

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011619\
 Data File : VL033112.D
 Acq On : 17 Jan 2019 4:29
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 1/17/2019 3:17:45 PM

Quant Time: Jan 17 06:33:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan 0
 QLast Update : Fri Jan 04 16:09:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1102977	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2817839	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2767887	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1987756	9.37	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.70%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	2289122	11.152	ppbv 100
3) Chlorodifluoromethane	3.01	51	1273977	10.204	ppbv 99
4) Chloromethane	3.17	50	722456	10.103	ppbv 97
5) Vinyl Chloride	3.29	62	735575	10.185	ppbv 99
6) Bromomethane	3.51	94	479840	9.780	ppbv 97
7) Chloroethane	3.60	64	278481	9.860	ppbv 99
8) Dichlorotetrafluoroethane	3.22	85	1808369	10.228	ppbv 100
9) Propene	3.04	41	545340	11.692	ppbv 99
10) Heptane	8.25	43	1380751	10.397	ppbv 100
11) Trichlorofluoromethane	4.00	101	1914298	8.440	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1321633	9.215	ppbv 100
13) Ethanol	3.65	45	112237	6.034	ppbv 98
14) Bromoethene	3.79	108	614712	9.704	ppbv 97
15) Acetone	3.90	43	1422286	9.316	ppbv 98
16) 1,3-Butadiene	3.36	39	637503	11.073	ppbv 95
17) tert-Butyl alcohol	4.36	59	310809	9.611	ppbv 100
18) 1,1-Dichloroethene	4.35	96	614372	9.300	ppbv 99
19) Isopropyl Alcohol	4.02	45	752077	7.156	ppbv 100
20) Methylene Chloride	4.41	84	525408	8.255	ppbv 99
21) Allyl Chloride	4.48	41	970463	10.258	ppbv 100
22) trans-1,2-Dichloroethene	4.96	96	616081	9.408	ppbv 99
23) Vinyl Acetate	5.15	43	2063983	10.627	ppbv 98
24) 1,1-Dichloroethane	5.09	63	1527354	9.262	ppbv 99
25) Ethyl Acetate	5.77	43	2433478	9.430	ppbv 100
26) Hexane	5.78	57	1138919	9.373	ppbv 100
27) Carbon Disulfide	4.62	76	1541120	10.284	ppbv 98
28) Methyl tert-Butyl Ether	5.11	73	1943570	10.247	ppbv 100
29) Chloroform	5.85	83	1861512	8.990	ppbv 100
30) Cyclohexane	7.25	84	993945	10.971	ppbv 98
31) cis-1,2-Dichloroethene	5.64	61	1190677	10.553	ppbv 99
32) 1,1,1-Trichloroethane	6.62	97	1975693	9.401	ppbv 99
34) 2-Butanone	5.33	43	1555949	9.503	ppbv 100
35) Carbon Tetrachloride	7.13	117	2144064	8.858	ppbv 99
36) Benzene	7.00	78	2385104	10.333	ppbv 99
37) 1,2-Dichloroethane	6.41	62	1449068	8.992	ppbv 99
38) Trichloroethene	7.96	130	950950	10.015	ppbv 96
39) 1,2-Dichloropropane	7.73	63	864949	9.975	ppbv 100
40) 1,4-Dioxane	7.95	88	314243	9.547	ppbv 97
41) Tetrahydrofuran	6.15	42	872793	10.474	ppbv 98
42) Bromodichloromethane	7.92	83	2014065	9.097	ppbv 99
43) Methyl Methacrylate	8.14	69	922384	10.650	ppbv 100

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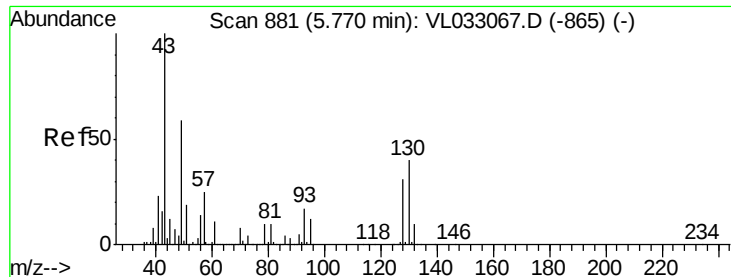
Manual Integrations
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Quant Time: Jan 17 06:33:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan 0
 QLast Update : Fri Jan 04 16:09:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	3843648	9.833	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	1222267	11.337	ppbv	99
46) cis-1,3-Dichloropropene	8.83	75	1440788	11.709	ppbv	96
47) 1,1,2-Trichloroethane	9.62	97	944103	9.319	ppbv	99
48) Dibromochloromethane	10.45	129	1728192	9.655	ppbv	100
49) Bromoform	13.20	173	1377543	8.809	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	2150845	10.368	ppbv	99
51) 2-Hexanone	10.27	43	1618561	10.783	ppbv #	99
52) Tetrachloroethene	11.37	164	825022	10.112	ppbv	97
53) Toluene	9.95	91	2678170	10.827	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1452184	9.949	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	1198585	8.381	ppbv	99
57) Chlorobenzene	12.30	112	2011303	8.706	ppbv	99
58) Ethyl Benzene	12.87	91	3520034	10.073	ppbv	100
59) m/p-Xylene	13.15	91	5961237m	18.440	ppbv	
60) o-Xylene	13.85	91	2830580	8.944	ppbv	99
61) Styrene	13.69	104	2118051	10.488	ppbv	99
62) Isopropylbenzene	14.83	105	3983998	8.845	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1862734	7.923	ppbv	100
64) n-propylbenzene	15.72	120	1014819	8.869	ppbv	98
65) tert-Butylbenzene	16.91	119	3498115	8.768	ppbv	99
66) Benzyl Chloride	17.16	91	2012473	8.851	ppbv	100
67) sec-Butylbenzene	17.46	105	4952625	8.675	ppbv	100
69) p-Isopropyltoluene	17.82	119	4180308	9.021	ppbv	100
70) n-Butylbenzene	18.71	91	4298702	9.228	ppbv	99
71) 2-Chlorotoluene	15.62	91	2931504	9.178	ppbv	99
72) 4-Ethyltoluene	16.00	105	3226284	9.276	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	3075719	8.963	ppbv	100
74) 1,2,4-Trimethylbenzene	16.93	105	3193799	8.403	ppbv	96
75) 1,3-Dichlorobenzene	17.17	146	1851096	8.274	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1808797	8.876	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	1809863	8.983	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	1579733	10.209	ppbv	100
79) Naphthalene	22.41	128	3792310	11.846	ppbv	99
80) Naphthalene, 2-methyl-	25.11	142	939670	9.672	ppbv	98
81) 1,2,4-Trichlorobenzene	22.14	180	1755950	11.354	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. -0.01 min

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ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 1102977

Ion Ratio Lower Upper

49 100

128 53.0 26.2 78.5

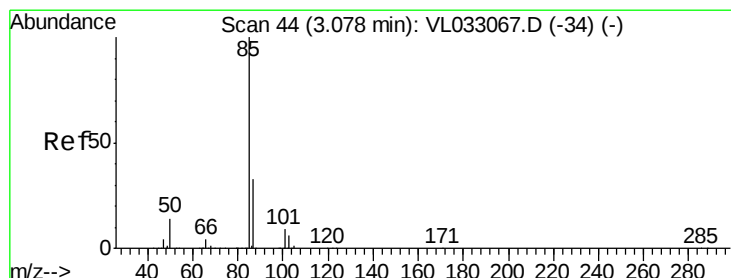
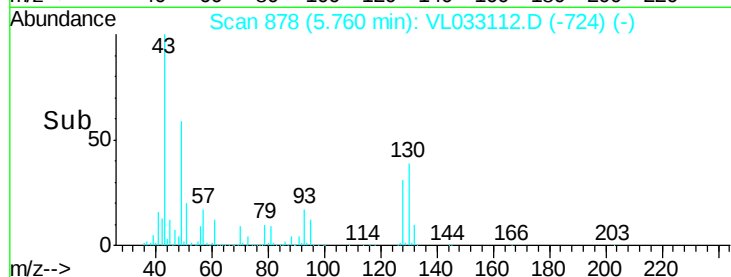
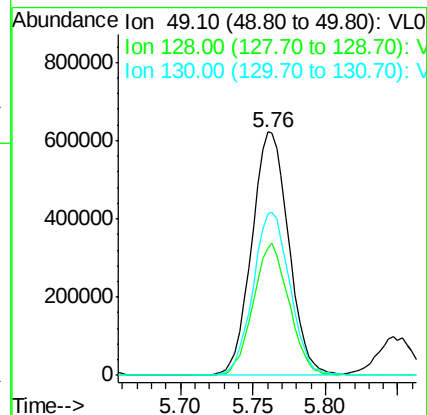
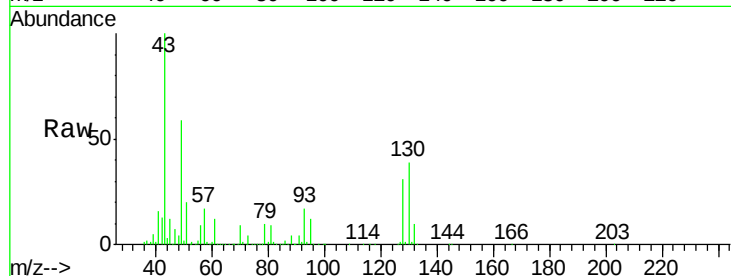
130 67.6 33.6 100.6

Manual Integrations

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1/17/2019 3:17:45 PM



#2

Dichlorodifluoromethane

Concen: 11.152 ppbv

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033112.D

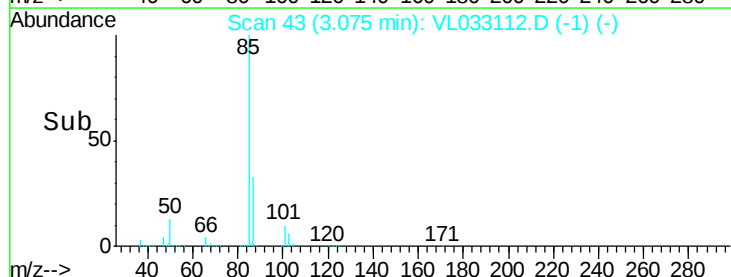
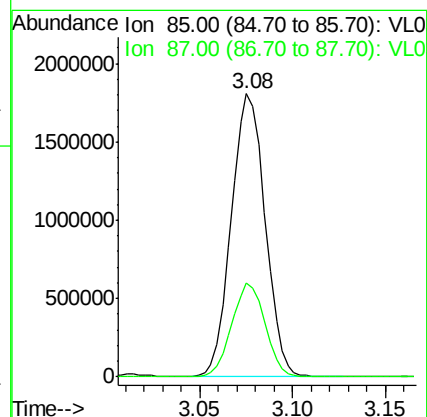
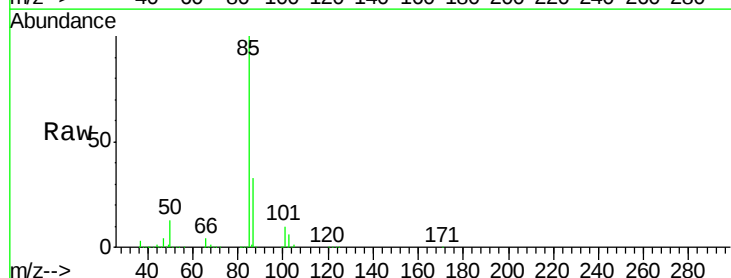
Acq: 17 Jan 2019 4:29

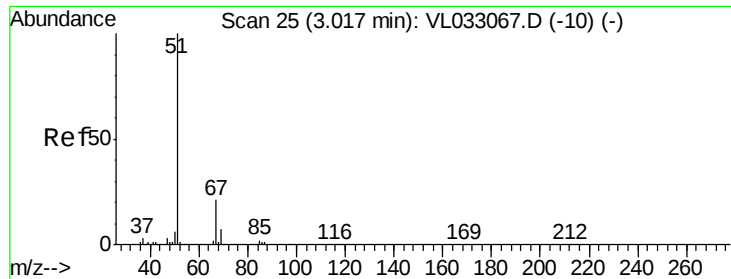
Tgt Ion: 85 Resp: 2289122

Ion Ratio Lower Upper

85 100

87 33.0 26.3 39.5





#3

Chlorodifluoromethane

Concen: 10.204 ppbv

RT: 3.01 min Scan# 24

Delta R.T. 0.00 min

Lab File: VL033112.D

Acq: 17 Jan 2019 4:29

Tot Ion: 51 Resp: 1273977

Ion Ratio Lower Upper

51 100

67 19.9 16.3 24.5

Instrument :

MSVOA_L

ClientSampleId :

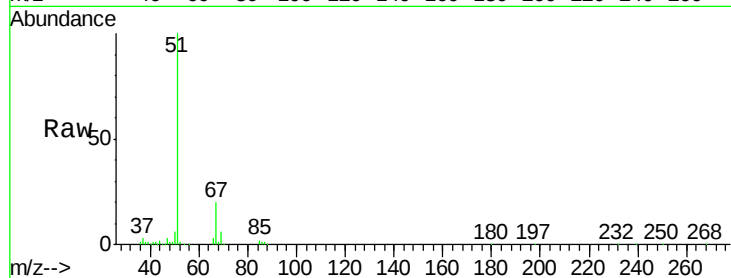
VSTDCCC010EC

Manual Integrations

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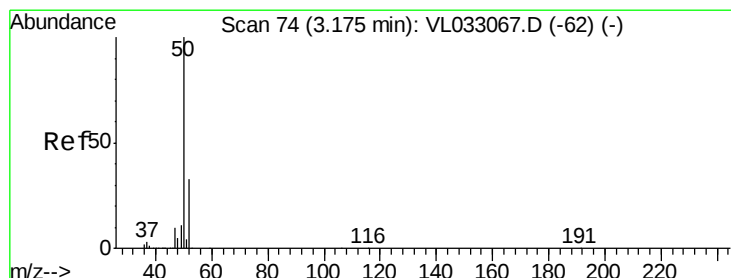
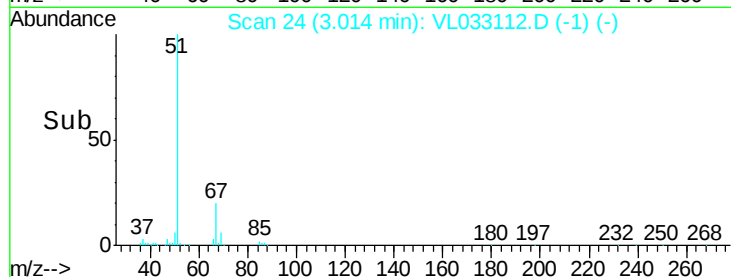
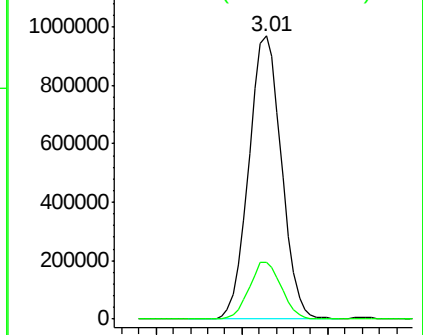
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 10.103 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033112.D

