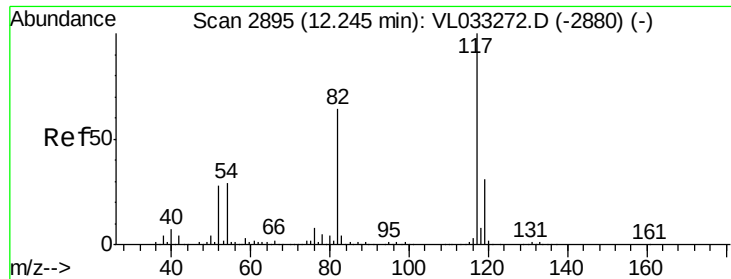
109 95.3 74.2 111.2



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





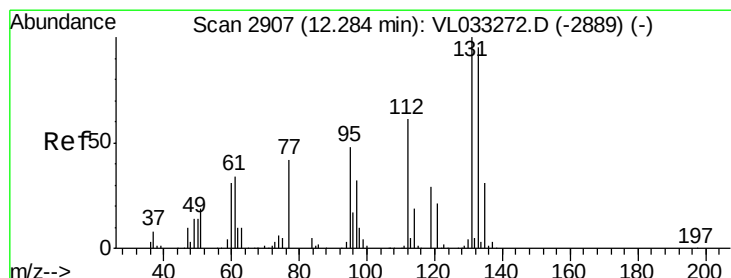
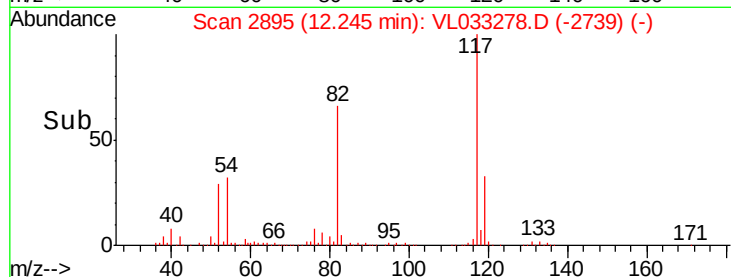
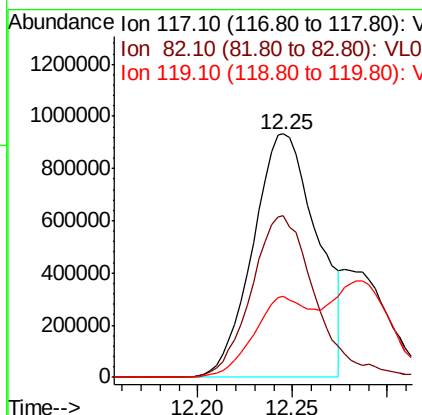
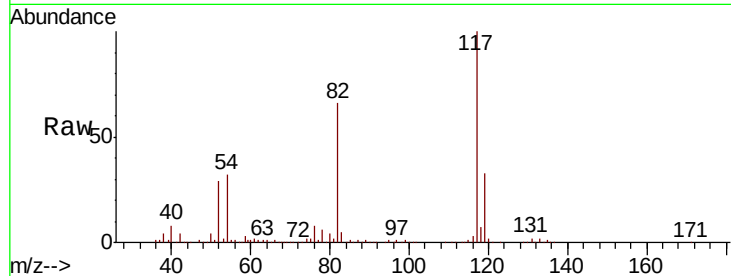
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.25 min Scan# 2895
Delta R.T. 0.00 min
Lab File: VL033278.D
Acq: 12 Mar 2019 6:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion:117 Resp: 2207012
Ion Ratio Lower Upper
117 100
82 66.3 51.1 76.7
119 28.6 43.6 65.4#

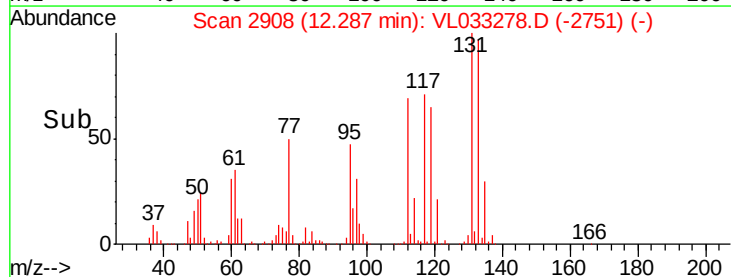
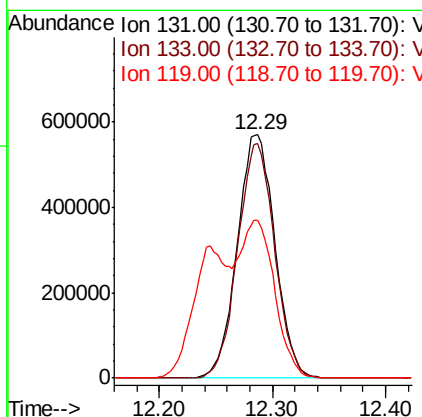
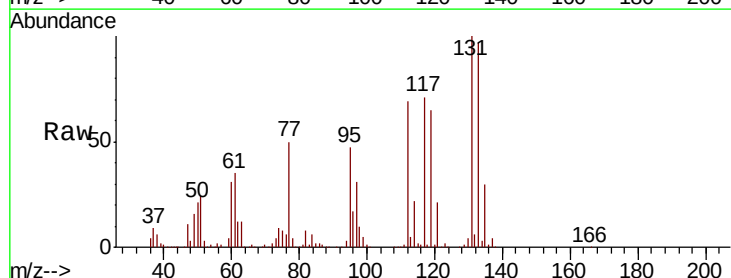
Manual Integrations
APPROVED

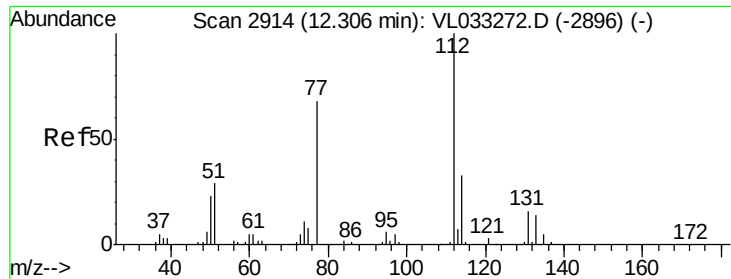
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 14.311 ppbv
RT: 12.29 min Scan# 2908
Delta R.T. 0.00 min
Lab File: VL033278.D
Acq: 12 Mar 2019 6:11

Tgt Ion:131 Resp: 1320266
Ion Ratio Lower Upper
131 100
133 94.8 76.2 114.4
119 68.6 110.3 165.5#





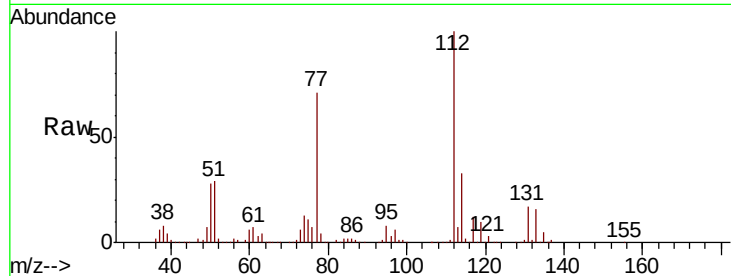
#57
Chlorobenzene
Concen: 13.822 ppbv
RT: 12.31 min Scan# 2915
Delta R.T. 0.00 min
Lab File: VL033278.D
Acq: 12 Mar 2019 6:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

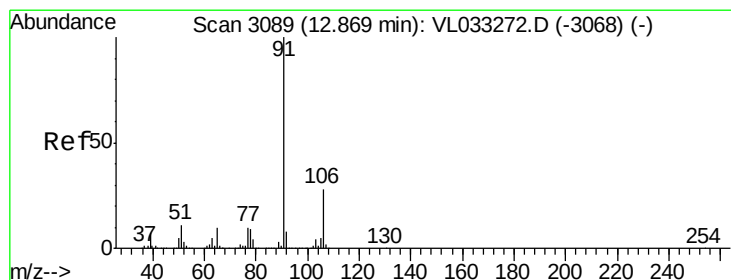
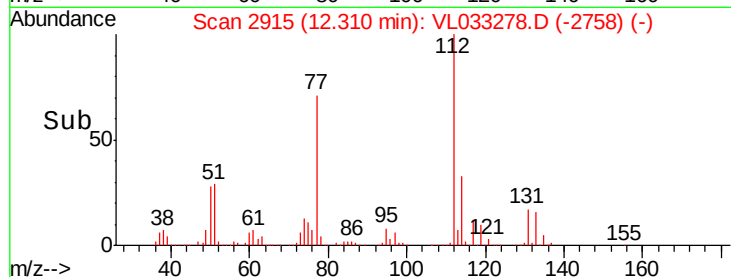
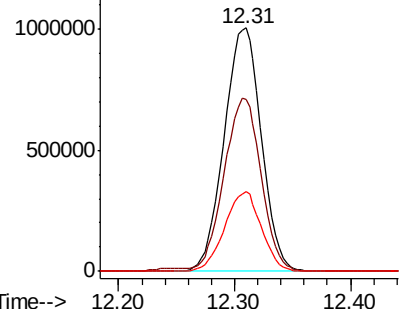
Tgt Ion: 112 Resp: 2243616
Ion Ratio Lower Upper
112 100
77 70.3 55.8 83.8
114 32.8 29.5 36.1