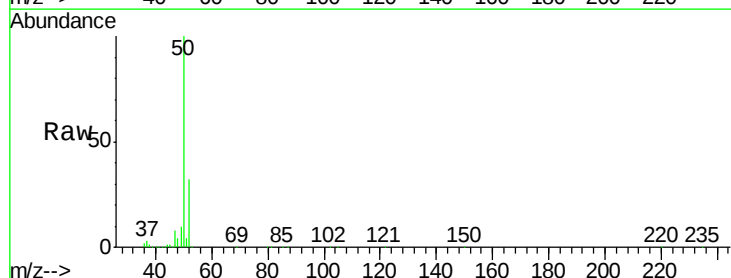
Acq: 17 Jan 2019 4:29

Tgt Ion: 50 Resp: 722456

Ion Ratio Lower Upper

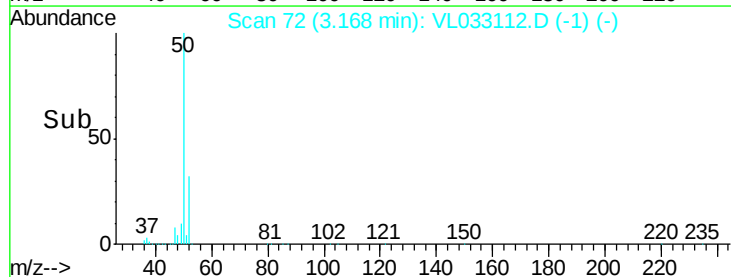
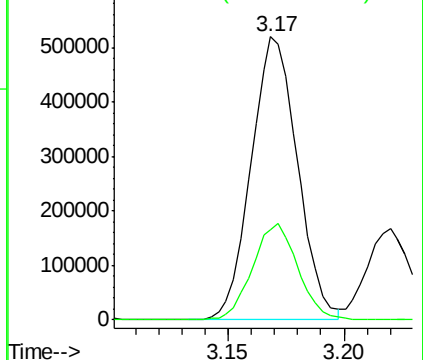
50 100

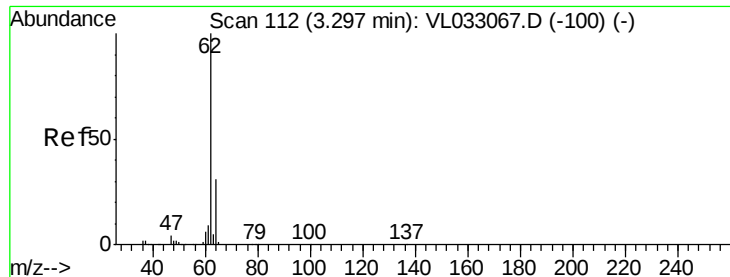
52 32.0 26.9 40.3



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 10.185 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033112.D

Acq: 17 Jan 2019 4:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 735575

Ion Ratio Lower Upper

62 100

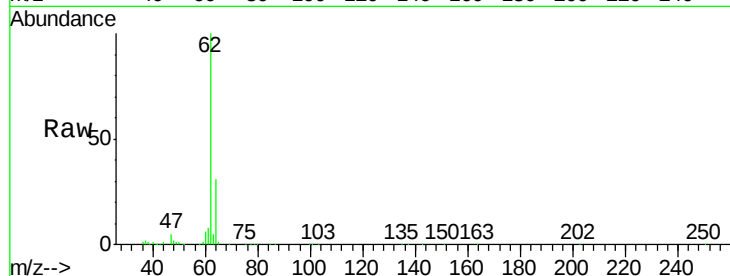
64 31.2 25.3 37.9

Manual Integrations

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1/17/2019 3:17:45 PM



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.29

600000

500000

400000

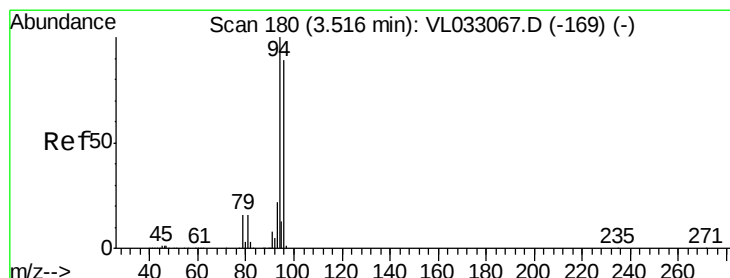
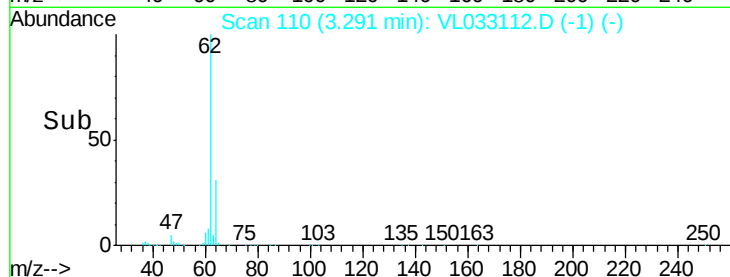
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 9.780 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033112.D

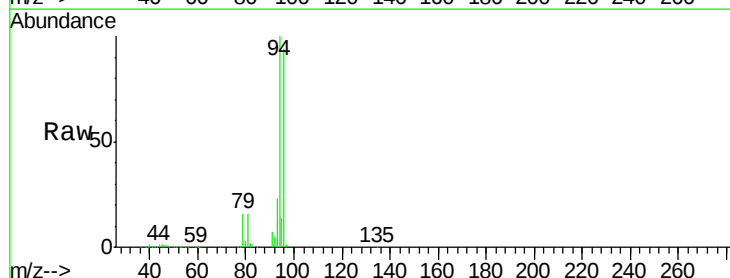
Acq: 17 Jan 2019 4:29

Tgt Ion: 94 Resp: 479840

Ion Ratio Lower Upper

94 100

96 94.2 72.8 109.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.51

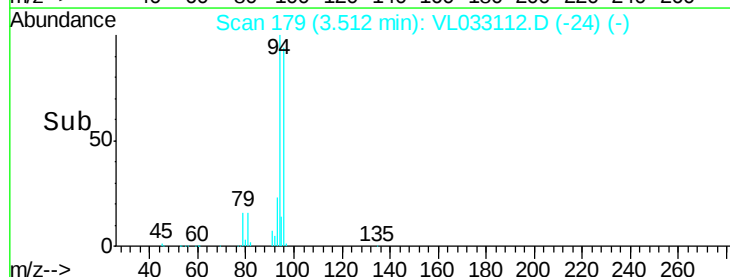
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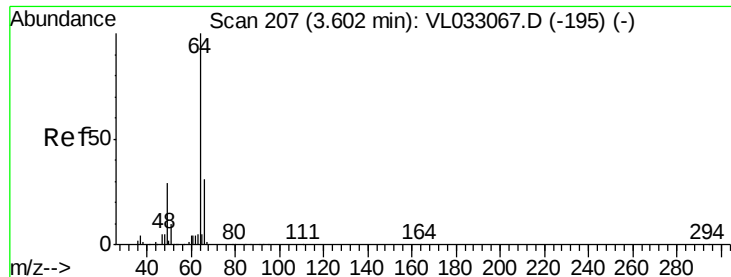
200000

100000

0

Time-->





#7

Chloroethane

Concen: 9.860 ppbv

RT: 3.60 min Scan# 206

Delta R.T. 0.00 min

Lab File: VL033112.D

Acq: 17 Jan 2019 4:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 278481

Ion Ratio Lower Upper

64 100

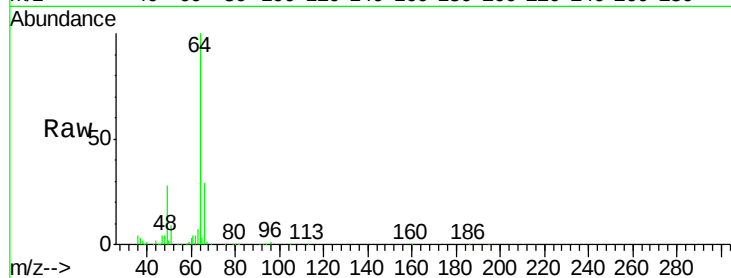
66 28.8 23.7 35.5

Manual Integrations

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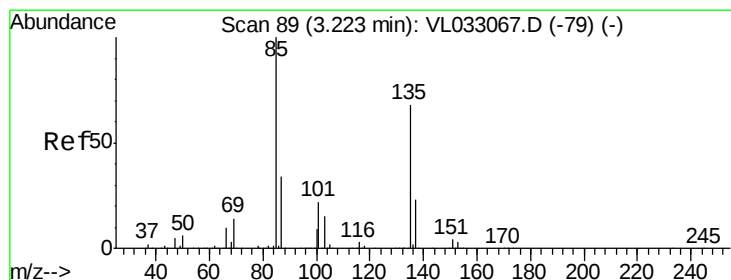
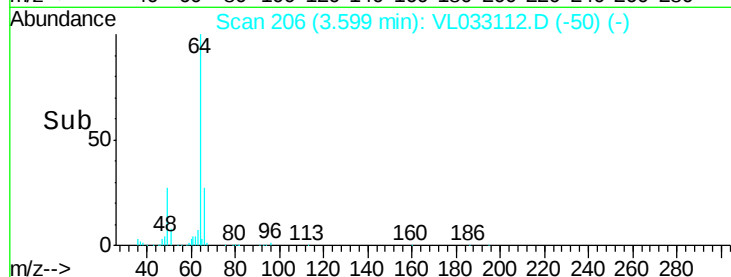
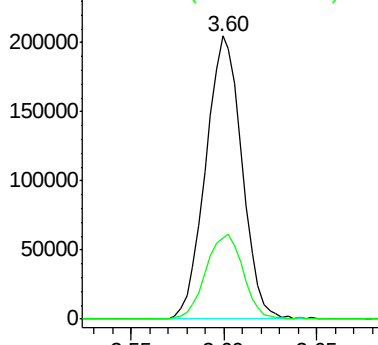
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 10.228 ppbv

RT: 3.22 min Scan# 88

Delta R.T. 0.00 min

Lab File: VL033112.D

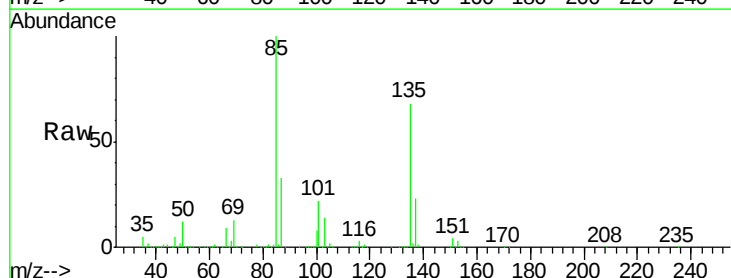
Acq: 17 Jan 2019 4:29

Tgt Ion: 85 Resp: 1808369

Ion Ratio Lower Upper

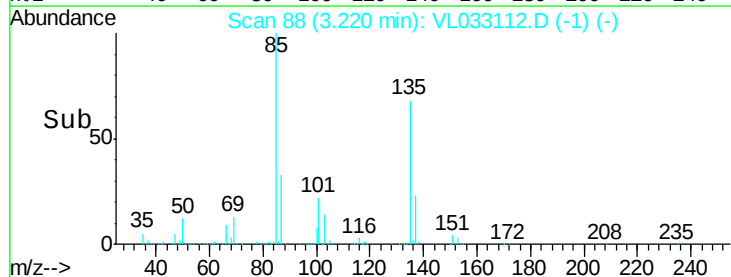
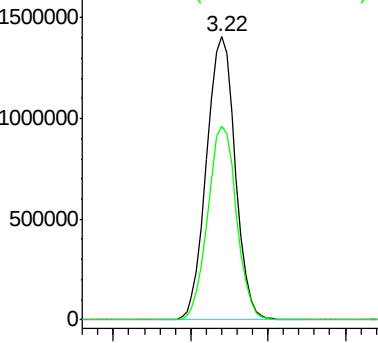
85 100

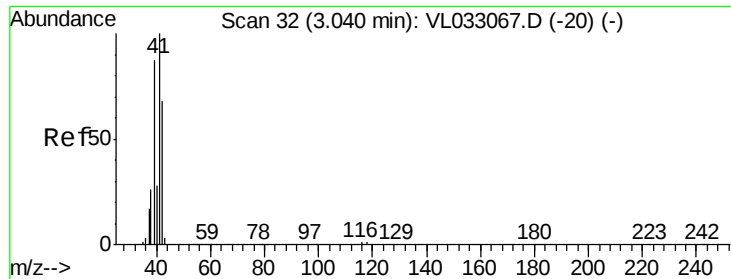
135 69.0 54.9 82.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 11.692 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033112.D

Acq: 17 Jan 2019 4:29

Instrument :

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ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 545340

Ion Ratio Lower Upper

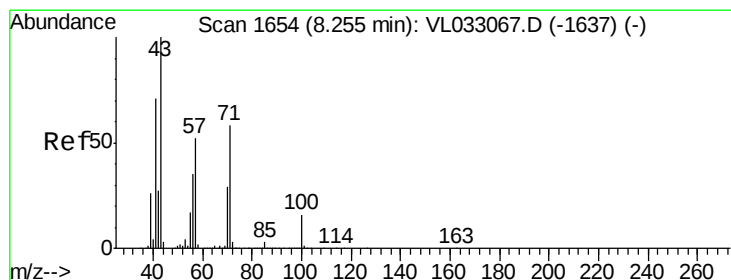
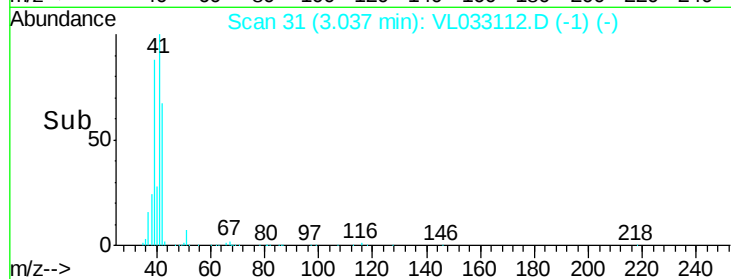
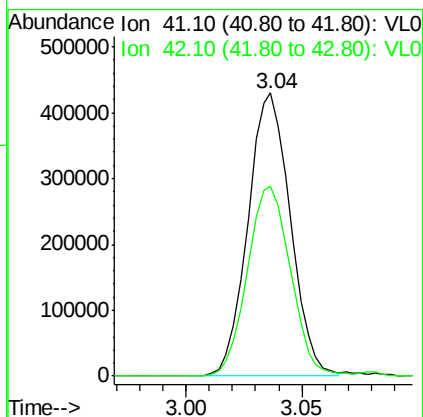
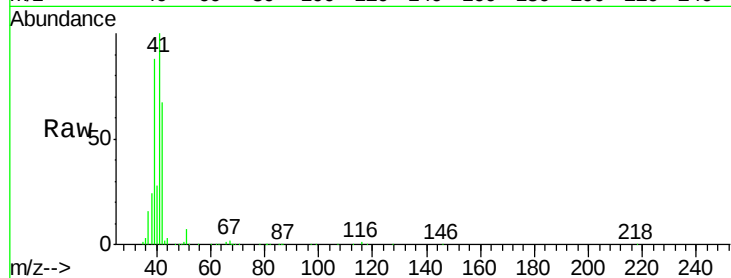
41 100

42 69.5 55.3 82.9

Manual Integrations
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1/17/2019 3:17:45 PM



#10

Heptane

Concen: 10.397 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.00 min

Lab File: VL033112.D

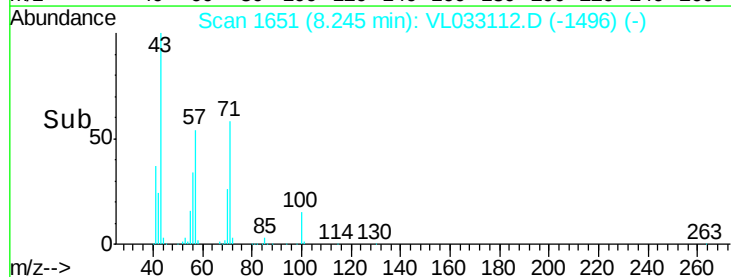
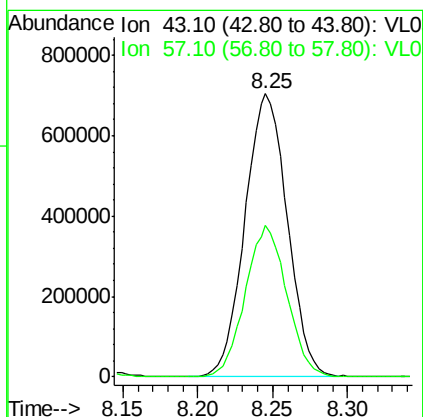
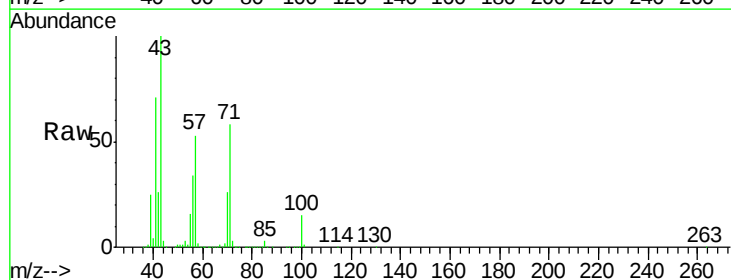
Acq: 17 Jan 2019 4:29

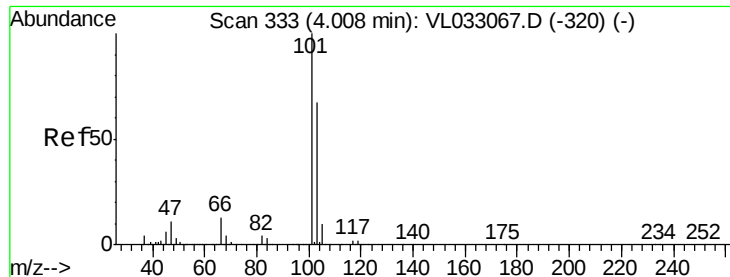
Tgt Ion: 43 Resp: 1380751

Ion Ratio Lower Upper

43 100

57 52.6 41.9 62.9





#11

Trichlorofluoromethane

Concen: 8.440 ppbv

RT: 4.00 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL033112.D

Acq: 17 Jan 2019 4:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:101 Resp: 1914298

Ion Ratio Lower Upper

101 100

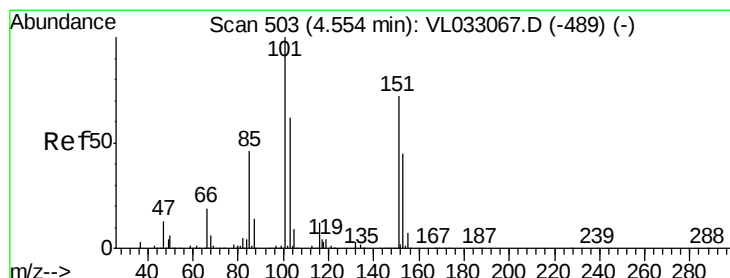
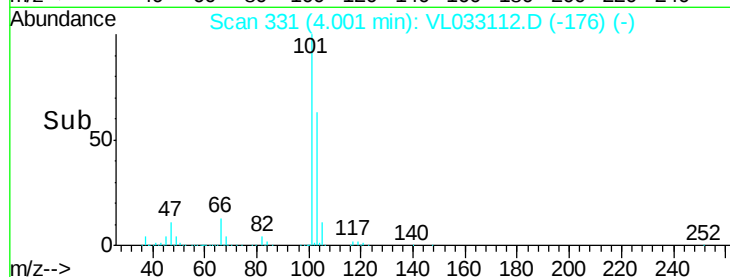
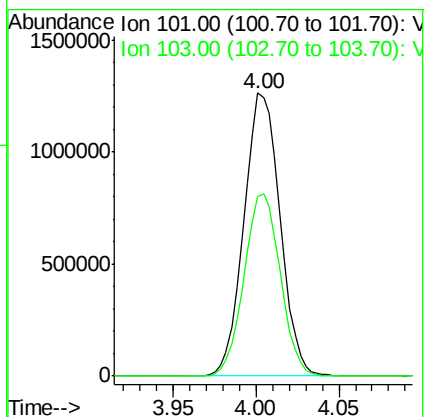
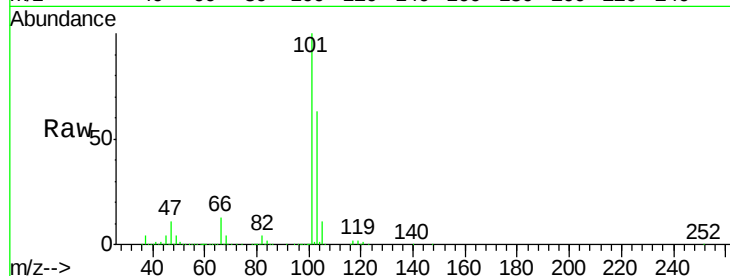
103 63.4 51.7 77.5

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#12

1,1,2-Trichlorotrifluoroethane

Concen: 9.215 ppbv

RT: 4.55 min Scan# 502

Delta R.T. -0.00 min

Lab File: VL033112.D

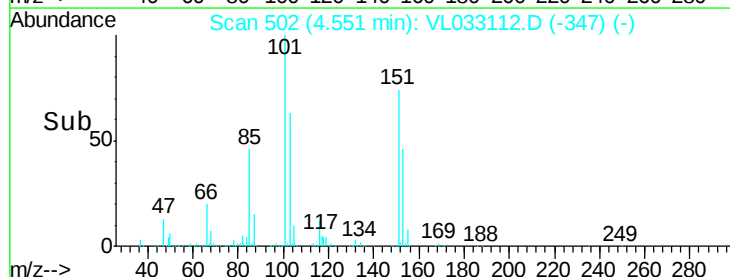
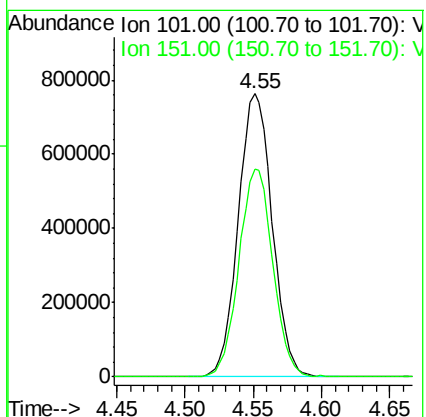
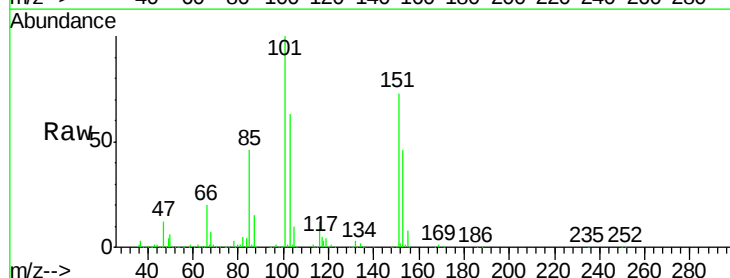
Acq: 17 Jan 2019 4:29

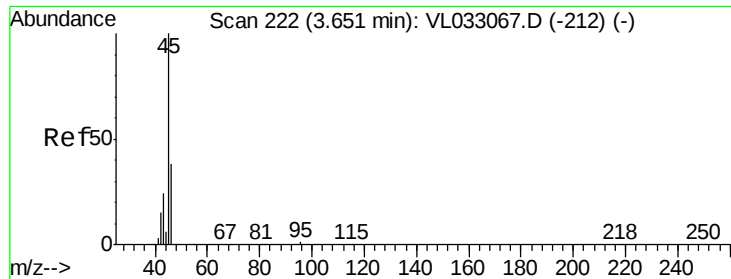
Tgt Ion:101 Resp: 1321633

Ion Ratio Lower Upper

101 100

151 73.2 58.3 87.5





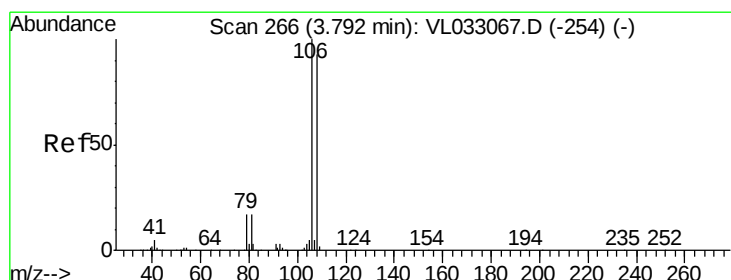
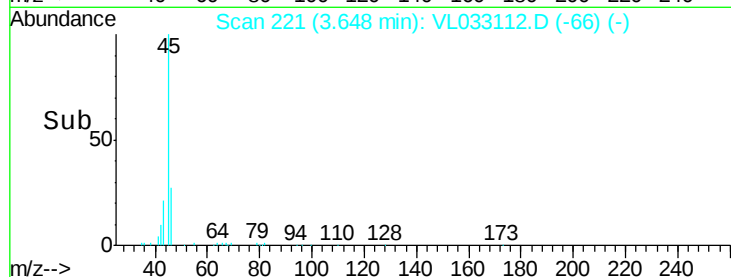
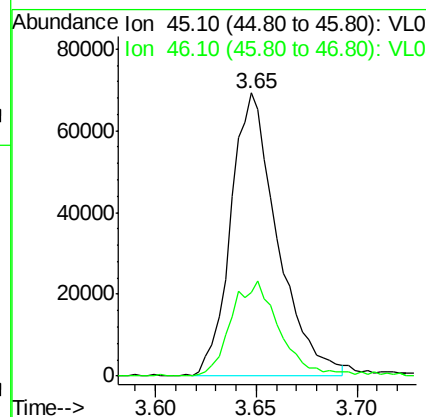
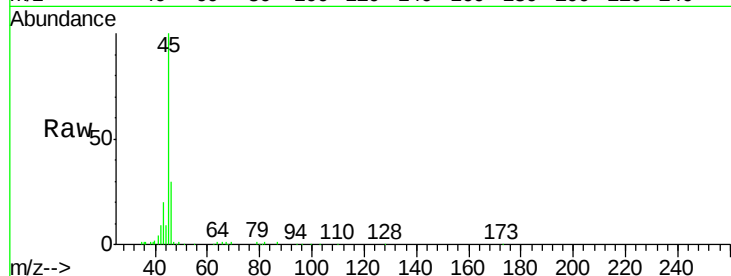
#13
Ethanol
Concen: 6.034 ppbv
RT: 3.65 min Scan# 221
Delta R.T. -0.00 min
Lab File: VL033112.D
Acq: 17 Jan 2019 4:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
45	100		
46	35.5	13.8	55.2