Manual Integrations
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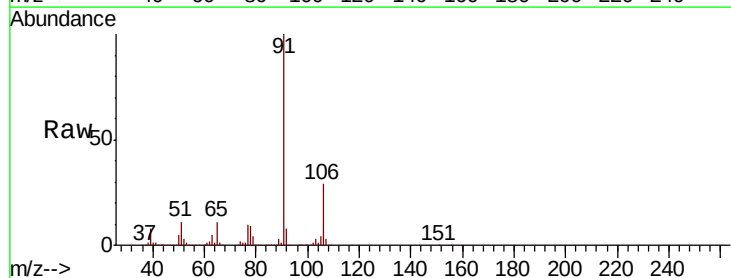


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

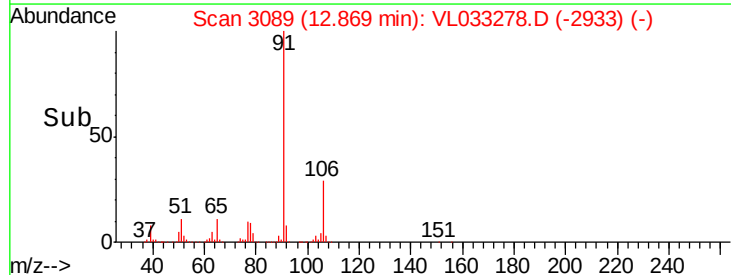
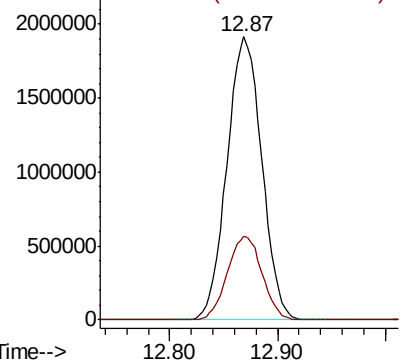


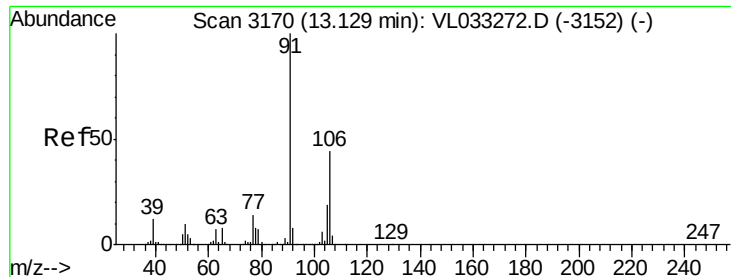
#58
Ethyl Benzene
Concen: 14.370 ppbv
RT: 12.87 min Scan# 3089
Delta R.T. 0.00 min
Lab File: VL033278.D
Acq: 12 Mar 2019 6:11

Tgt Ion: 91 Resp: 4302958
Ion Ratio Lower Upper
91 100
106 29.5 22.5 33.7



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





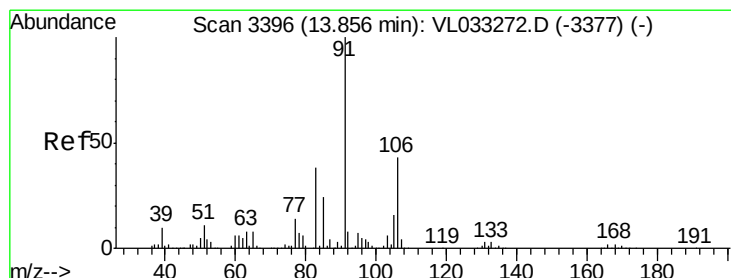
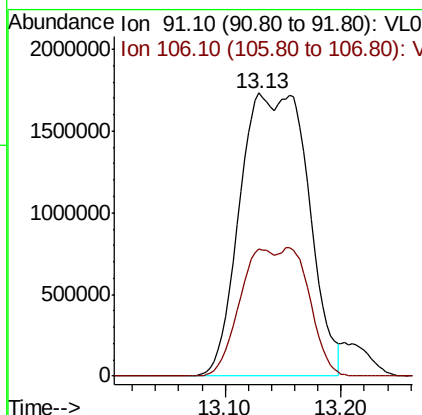
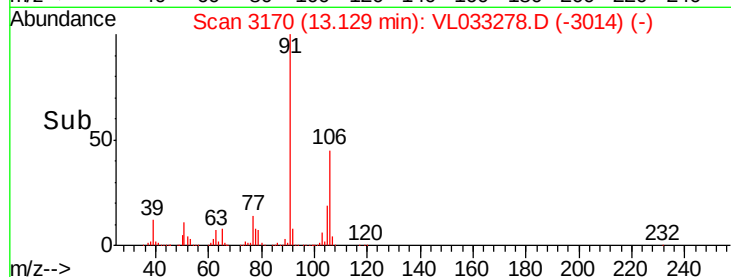
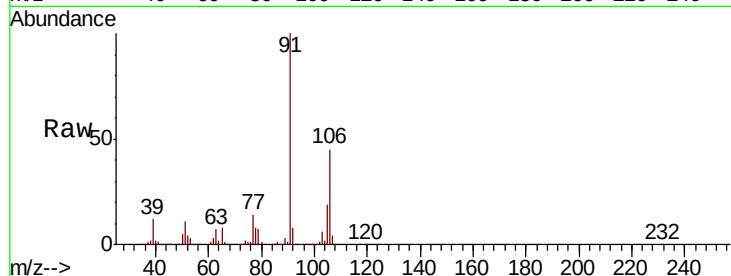
#59
m/p-Xylene
Concen: 26.080 ppbv m
RT: 13.13 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VL033278.D
Acq: 12 Mar 2019 6:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion: 91 Resp: 7059788
Ion Ratio Lower Upper
91 100
106 0.0 35.5 53.3#

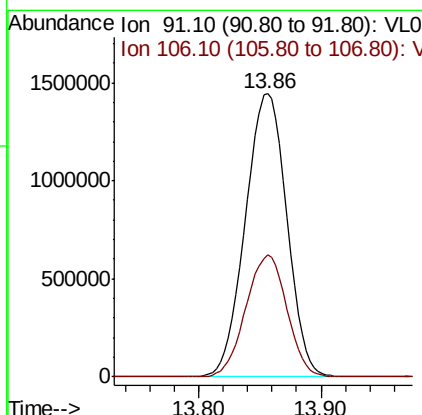
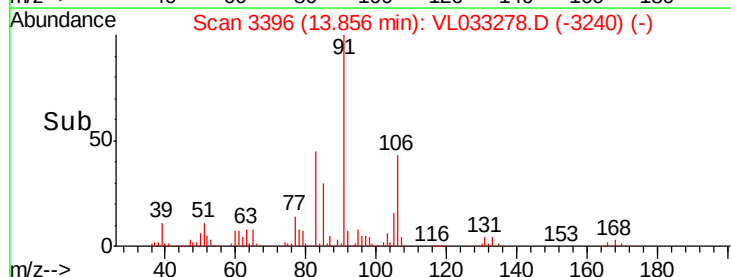
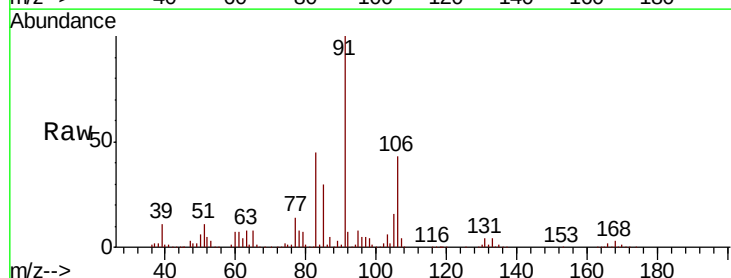
Manual Integrations
APPROVED

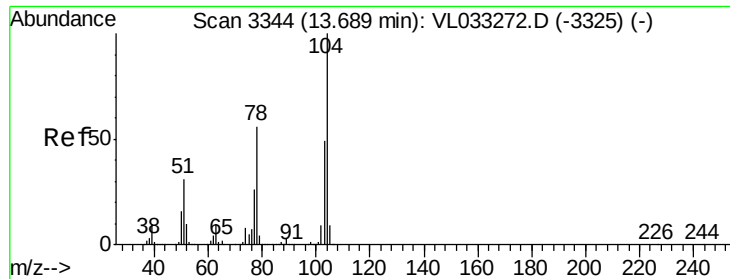
MMDadoda
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#60
o-Xylene
Concen: 12.980 ppbv
RT: 13.86 min Scan# 3396
Delta R.T. 0.00 min
Lab File: VL033278.D
Acq: 12 Mar 2019 6:11