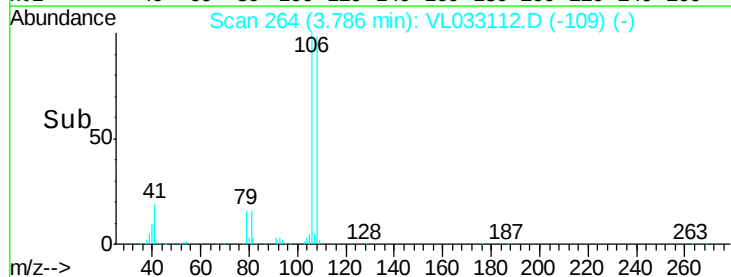
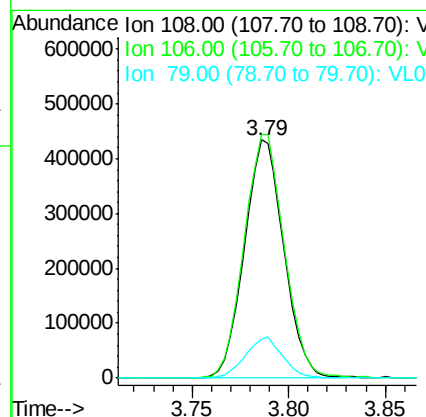
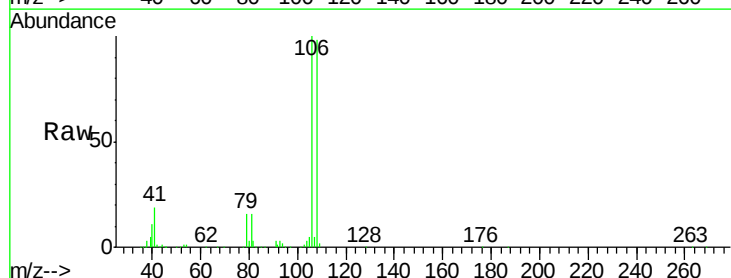
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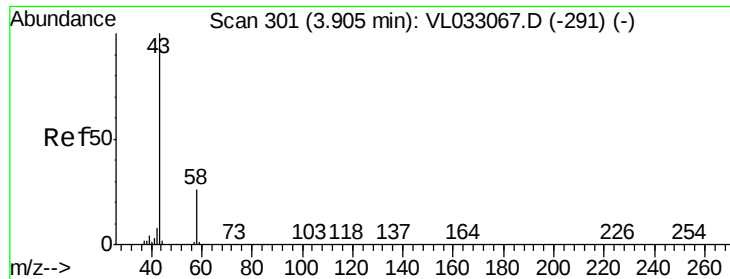
MMDadoda
1/17/2019 3:17:45 PM



#14
Bromoethene
Concen: 9.704 ppbv
RT: 3.79 min Scan# 264
Delta R.T. -0.00 min
Lab File: VL033112.D
Acq: 17 Jan 2019 4:29

Tgt Ion	Ratio	Lower	Upper
108	100		
106	105.0	86.4	129.6
79	16.4	14.3	21.5





#15

Acetone

Concen: 9.316 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.00 min

Lab File: VL033112.D

Acq: 17 Jan 2019 4:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1422286

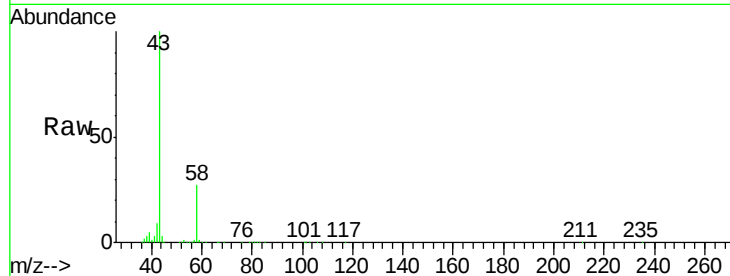
Ion Ratio Lower Upper

43 100

58 27.2 21.1 31.7

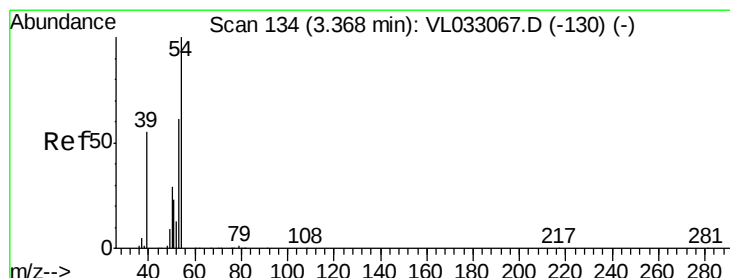
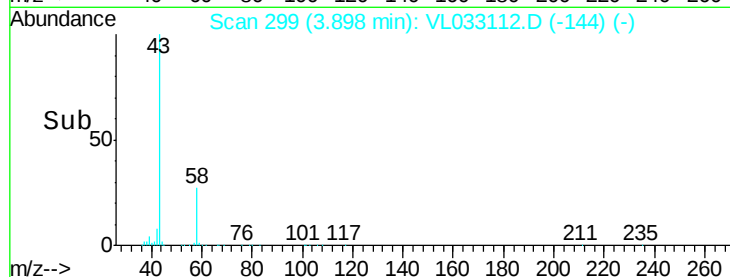
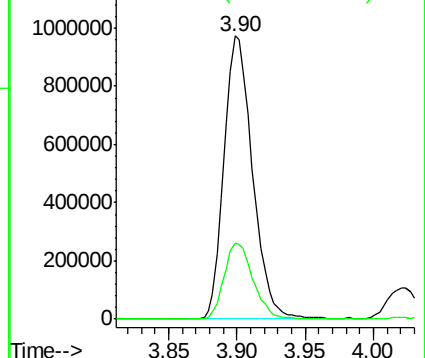
Manual Integrations
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 11.073 ppbv

RT: 3.36 min Scan# 133

Delta R.T. 0.00 min

Lab File: VL033112.D

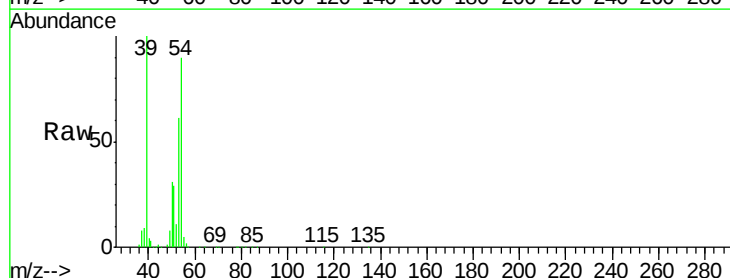
Acq: 17 Jan 2019 4:29

Tgt Ion: 39 Resp: 637503

Ion Ratio Lower Upper

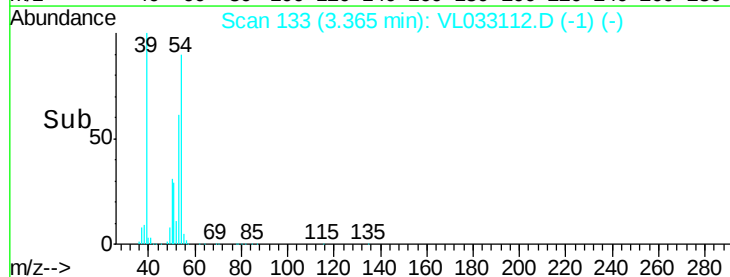
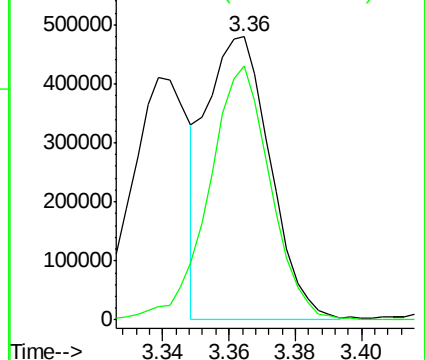
39 100

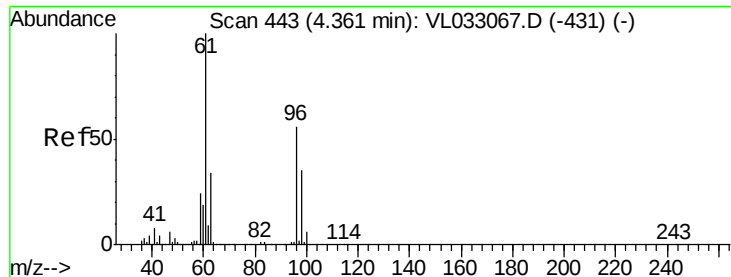
54 87.5 73.7 110.5



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

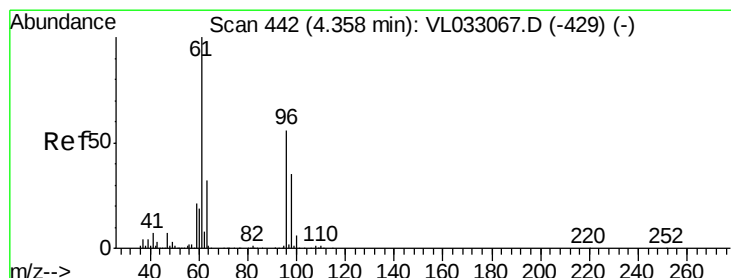
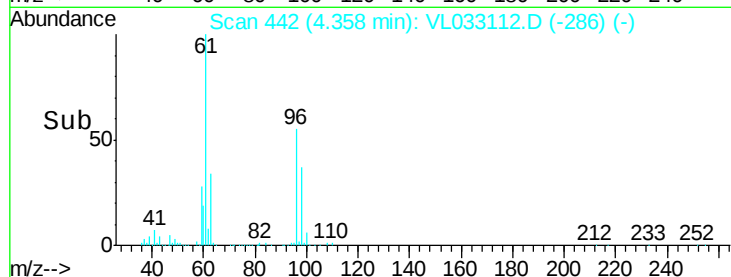
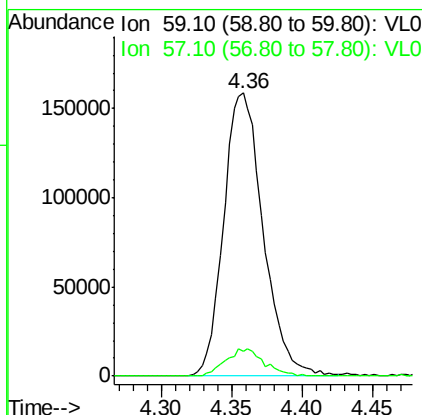
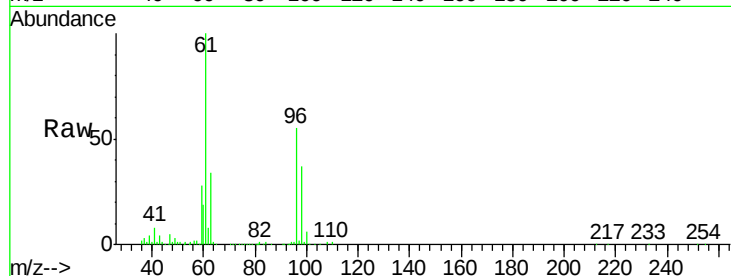
tert-Butyl alcohol
Concen: 9.611 ppbv
RT: 4.36 min Scan# 442
Delta R.T. 0.00 min
Lab File: VL033112.D
Acq: 17 Jan 2019 4:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 59 Resp: 310809
Ion Ratio Lower Upper
59 100
57 9.6 7.7 11.5

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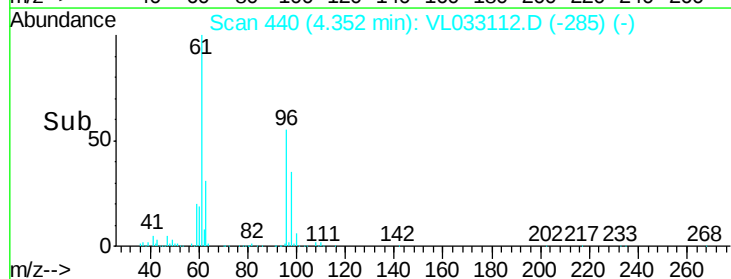
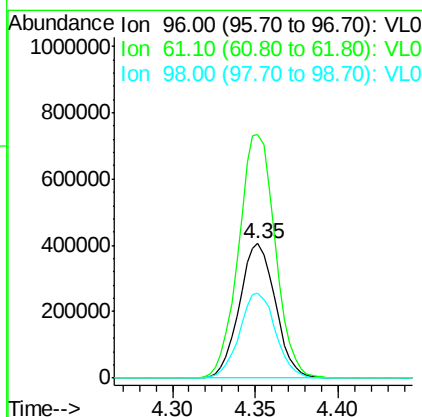
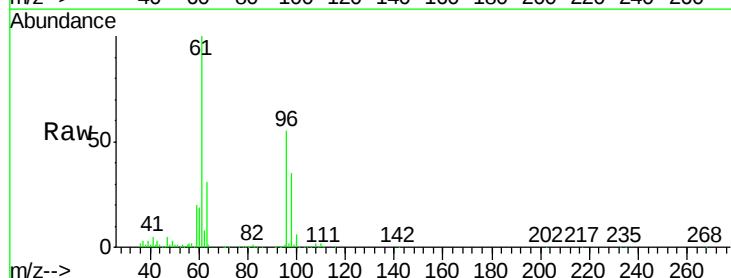
MMDadoda
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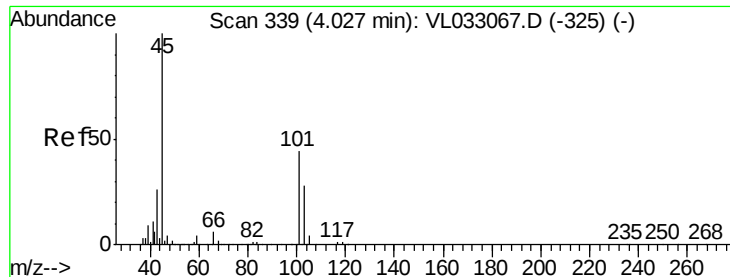


#18

1,1-Dichloroethene
Concen: 9.300 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033112.D
Acq: 17 Jan 2019 4:29

Tgt Ion: 96 Resp: 614372
Ion Ratio Lower Upper
96 100
61 181.0 143.7 215.5
98 63.0 52.1 78.1





#19

Isopropyl Alcohol

Concen: 7.156 ppbv

RT: 4.02 min Scan# 337

Delta R.T. -0.00 min

Lab File: VL033112.D

Acq: 17 Jan 2019 4:29

Tot Ion	45	Ratio	Lower	Upper
752077	100			
58	1.7	1.4	2.2	

Instrument :