Tgt Ion: 91 Resp: 3390884
Ion Ratio Lower Upper
91 100
106 42.7 21.3 63.7





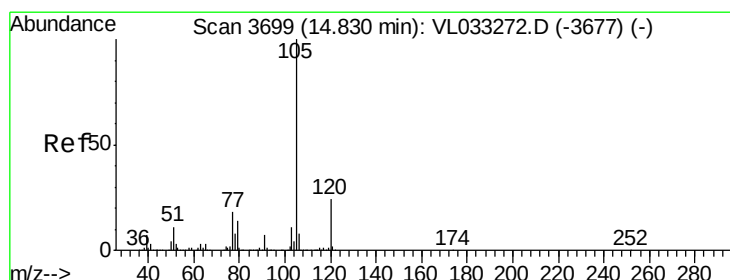
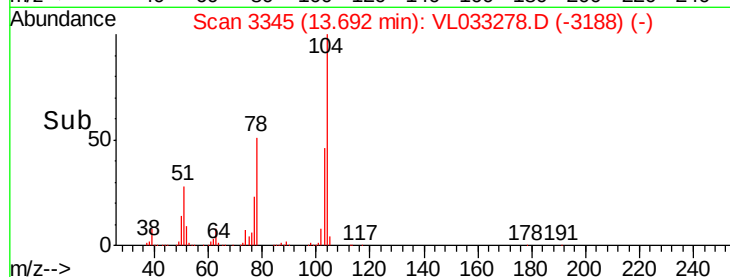
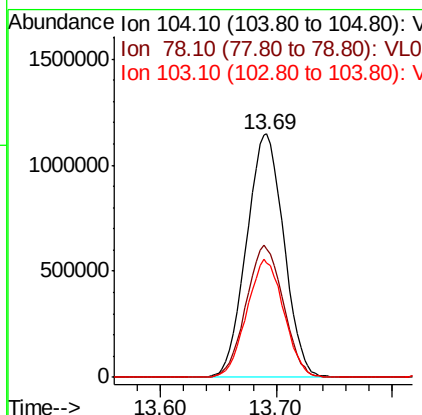
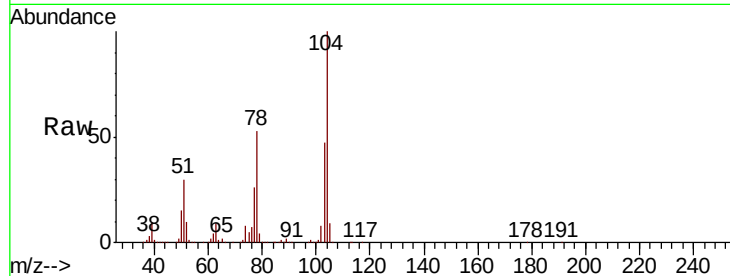
#61
Styrene
Concen: 14.405 ppbv
RT: 13.69 min Scan# 3345
Delta R.T. 0.00 min
Lab File: VL033278.D
Acq: 12 Mar 2019 6:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion	Ratio	Lower	Upper
104	100		
78	54.1	43.3	64.9
103	48.0	38.0	57.0

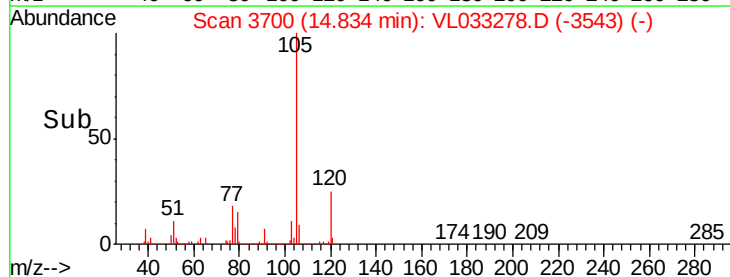
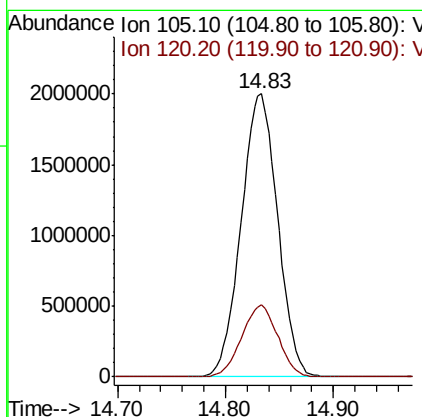
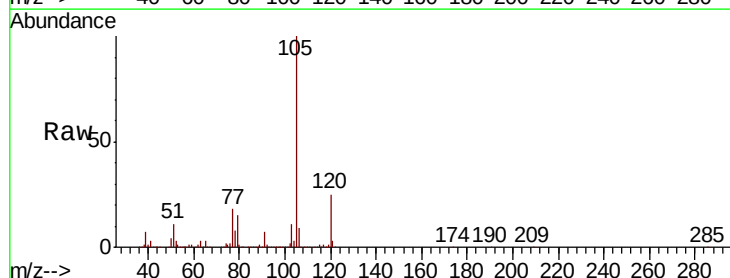
Manual Integrations
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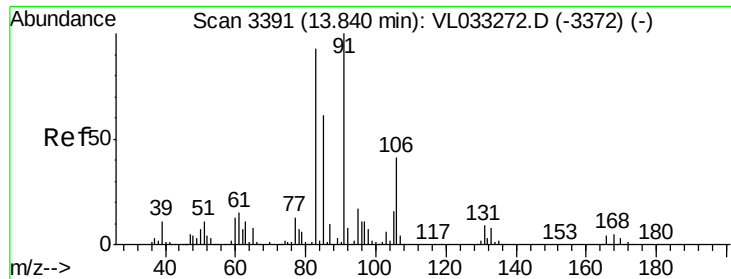
MMDadoda
3/14/2019 5:05:49 AM



#62
Isopropylbenzene
Concen: 13.484 ppbv
RT: 14.83 min Scan# 3700
Delta R.T. 0.00 min
Lab File: VL033278.D
Acq: 12 Mar 2019 6:11

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.1	20.0	30.0





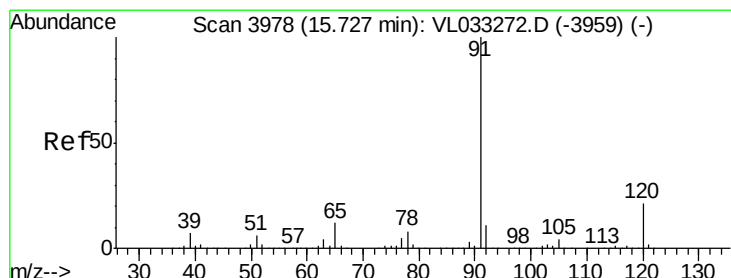
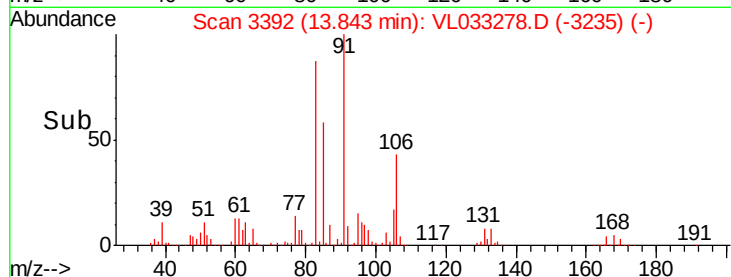
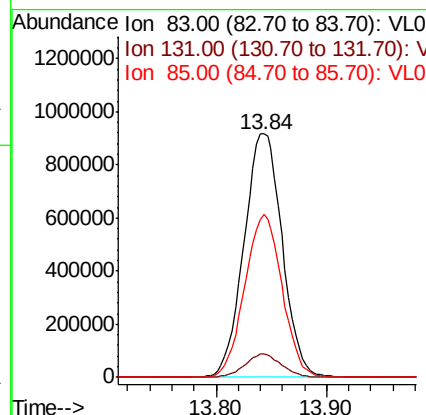
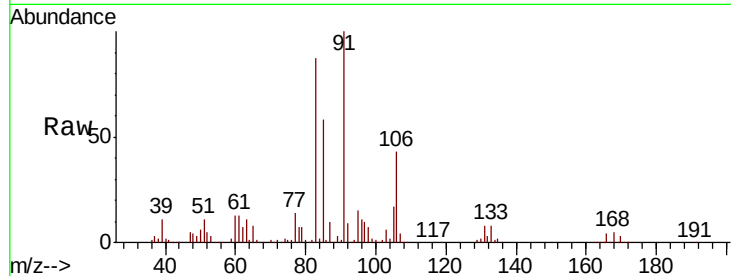
#63
 1,1,2,2-Tetrachloroethane
 Concen: 13.070 ppbv
 RT: 13.84 min Scan# 3392
 Delta R.T. 0.00 min
 Lab File: VL033278.D
 Acq: 12 Mar 2019 6:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 83 Resp: 2200781
 Ion Ratio Lower Upper
 83 100
 131 9.1 4.5 13.7
 85 65.6 32.2 96.6

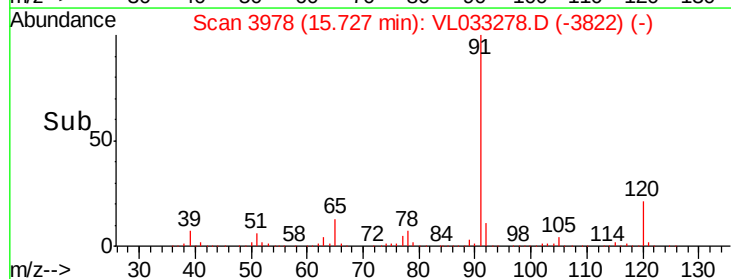
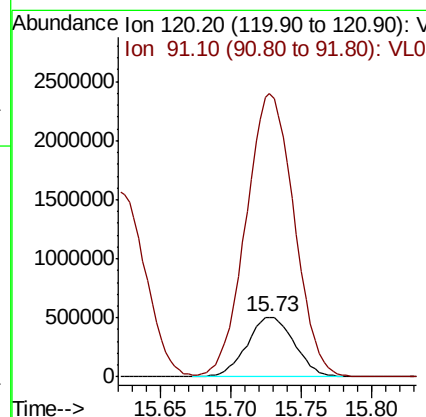
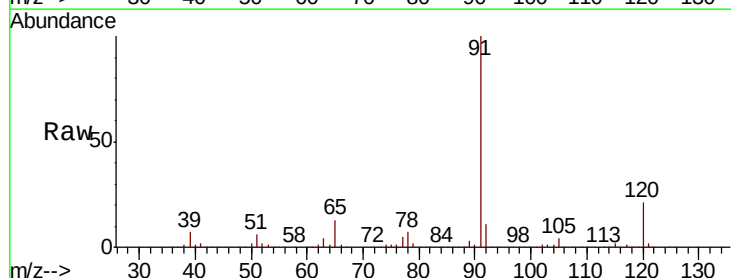
Manual Integrations
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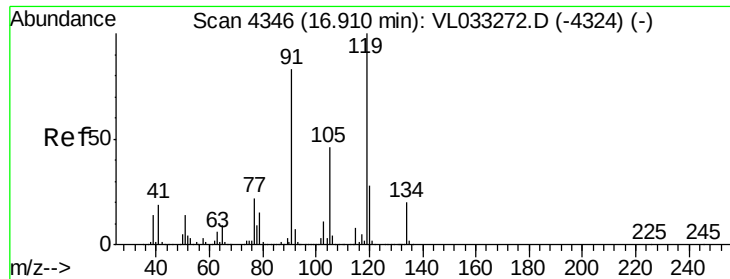
MMDadoda
 3/14/2019 5:05:49 AM



#64
 n-propylbenzene
 Concen: 13.955 ppbv
 RT: 15.73 min Scan# 3978
 Delta R.T. 0.00 min
 Lab File: VL033278.D
 Acq: 12 Mar 2019 6:11

Tgt Ion: 120 Resp: 1191843
 Ion Ratio Lower Upper
 120 100
 91 481.4 385.8 578.8





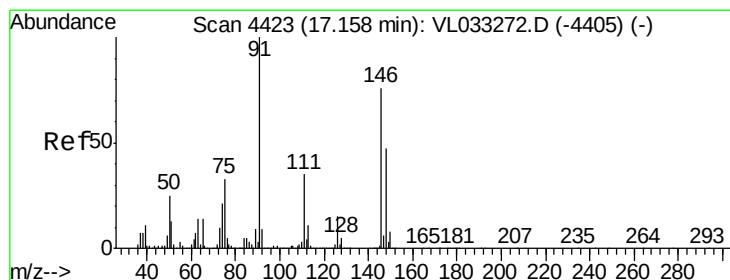
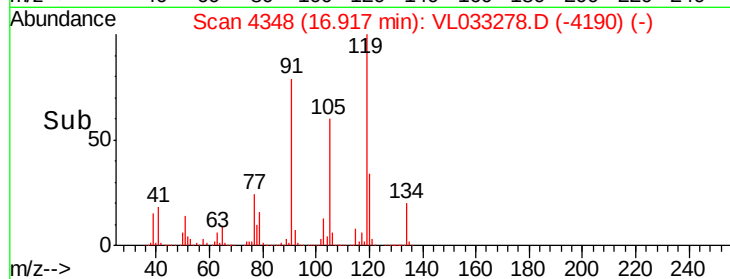
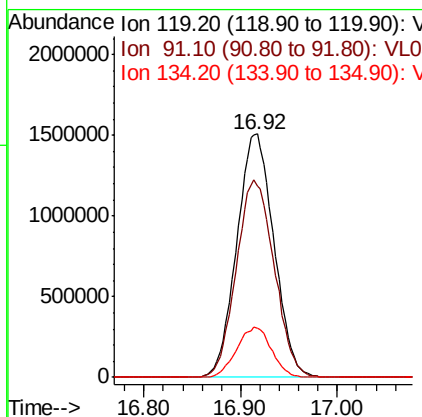
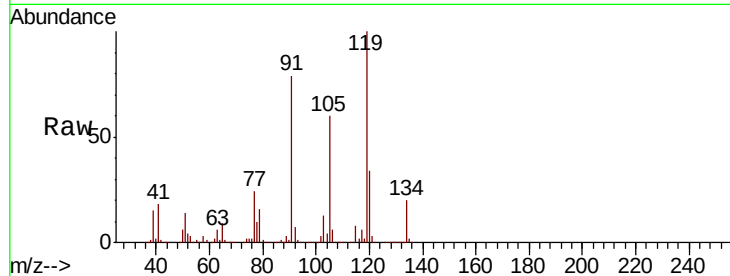
#65
 tert-Butylbenzene
 Concen: 13.672 ppbv
 RT: 16.92 min Scan# 4348
 Delta R.T. 0.01 min
 Lab File: VL033278.D
 Acq: 12 Mar 2019 6:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion: 119 Resp: 4012747
 Ion Ratio Lower Upper
 119 100
 91 83.1 67.3 100.9
 134 19.5 15.4 23.2

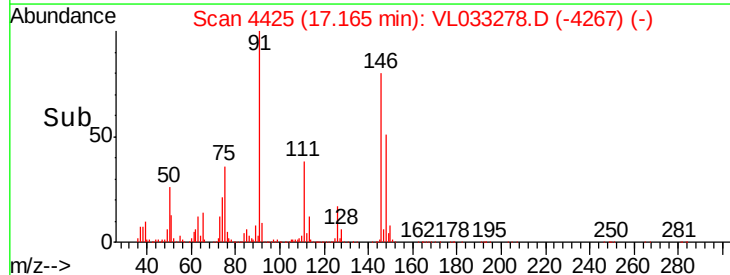
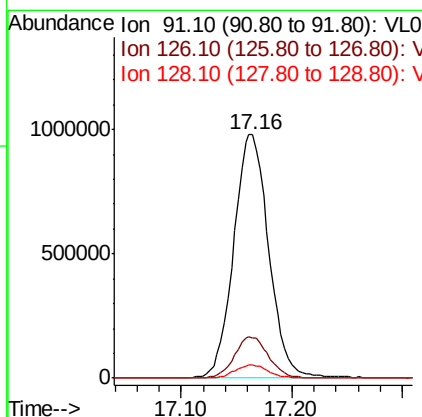
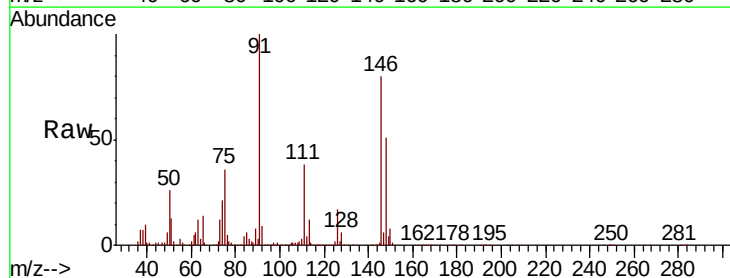
Manual Integrations
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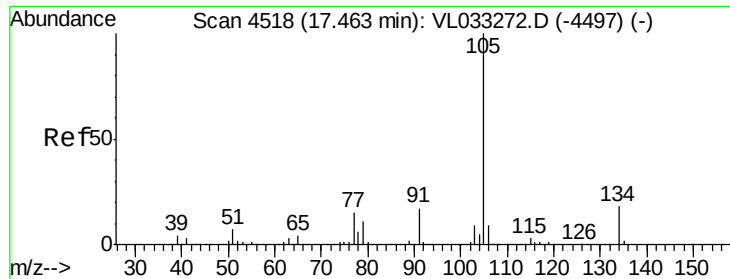
MMDadoda
 3/14/2019 5:05:49 AM



#66
 Benzyl Chloride
 Concen: 19.655 ppbv
 RT: 17.16 min Scan# 4425
 Delta R.T. 0.01 min
 Lab File: VL033278.D
 Acq: 12 Mar 2019 6:11

Tgt Ion: 91 Resp: 2149621
 Ion Ratio Lower Upper
 91 100
 126 16.6 13.0 19.6
 128 5.2 4.3 6.5





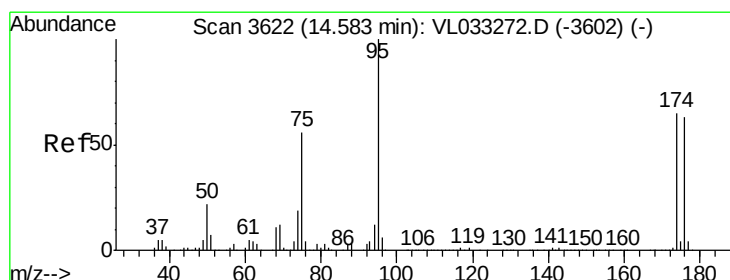
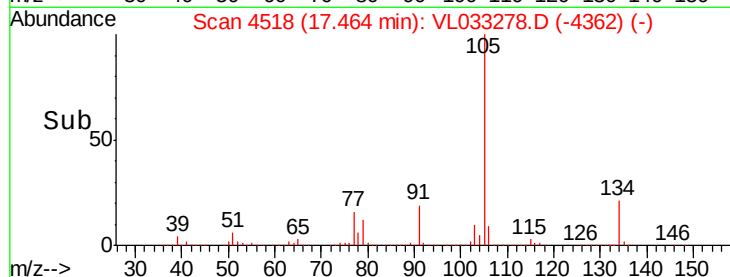
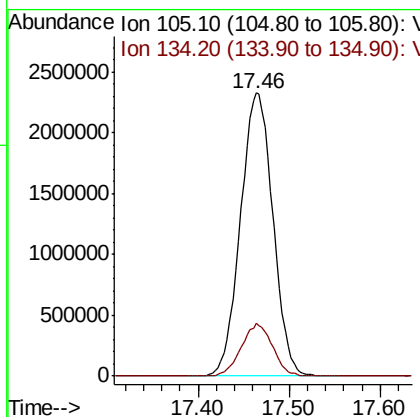
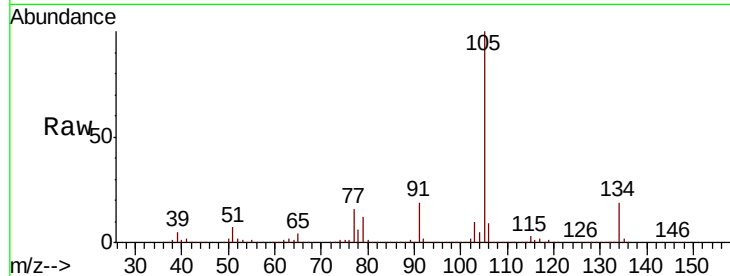
#67
 sec-Butylbenzene
 Concen: 13.827 ppbv
 RT: 17.46 min Scan# 4518
 Delta R.T. 0.00 min
 Lab File: VL033278.D
 Acq: 12 Mar 2019 6:11