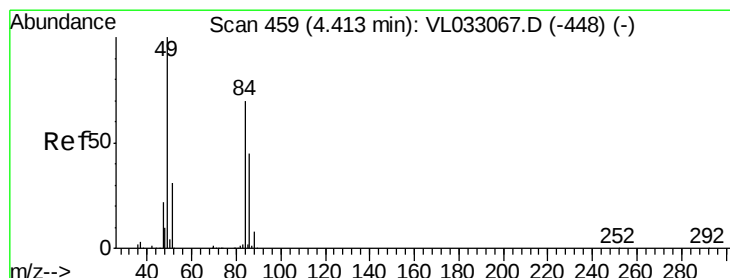
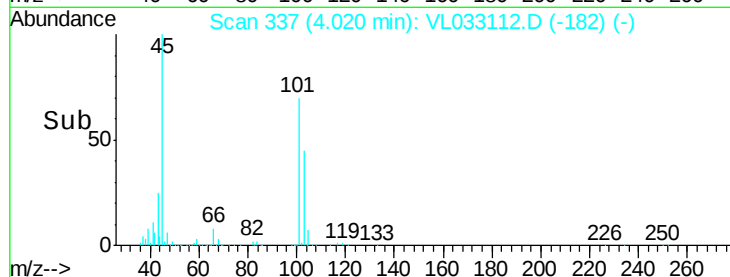
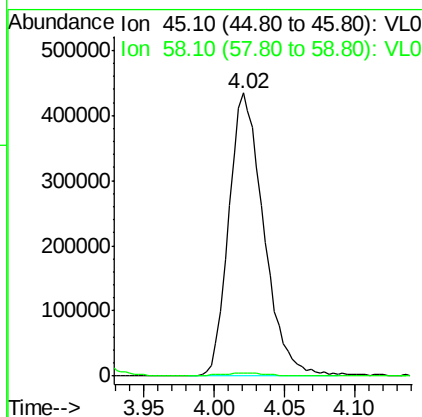
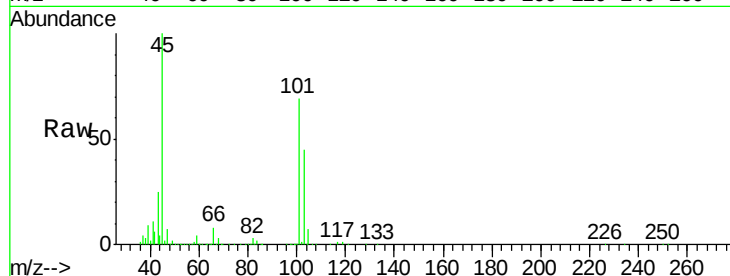
MSVOA_L

ClientSampleId :

VSTDCCC010EC

Manual Integrations
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#20

Methylene Chloride

Concen: 8.255 ppbv

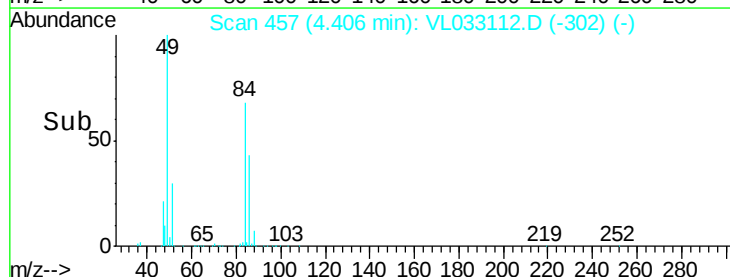
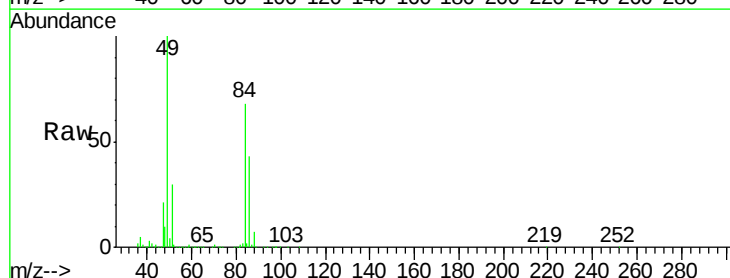
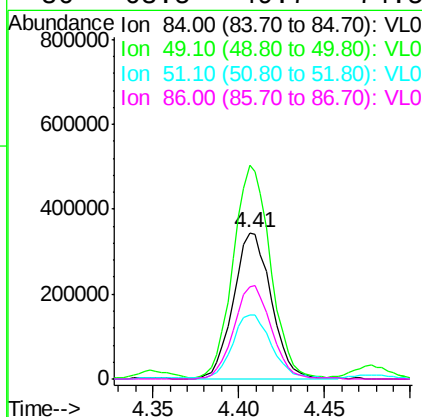
RT: 4.41 min Scan# 457

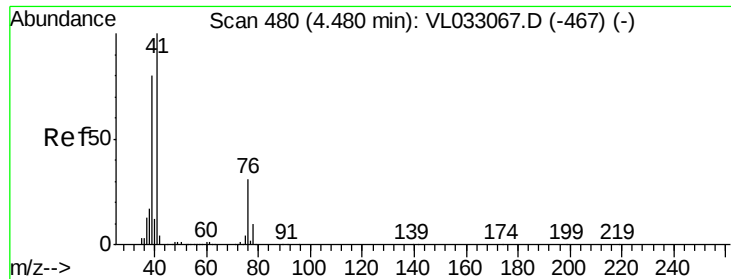
Delta R.T. -0.00 min

Lab File: VL033112.D

Acq: 17 Jan 2019 4:29

Tgt Ion	84	Ratio	Lower	Upper
525408	100			
49	145.5	115.8	173.6	
51	43.6	35.7	53.5	
86	63.5	49.7	74.5	





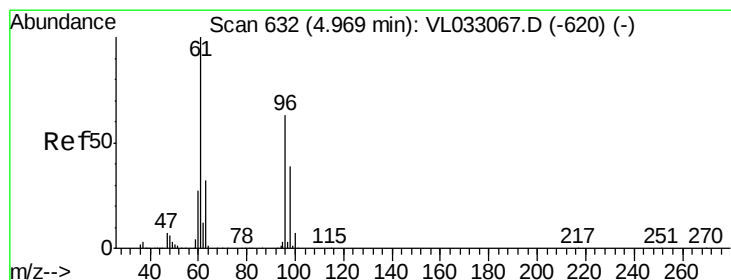
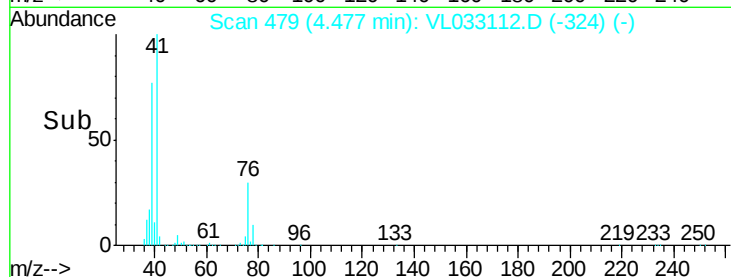
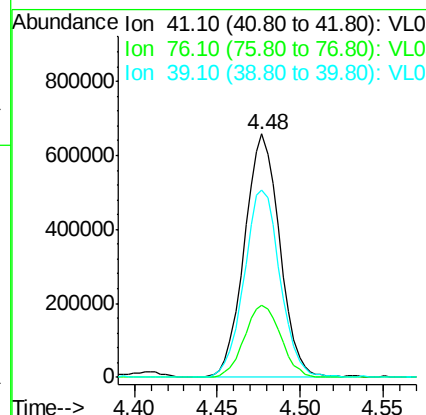
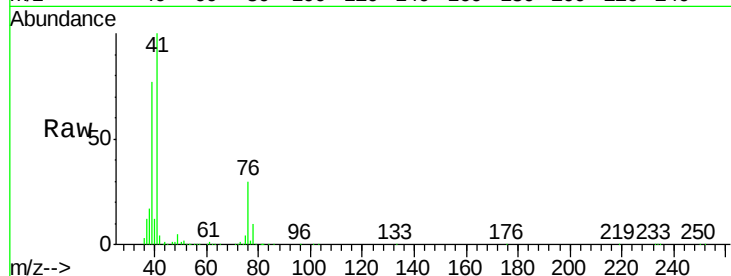
#21
Allvl Chloride
Concen: 10.258 ppbv
RT: 4.48 min Scan# 479
Delta R.T. -0.00 min
Lab File: VL033112.D
Acq: 17 Jan 2019 4:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.7	24.6	36.8
39	79.0	62.8	94.2

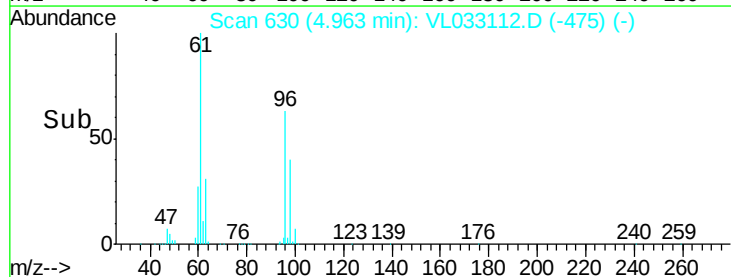
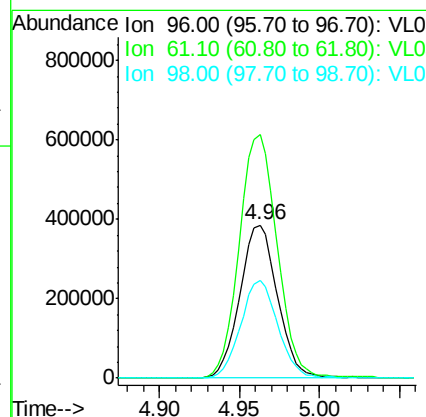
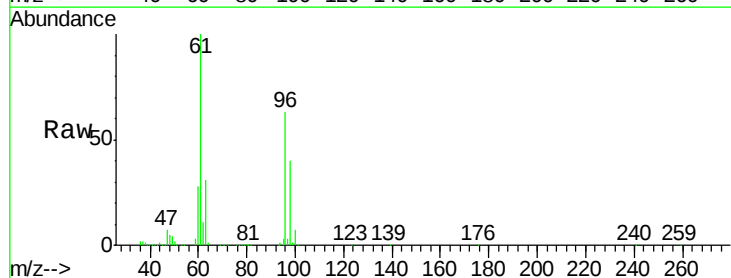
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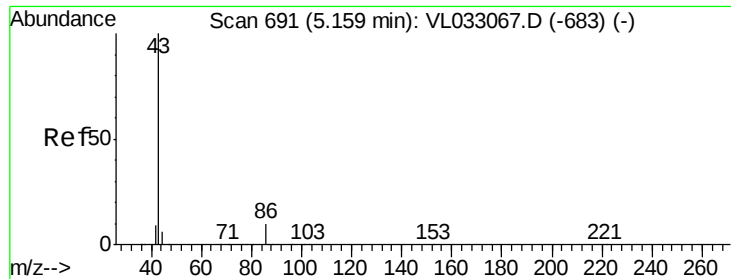
MMDadoda
1/17/2019 3:17:45 PM



#22
trans-1,2-Dichloroethene
Concen: 9.408 ppbv
RT: 4.96 min Scan# 630
Delta R.T. -0.00 min
Lab File: VL033112.D
Acq: 17 Jan 2019 4:29

Tgt Ion	Ratio	Lower	Upper
96	100		
61	158.9	125.2	187.8
98	63.9	50.9	76.3





#23

Vinyl Acetate

Concen: 10.627 ppbv

RT: 5.15 min Scan# 689

Delta R.T. -0.01 min

Lab File: VL033112.D

Acq: 17 Jan 2019 4:29

Tot Ion: 43 Resp: 2063983

Ion Ratio Lower Upper

43 100

86 9.0 6.2 9.4

42 10.7 8.1 12.1

44 5.6 4.3 6.5

Instrument :

MSVOA_L

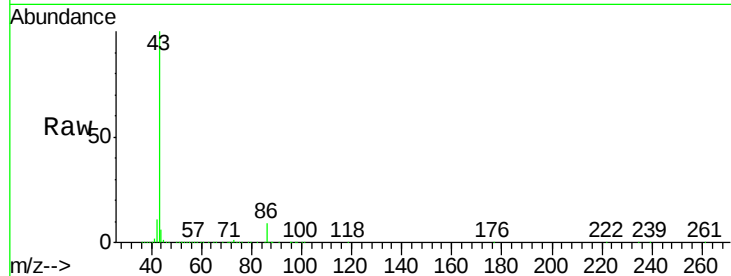
ClientSampleId :

VSTDCCC010EC

Manual Integrations
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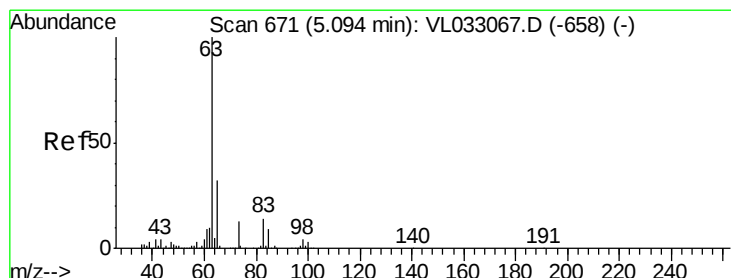
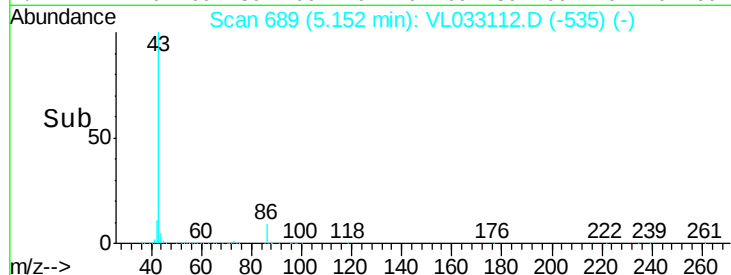
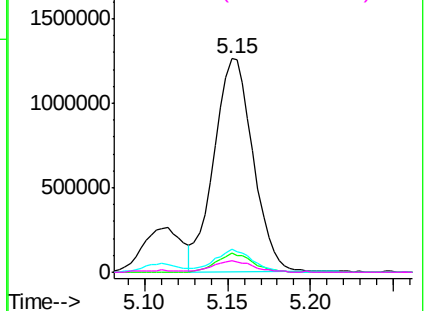


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.262 ppbv

RT: 5.09 min Scan# 670

Delta R.T. -0.00 min

Lab File: VL033112.D

Acq: 17 Jan 2019 4:29

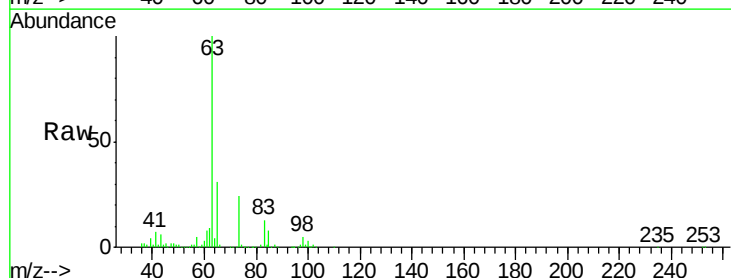
Tgt Ion: 63 Resp: 1527354

Ion Ratio Lower Upper

63 100

98 4.6 2.4 7.2

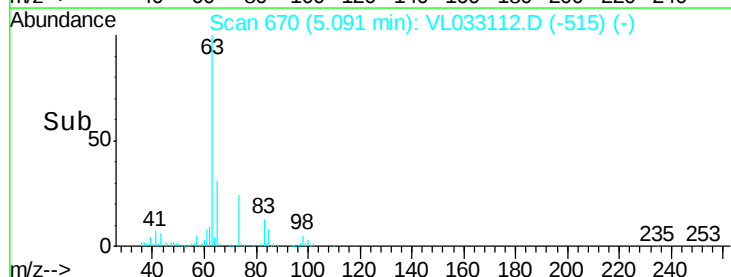
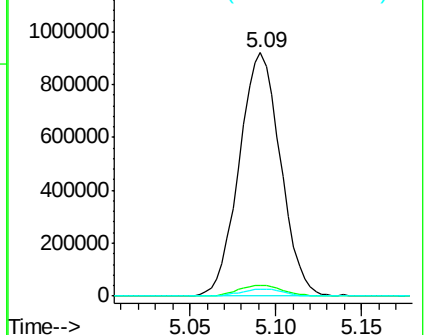
100 2.9 1.4 4.0

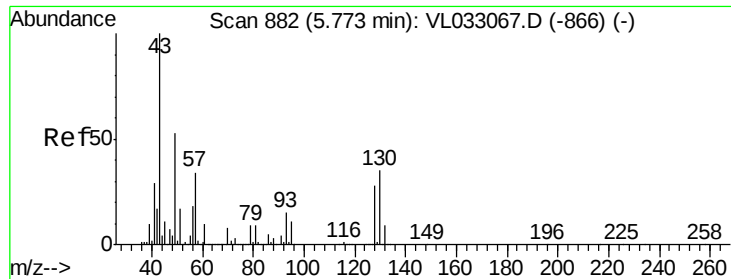


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





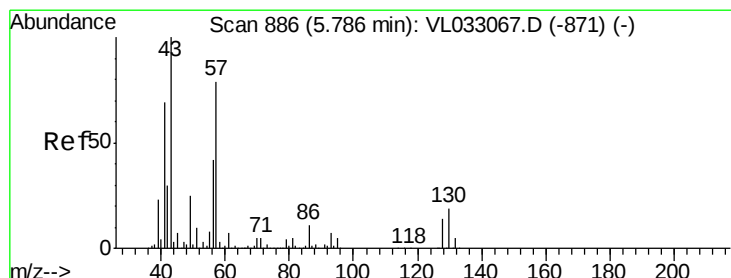
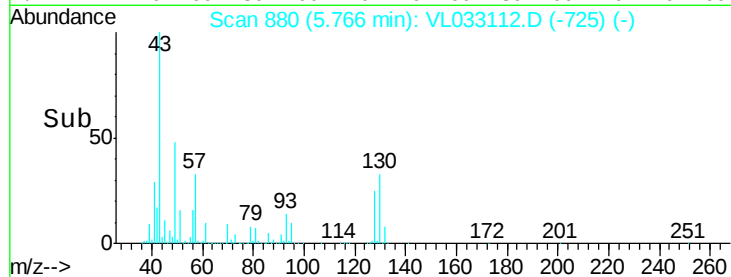
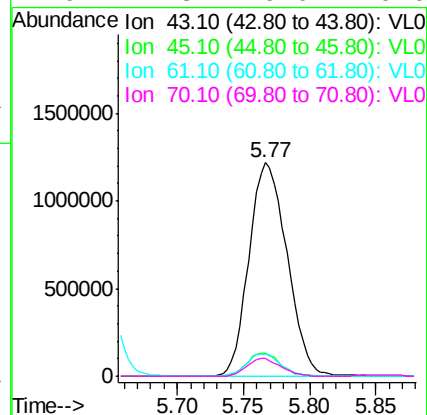
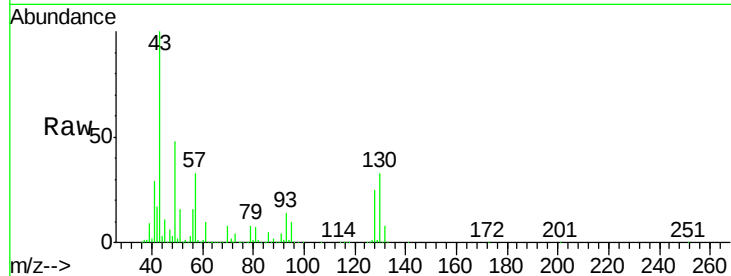
#25
Ethyl Acetate
Concen: 9.430 ppbv
RT: 5.77 min Scan# 880
Delta R.T. -0.00 min
Lab File: VL033112.D
Acq: 17 Jan 2019 4:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:	43	Resp:	2433478
Ion	Ratio	Lower	Upper
43	100		
45	9.8	7.9	11.9
61	9.6	7.8	11.8
70	7.3	6.0	9.0

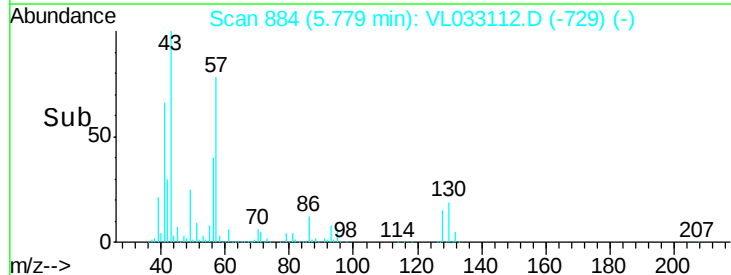
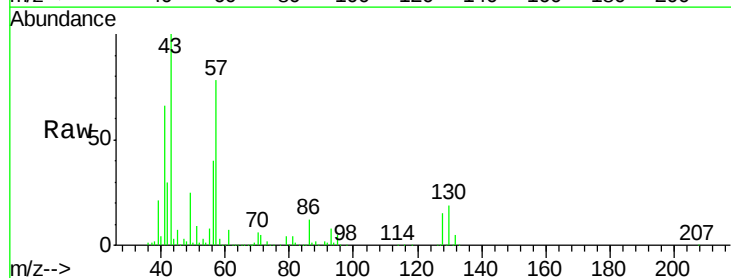
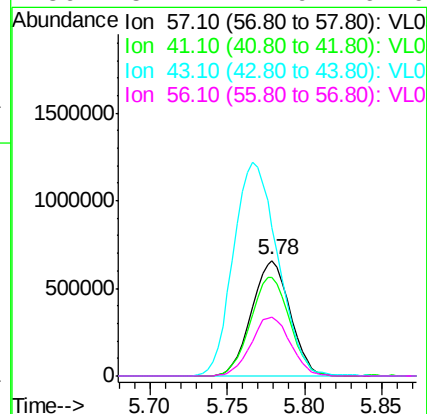
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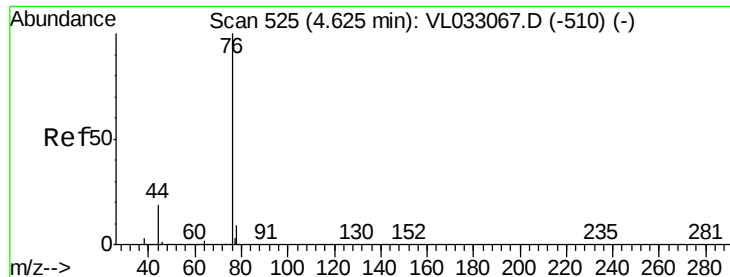
MMDadoda
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#26
Hexane
Concen: 9.373 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033112.D
Acq: 17 Jan 2019 4:29

Tgt Ion:	57	Resp:	1138919
Ion	Ratio	Lower	Upper
57	100		
41	87.3	70.8	106.2
43	214.8	171.8	257.6
56	52.2	41.9	62.9





#27

Carbon Disulfide

Concen: 10.284 ppbv

RT: 4.62 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL033112.D

Acq: 17 Jan 2019 4:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1541120

Ion Ratio Lower Upper

76 100

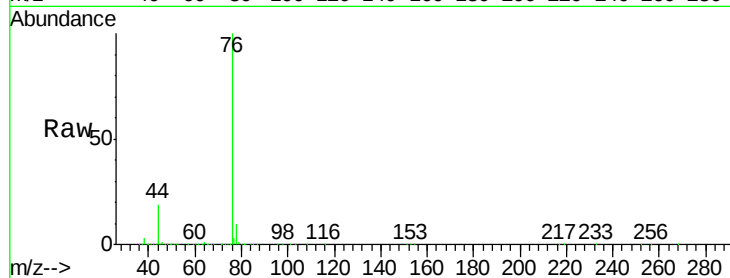
44 18.2 13.9 20.9

78 9.4 7.3 10.9

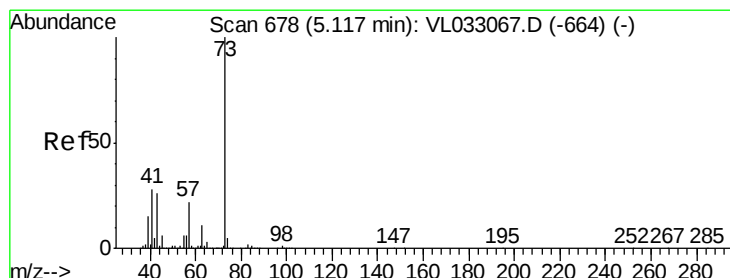
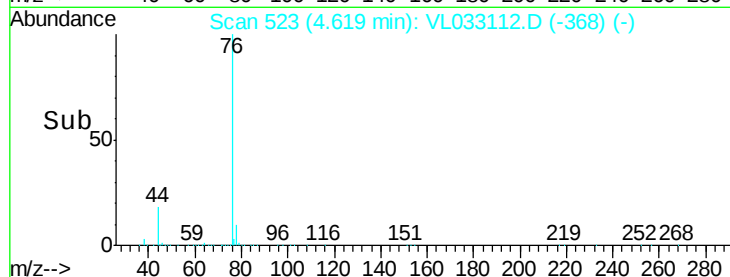
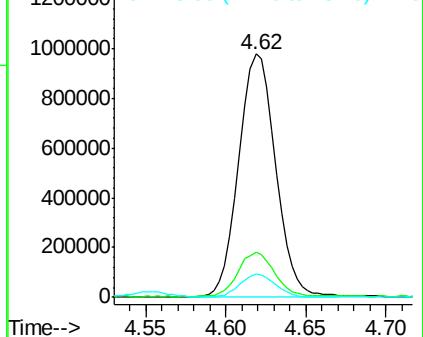
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1/17/2019 3:17:45 PM



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: 10.247 ppbv

RT: 5.11 min Scan# 676

Delta R.T. -0.00 min

Lab File: VL033112.D

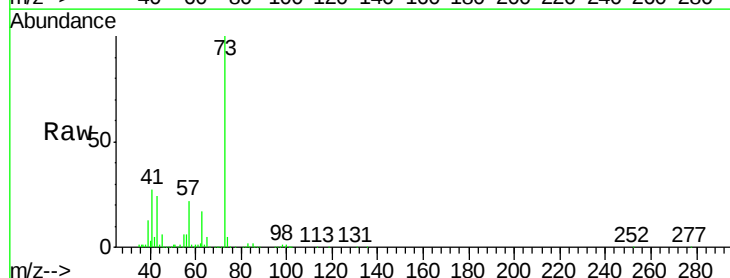
Acq: 17 Jan 2019 4:29

Tgt Ion: 73 Resp: 1943570

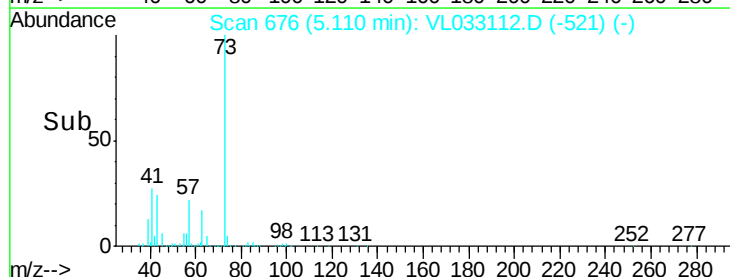
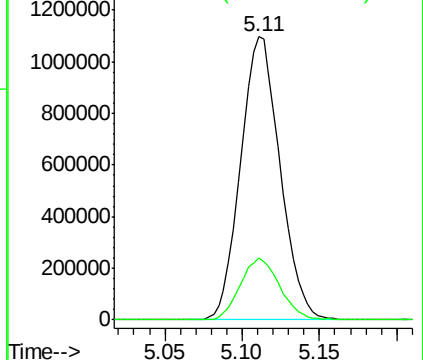
Ion Ratio Lower Upper