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDIC015

Tgt Ion: 105 Resp: 5757787
 Ion Ratio Lower Upper
 105 100
 134 17.9 14.2 21.2

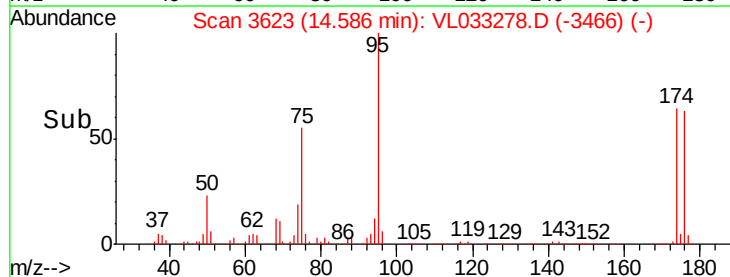
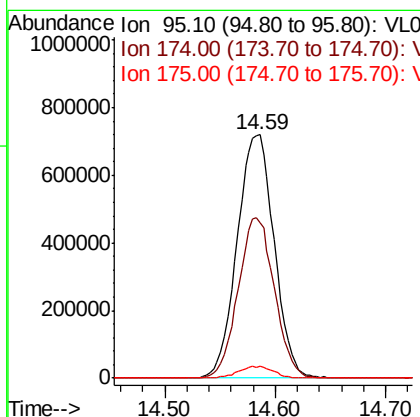
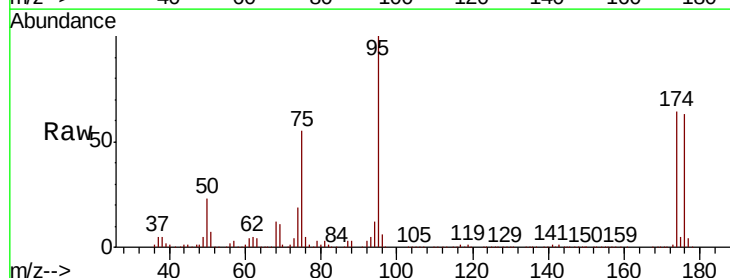
Manual Integrations
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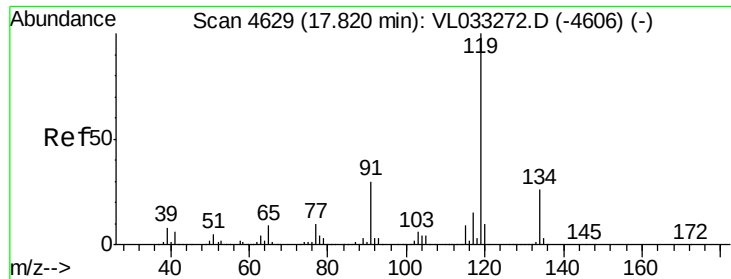
MMDadoda
 3/14/2019 5:05:49 AM



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.472 ppbv
 RT: 14.59 min Scan# 3623
 Delta R.T. 0.00 min
 Lab File: VL033278.D
 Acq: 12 Mar 2019 6:11

Tgt Ion: 95 Resp: 1673084
 Ion Ratio Lower Upper
 95 100
 174 64.7 51.7 77.5
 175 4.6 3.7 5.5





#69
 p-Isopropyltoluene
 Concen: 14.132 ppbv
 RT: 17.82 min Scan# 4630
 Delta R.T. 0.00 min
 Lab File: VL033278.D
 Acq: 12 Mar 2019 6:11

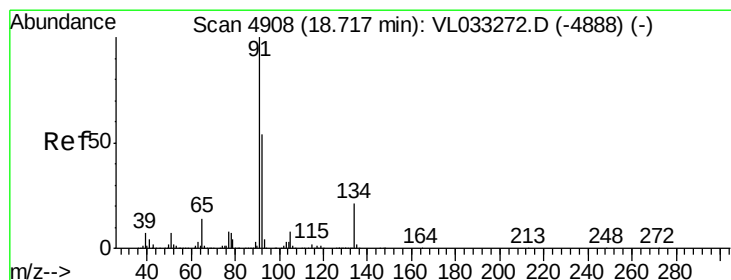
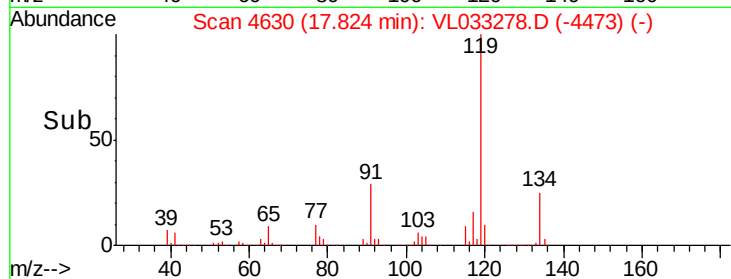
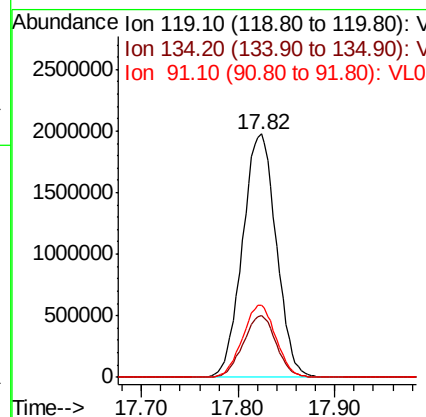
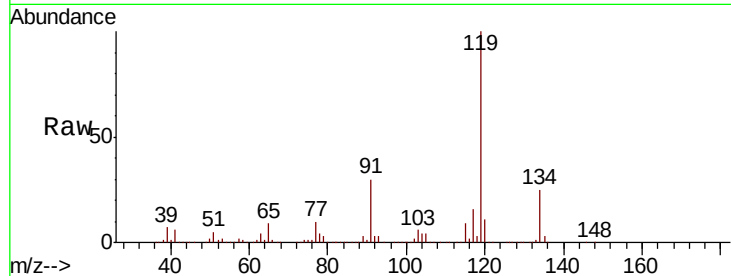
Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC015

Tgt Ion: 119 Resp: 4782183

Ion	Ratio	Lower	Upper
119	100		
134	24.9	19.7	29.5
91	29.4	23.5	35.3

Manual Integrations
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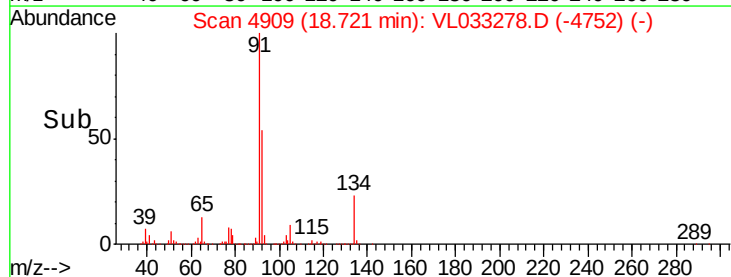
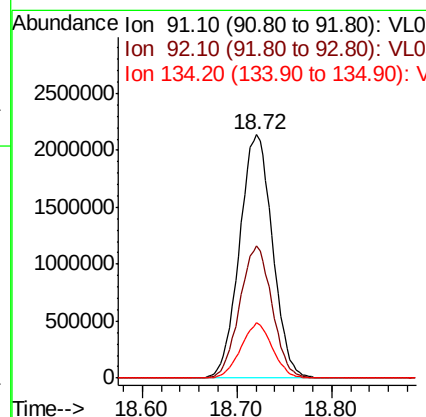
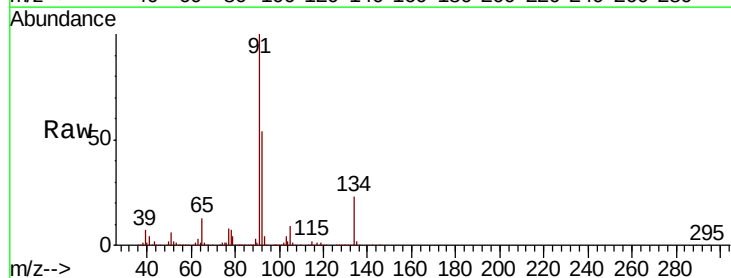
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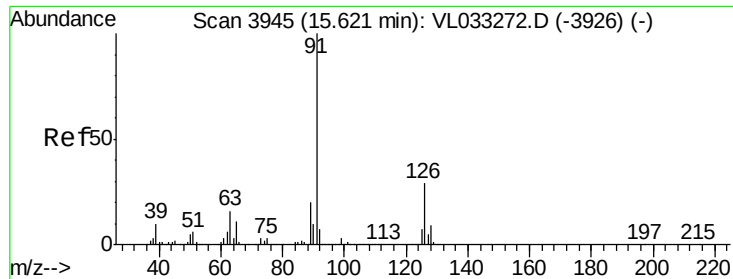


#70
 n-Butylbenzene
 Concen: 14.089 ppbv
 RT: 18.72 min Scan# 4909
 Delta R.T. 0.00 min
 Lab File: VL033278.D
 Acq: 12 Mar 2019 6:11

Tgt Ion: 91 Resp: 5166728

Ion	Ratio	Lower	Upper
91	100		
92	53.3	42.4	63.6
134	21.8	17.1	25.7





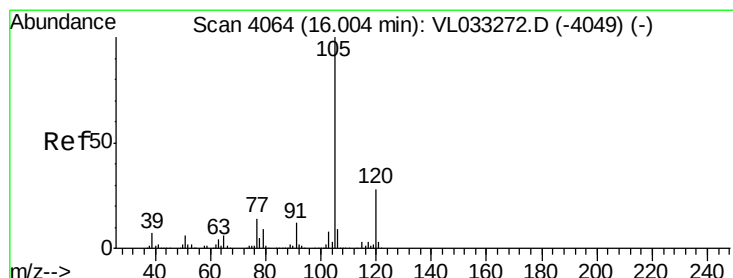
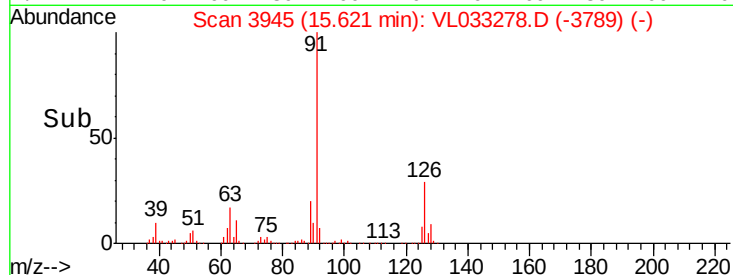
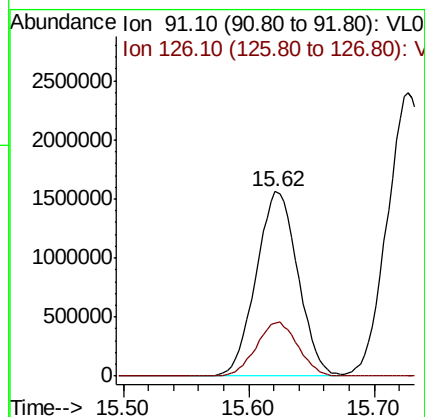
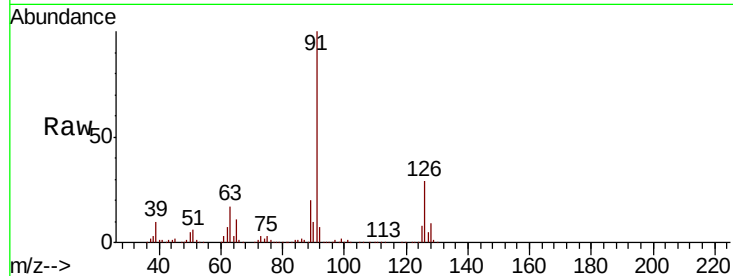
#71
 2-Chlorotoluene
 Concen: 13.903 ppbv
 RT: 15.62 min Scan# 3945
 Delta R.T. 0.00 min
 Lab File: VL033278.D
 Acq: 12 Mar 2019 6:11

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC015

Tgt Ion: 91 Resp: 3622273
 Ion Ratio Lower Upper
 91 100
 126 29.2 11.7 46.7

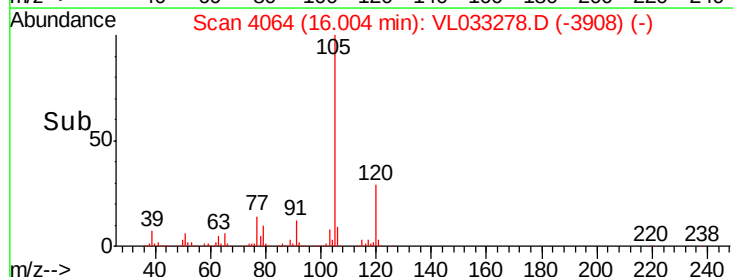
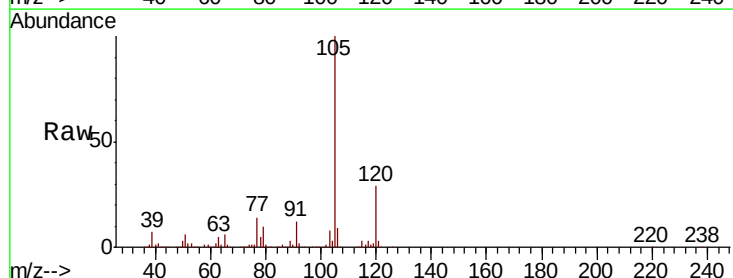
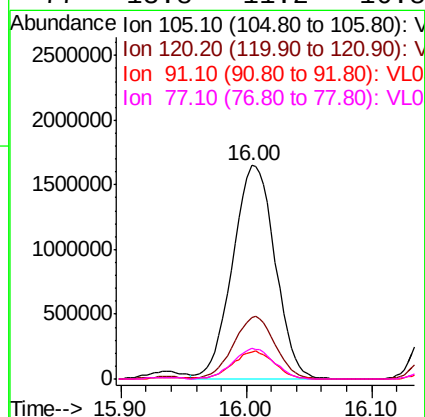
Manual Integrations
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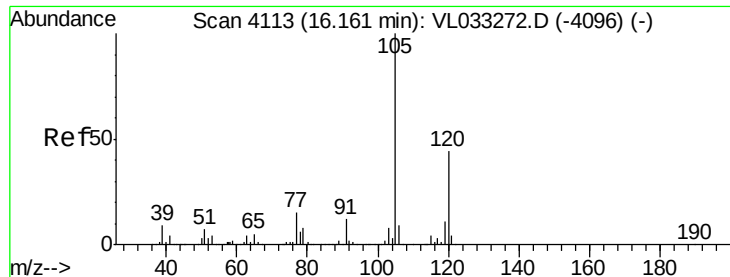
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 3/14/2019 5:05:49 AM



#72
 4-Ethyltoluene
 Concen: 14.300 ppbv
 RT: 16.00 min Scan# 4064
 Delta R.T. 0.00 min
 Lab File: VL033278.D
 Acq: 12 Mar 2019 6:11

Tgt Ion: 105 Resp: 3883897
 Ion Ratio Lower Upper
 105 100
 120 28.7 22.9 34.3
 91 12.8 10.2 15.2
 77 13.8 11.2 16.8





#73

1,3,5-Trimethylbenzene

Concen: 14.146 ppbv

RT: 16.16 min Scan# 4114

Delta R.T. 0.00 min

Lab File: VL033278.D

Acq: 12 Mar 2019 6:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:105 Resp: 3659393

Ion Ratio Lower Upper

105 100

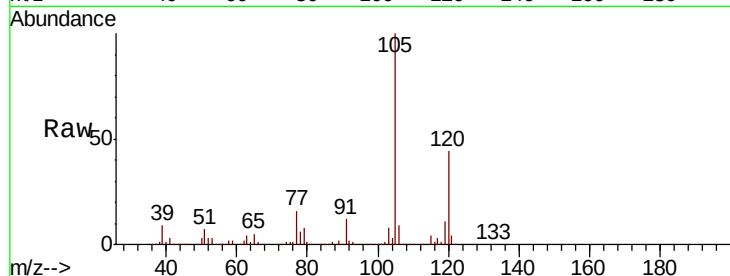
120 44.4 35.1 52.7

Manual Integrations

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.16

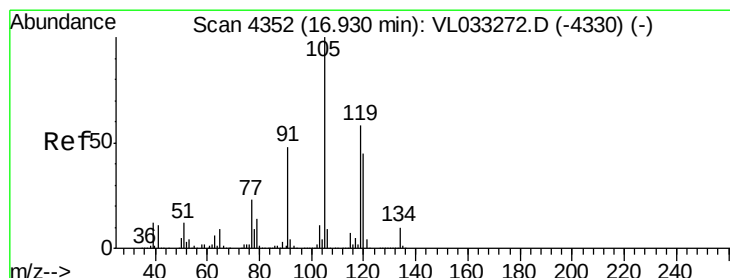
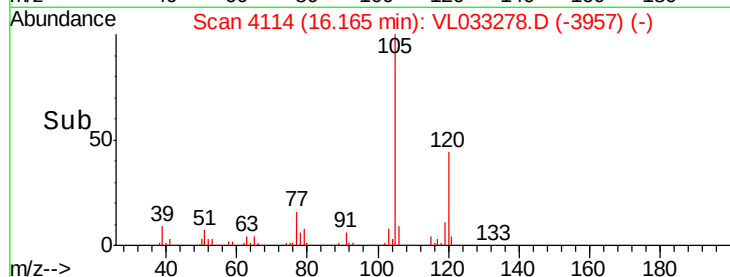
1500000