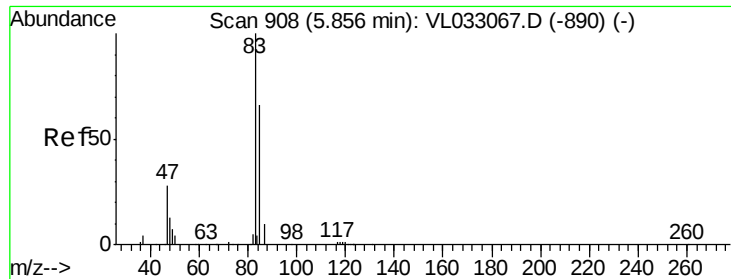
73 100

57 21.9 17.5 26.3



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





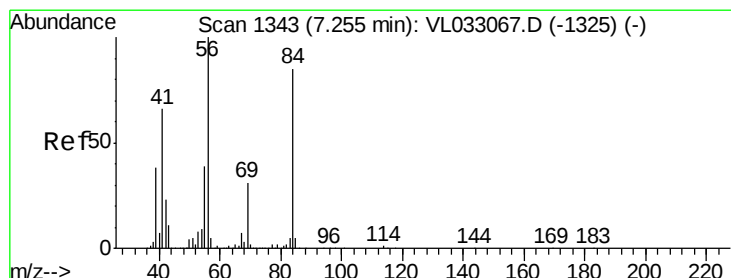
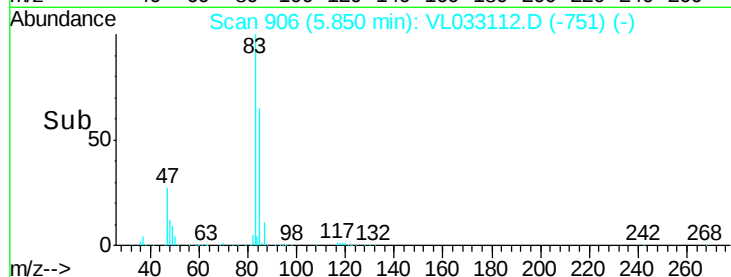
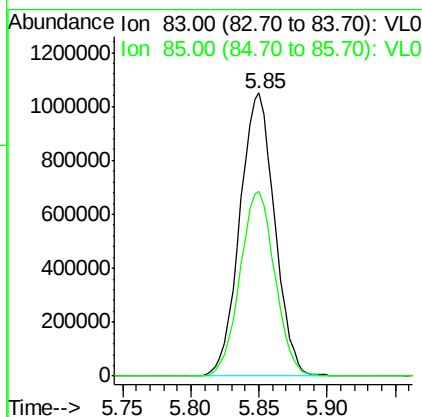
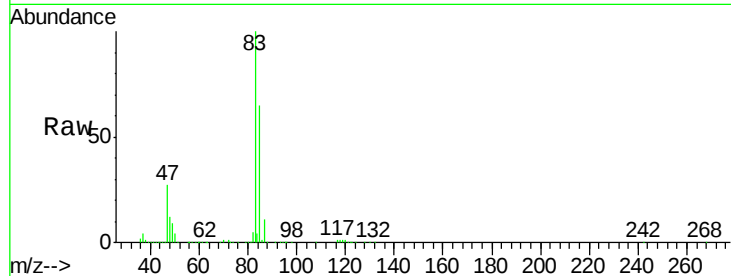
#29
Chloroform
Concen: 8.990 ppbv
RT: 5.85 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL033112.D
Acq: 17 Jan 2019 4:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1861512
Ion Ratio Lower Upper
83 100
85 65.4 52.5 78.7

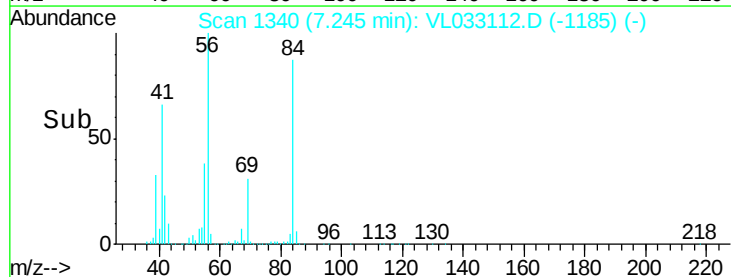
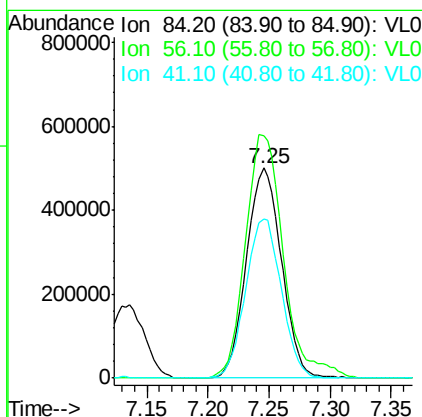
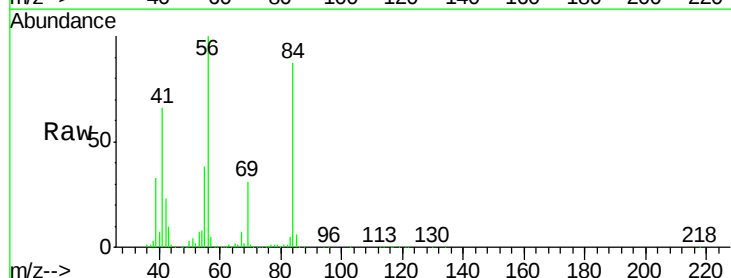
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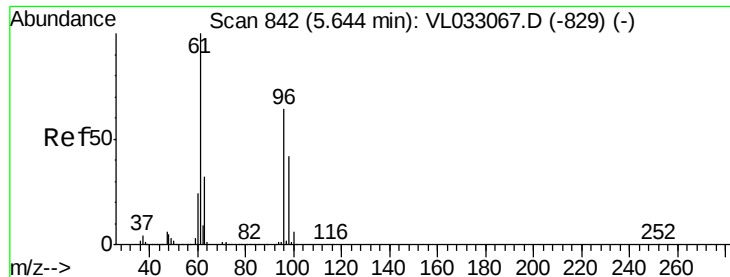
MMDadoda
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#30
Cyclohexane
Concen: 10.971 ppbv
RT: 7.25 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VL033112.D
Acq: 17 Jan 2019 4:29

Tgt Ion: 84 Resp: 993945
Ion Ratio Lower Upper
84 100
56 125.6 101.8 152.6
41 76.7 63.2 94.8





#31

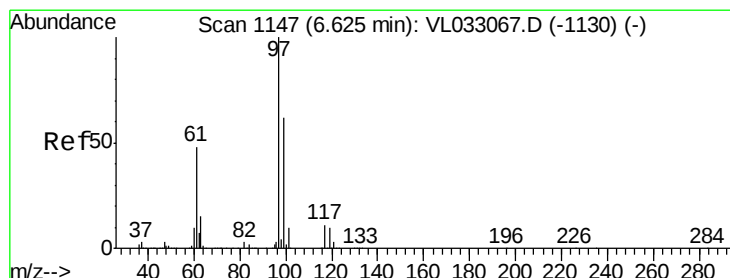
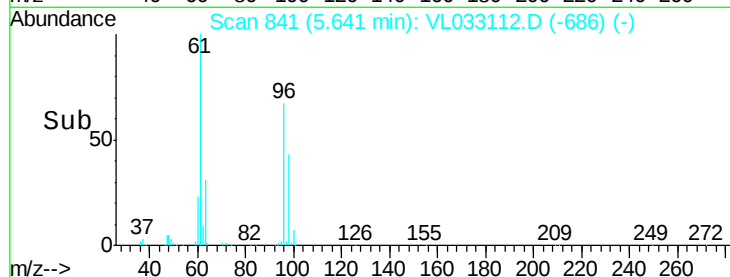
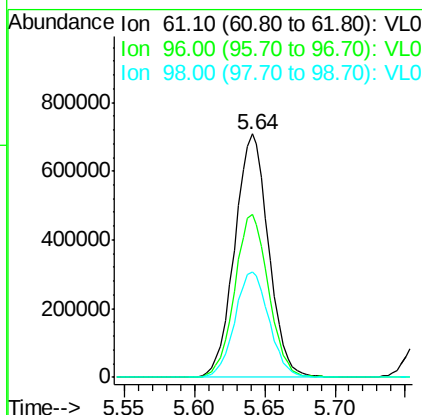
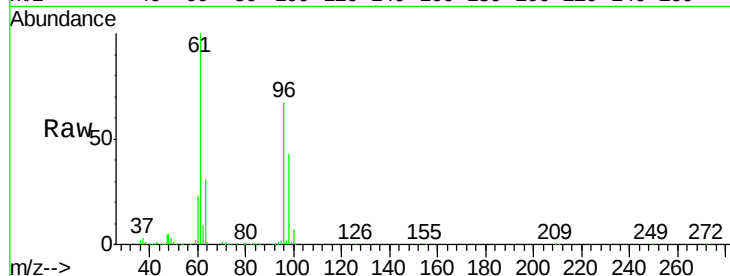
cis-1,2-Dichloroethene
 Concen: 10.553 ppbv
 RT: 5.64 min Scan# 841
 Delta R.T. -0.00 min
 Lab File: VL033112.D
 Acq: 17 Jan 2019 4:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	67.1	52.8	79.2
98	43.2	33.8	50.6

Manual Integrations
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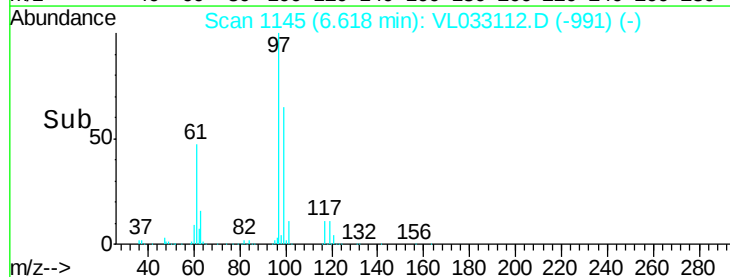
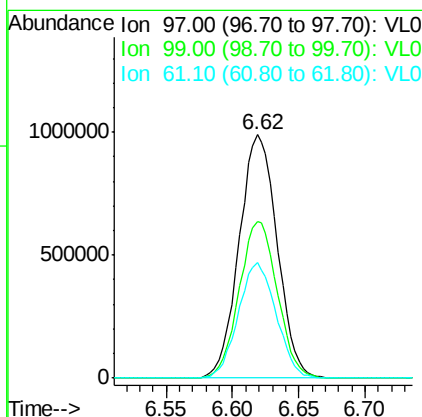
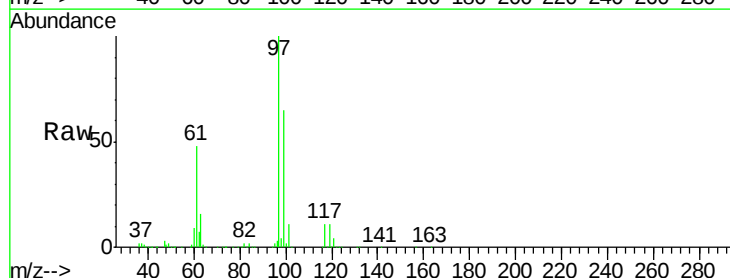
MMDadoda
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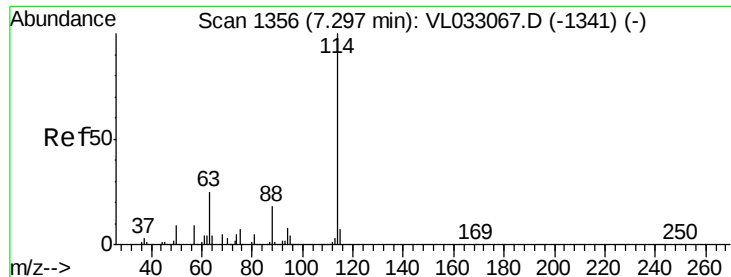


#32

1,1,1-Trichloroethane
 Concen: 9.401 ppbv
 RT: 6.62 min Scan# 1145
 Delta R.T. -0.01 min
 Lab File: VL033112.D
 Acq: 17 Jan 2019 4:29

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.1	76.7
61	47.3	38.3	57.5





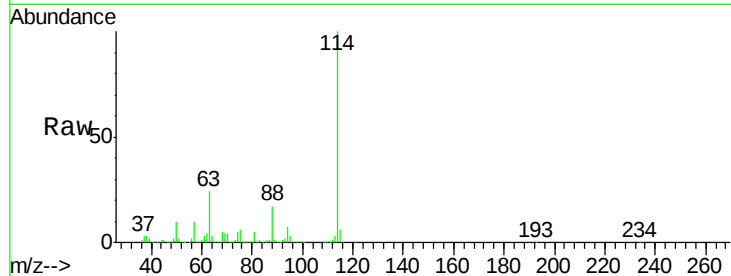
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.00 min
 Lab File: VL033112.D
 Acq: 17 Jan 2019 4:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

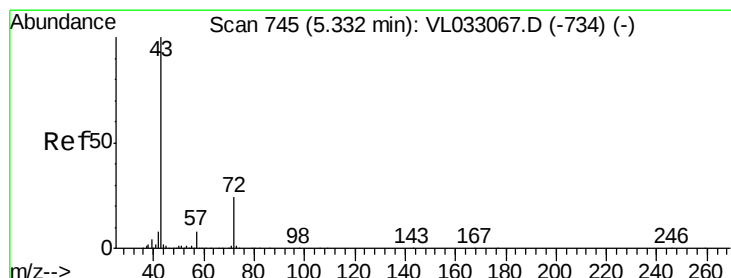
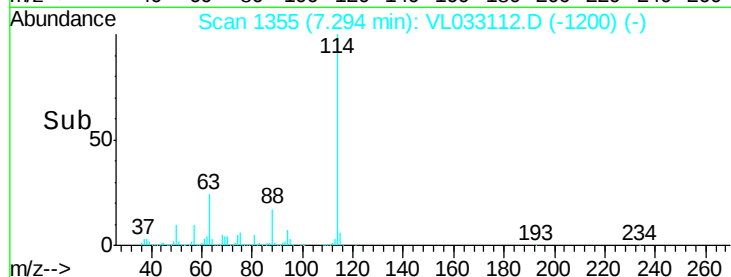
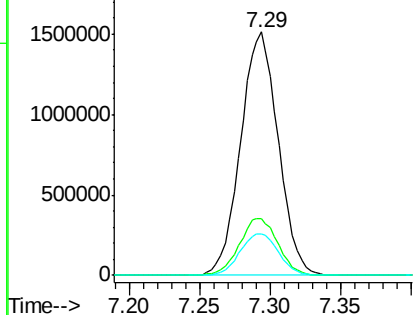
Tot Ion:114 Resp: 2817839
 Ion Ratio Lower Upper
 114 100
 63 24.3 20.1 30.1
 88 17.5 14.0 21.0

Manual Integrations
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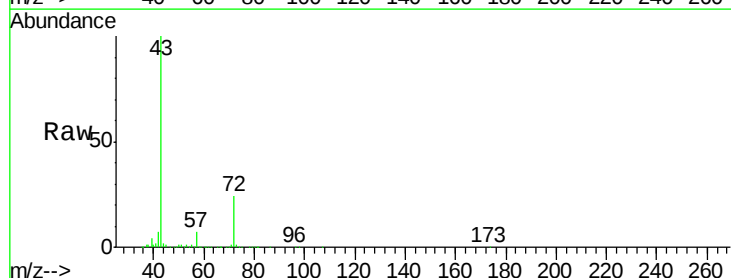