1000000

500000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 13.740 ppbv

RT: 16.93 min Scan# 4353

Delta R.T. 0.00 min

Lab File: VL033278.D

Acq: 12 Mar 2019 6:11

Tgt Ion:105 Resp: 3704897

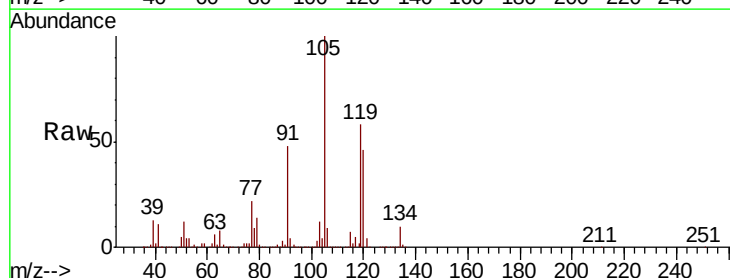
Ion Ratio Lower Upper

105 100

120 46.0 36.1 54.1

91 47.6 38.6 58.0

77 21.5 18.2 27.4



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

2000000

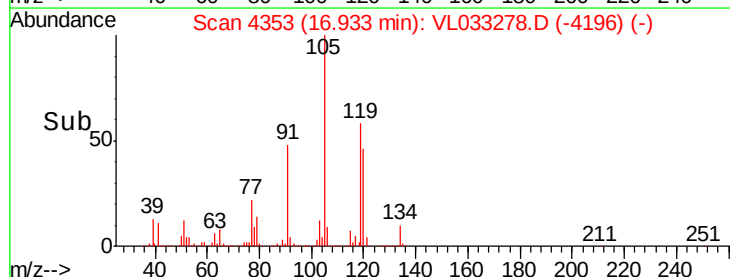
1500000

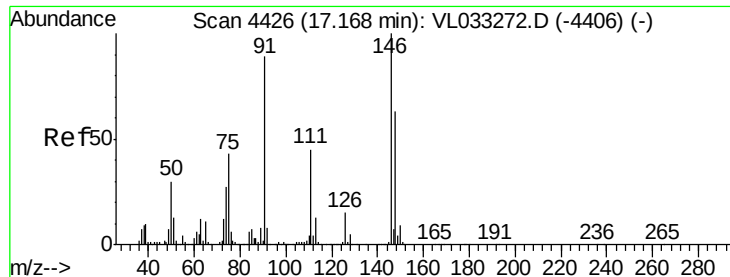
1000000

500000

0

Time-->





#75

1,3-Dichlorobenzene

Concen: 13.493 ppbv

RT: 17.17 min Scan# 4427

Delta R.T. 0.00 min

Lab File: VL033278.D

Acq: 12 Mar 2019 6:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:146 Resp: 2146927

Ion Ratio Lower Upper

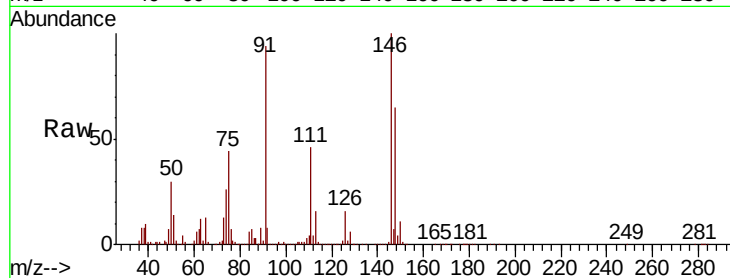
146 100

111 45.8 22.8 68.4

148 64.1 31.8 95.3

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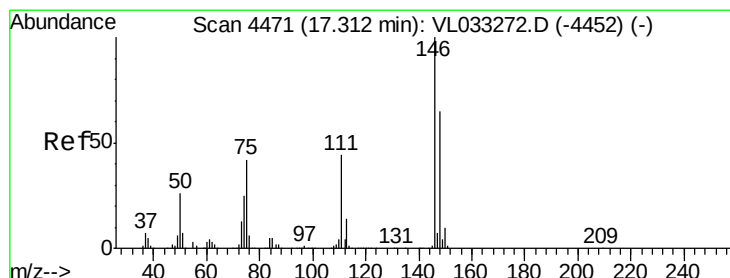
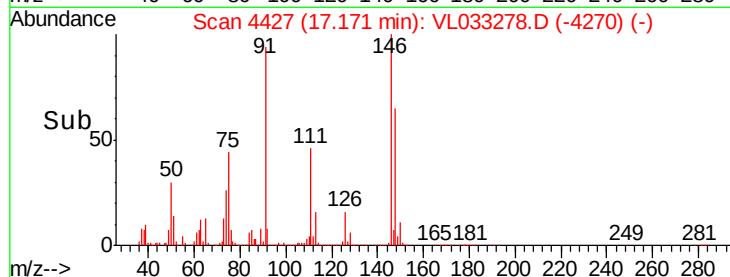
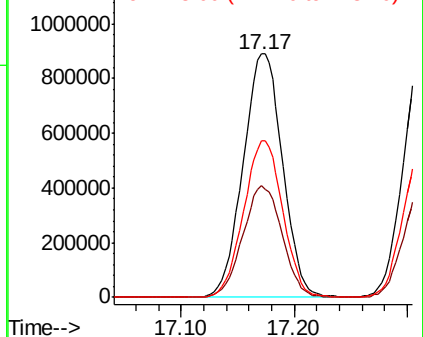


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 14.015 ppbv

RT: 17.32 min Scan# 4472

Delta R.T. 0.00 min

Lab File: VL033278.D

Acq: 12 Mar 2019 6:11

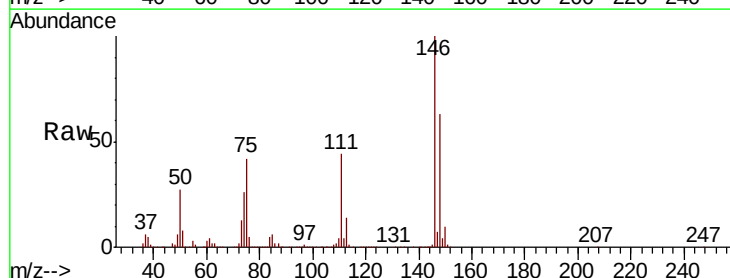
Tgt Ion:146 Resp: 2187823

Ion Ratio Lower Upper

146 100

111 44.3 22.1 66.1

148 63.9 31.8 95.3

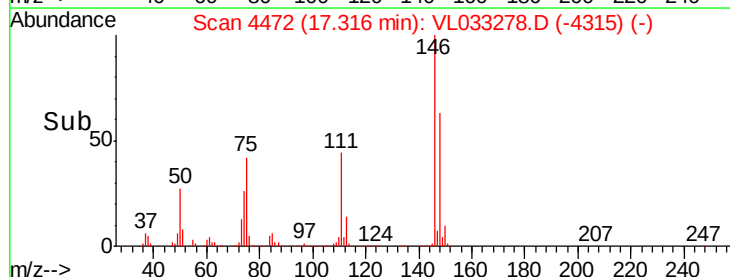
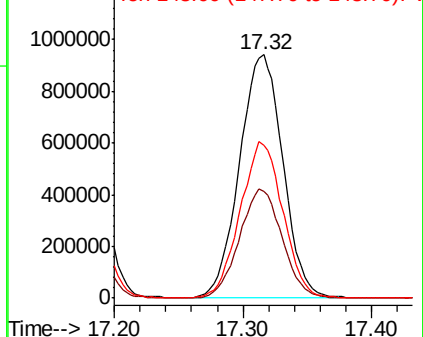


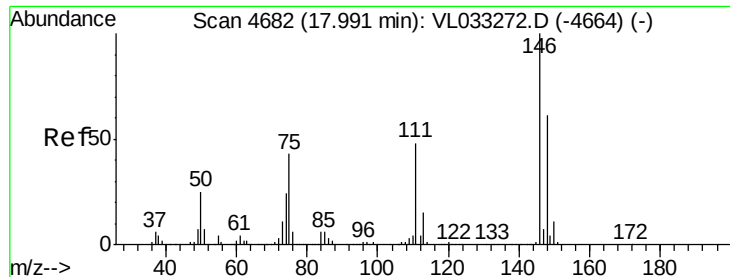
Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 13.921 ppbv

RT: 18.00 min Scan# 4684

Delta R.T. 0.01 min

Lab File: VL033278.D

Acq: 12 Mar 2019 6:11

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tgt Ion:146 Resp: 2137966

Ion Ratio Lower Upper

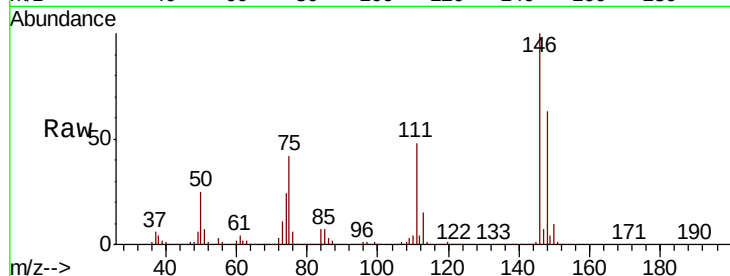
146 100

111 47.2 23.5 70.5

148 64.2 31.7 95.1

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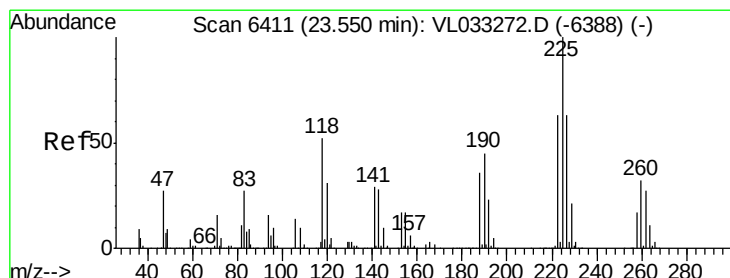
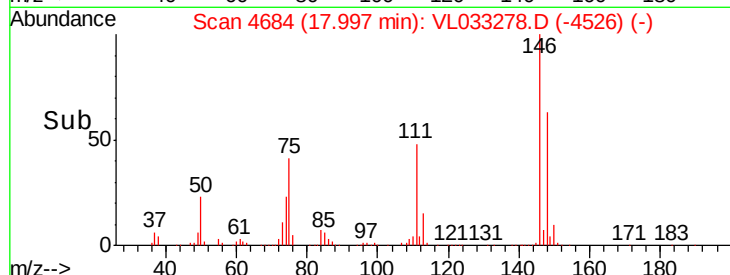
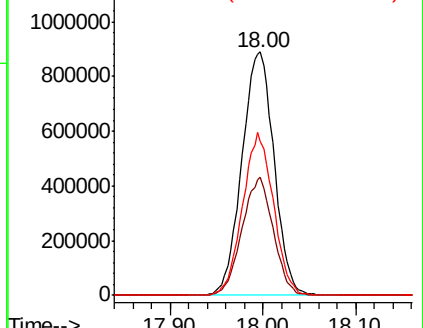
MMDadoda
3/14/2019 5:05:49 AM



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 13.693 ppbv

RT: 23.55 min Scan# 6412

Delta R.T. 0.00 min

Lab File: VL033278.D

Acq: 12 Mar 2019 6:11

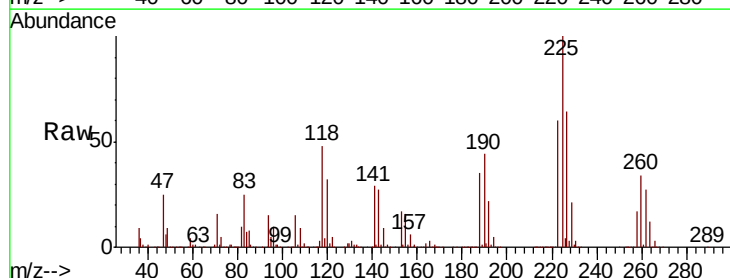
Tgt Ion:225 Resp: 1593997

Ion Ratio Lower Upper

225 100

223 63.1 50.3 75.5

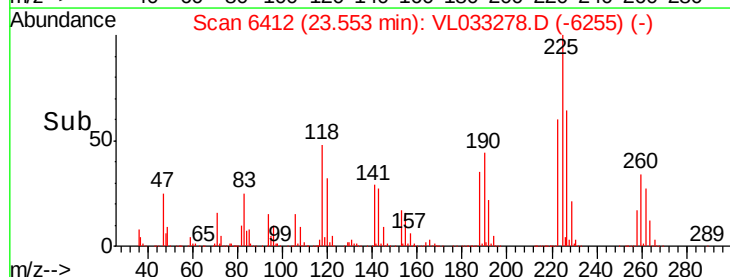
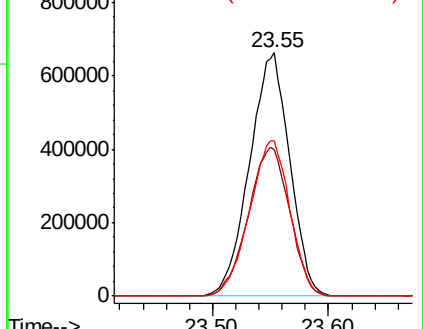
227 64.5 51.1 76.7

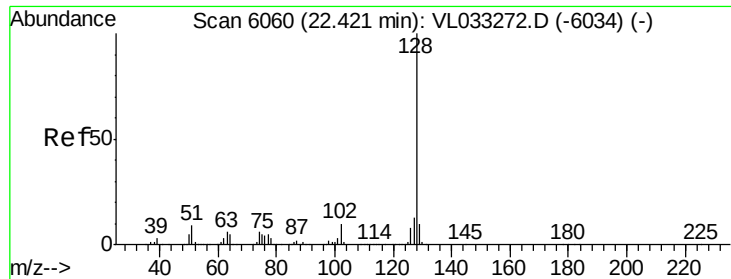


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





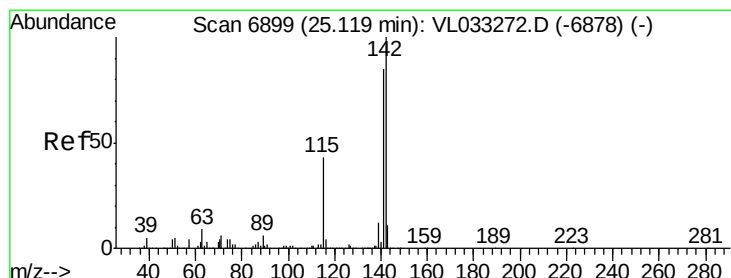
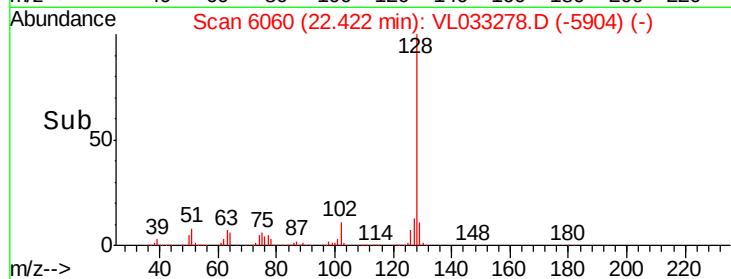
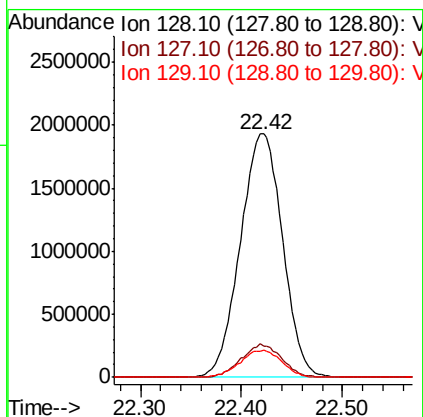
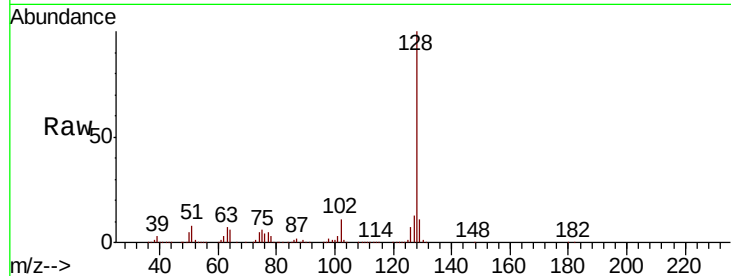
#79
Naphthalene
Concen: 19.045 ppbv
RT: 22.42 min Scan# 6060
Delta R.T. 0.00 min
Lab File: VL033278.D
Acq: 12 Mar 2019 6:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.5	15.7
129	11.3	8.4	12.6

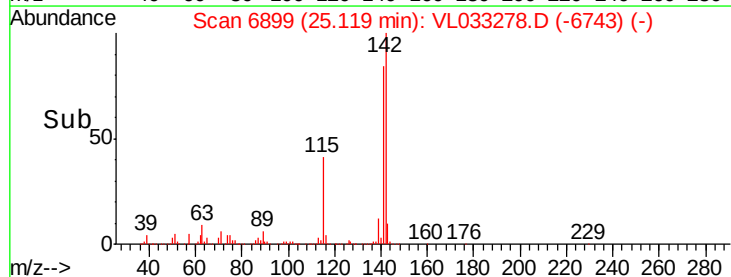
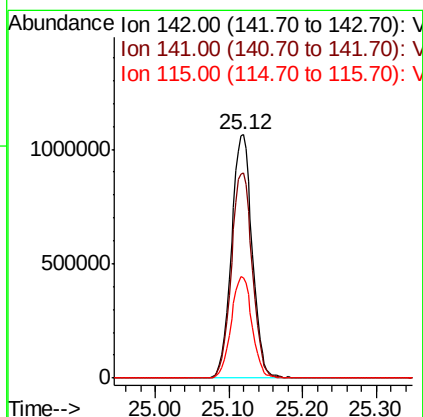
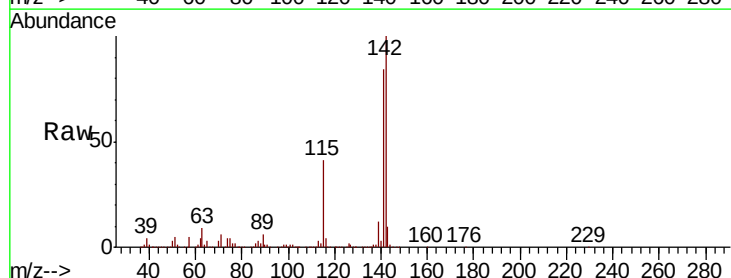
Manual Integrations
APPROVED

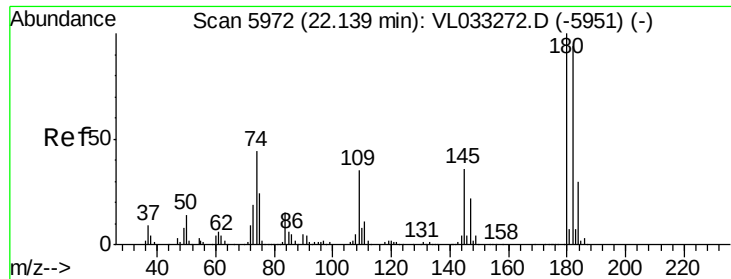
MMDadoda
3/14/2019 5:05:49 AM



#80
Naphthalene, 2-methyl-
Concen: 29.152 ppbv
RT: 25.12 min Scan# 6899
Delta R.T. 0.00 min
Lab File: VL033278.D
Acq: 12 Mar 2019 6:11

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.4	68.0	102.0
115	41.9	33.8	50.6





#81
 1,2,4-Trichlorobenzene
 Concen: 16.978 ppbv
 RT: 22.14 min Scan# 5973
 Delta R.T. 0.00 min
 Lab File: VL033278.D
 Acq: 12 Mar 2019 6:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tgt Ion:180 Resp: 2584443
 Ion Ratio Lower Upper
 180 100
 182 96.0 76.6 114.8
 184 30.8 24.2 36.4

Manual Integrations
 APPROVED

MMDadoda
 3/14/2019 5:05:49 AM