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

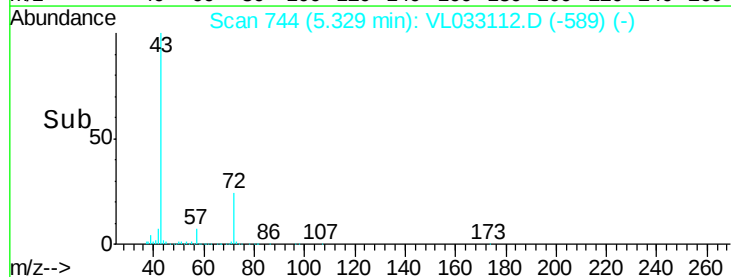
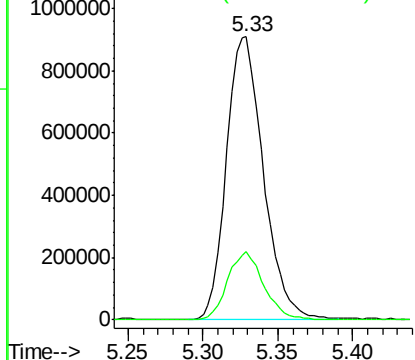


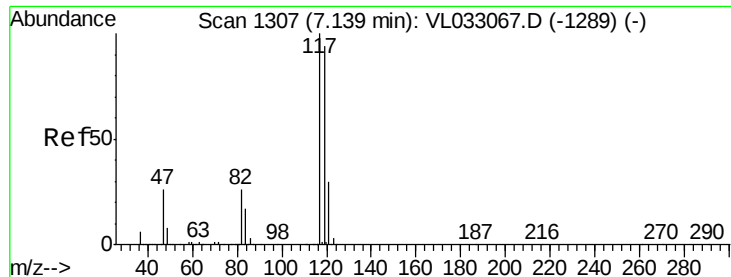
#34
 2-Butanone
 Concen: 9.503 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. -0.00 min
 Lab File: VL033112.D
 Acq: 17 Jan 2019 4:29

Tgt Ion: 43 Resp: 1555949
 Ion Ratio Lower Upper
 43 100
 72 23.8 18.9 28.3



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





#35

Carbon Tetrachloride

Concen: 8.858 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. -0.01 min

Lab File: VL033112.D

Acq: 17 Jan 2019 4:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 2144064

Ion Ratio Lower Upper

117 100

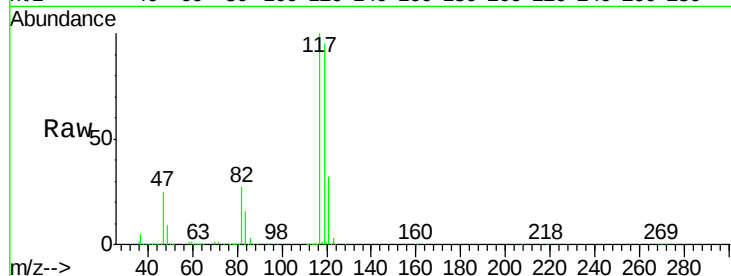
119 95.0 76.5 114.7

121 31.8 25.2 37.8

Manual Integrations
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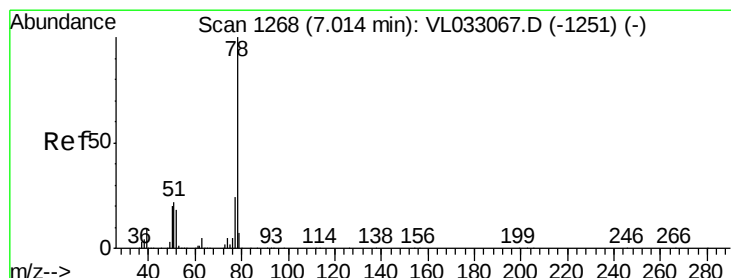
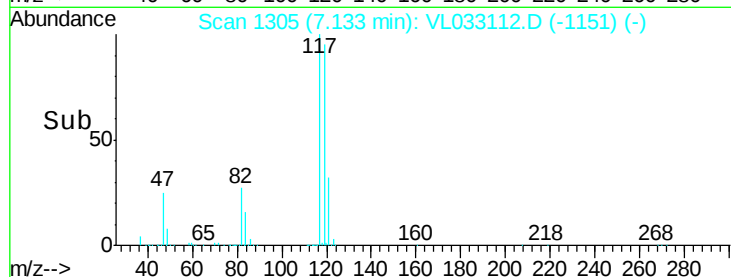
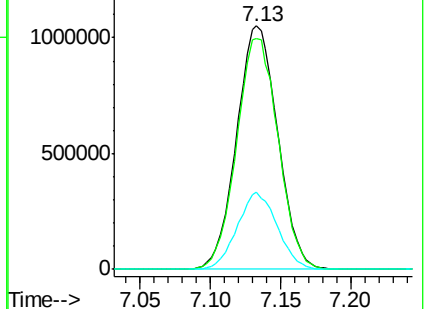
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.333 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.01 min

Lab File: VL033112.D

Acq: 17 Jan 2019 4:29

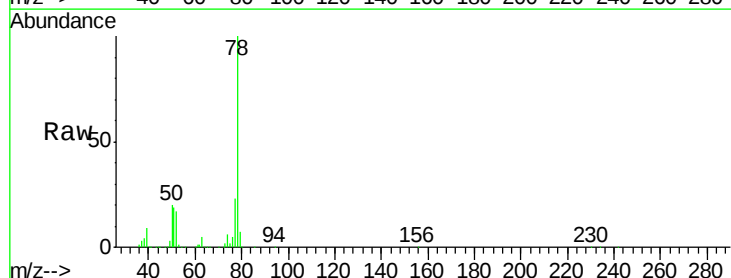
Tgt Ion: 78 Resp: 2385104

Ion Ratio Lower Upper

78 100

77 22.6 18.5 27.7

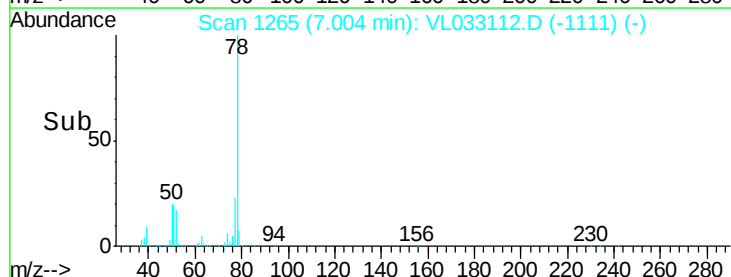
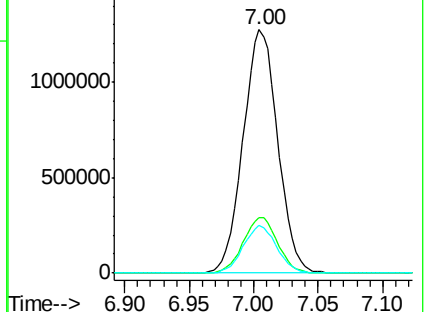
50 19.5 15.7 23.5

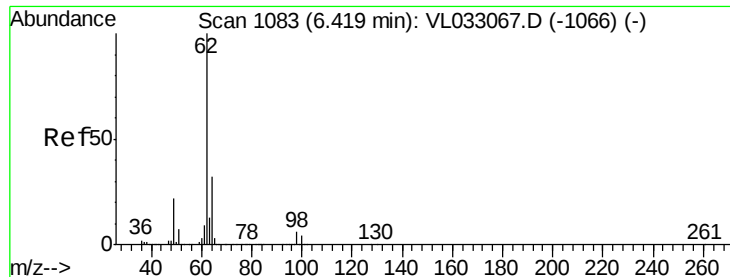


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





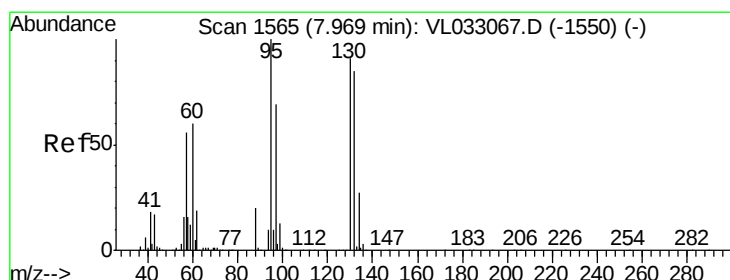
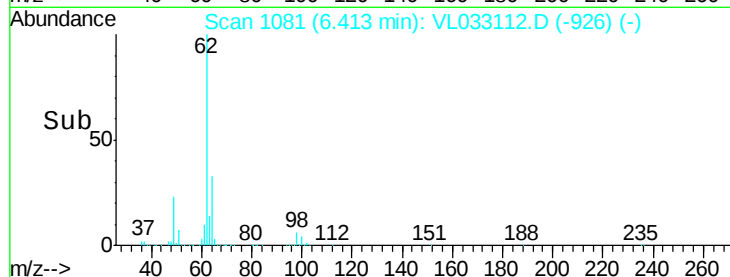
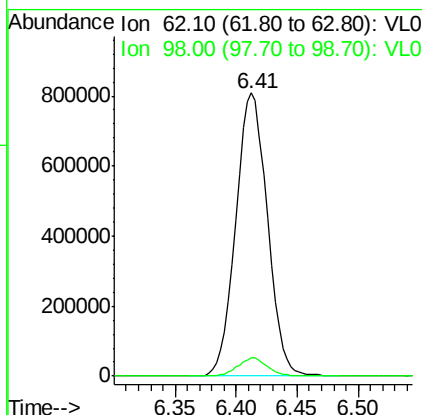
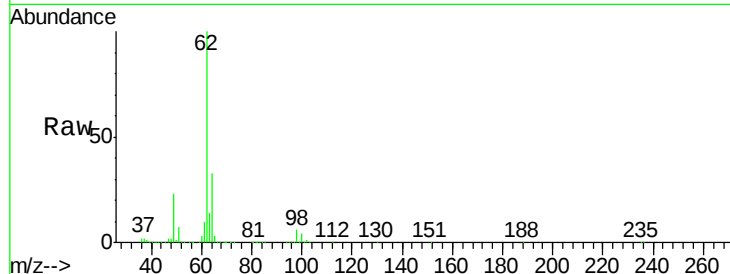
#37
 1,2-Dichloroethane
 Concen: 8.992 ppbv
 RT: 6.41 min Scan# 1081
 Delta R.T. -0.00 min
 Lab File: VL033112.D
 Acq: 17 Jan 2019 4:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 62 Resp: 1449068
 Ion Ratio Lower Upper
 62 100
 98 6.0 4.6 7.0

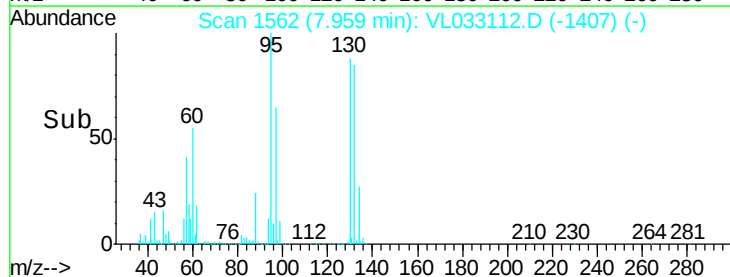
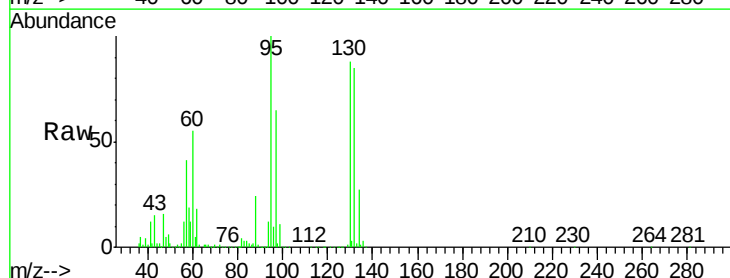
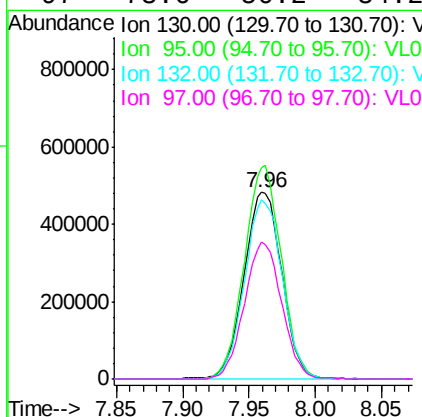
Manual Integrations
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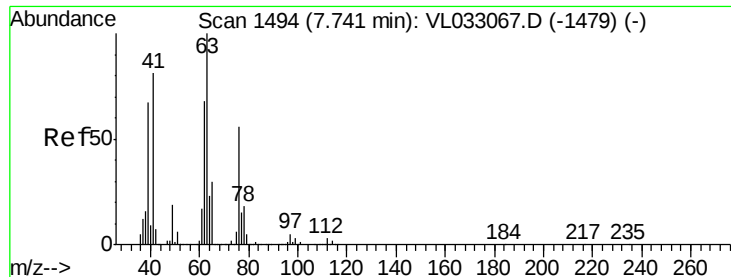
MMDadoda
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#38
 Trichloroethene
 Concen: 10.015 ppbv
 RT: 7.96 min Scan# 1562
 Delta R.T. -0.00 min
 Lab File: VL033112.D
 Acq: 17 Jan 2019 4:29

Tgt Ion:130 Resp: 950950
 Ion Ratio Lower Upper
 130 100
 95 113.7 88.6 132.8
 132 96.5 74.2 111.2
 97 73.6 56.2 84.2





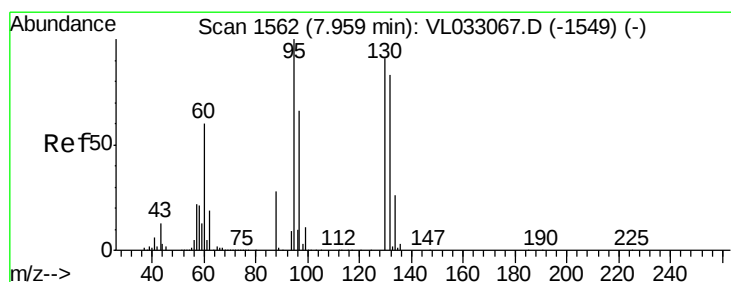
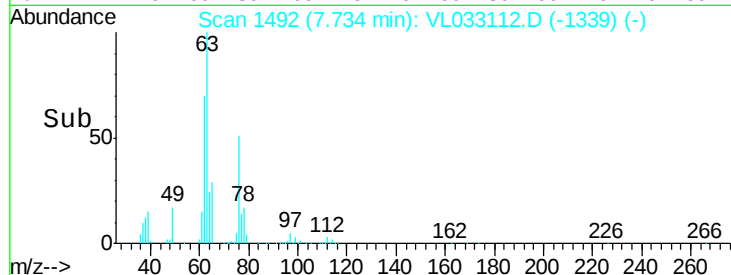
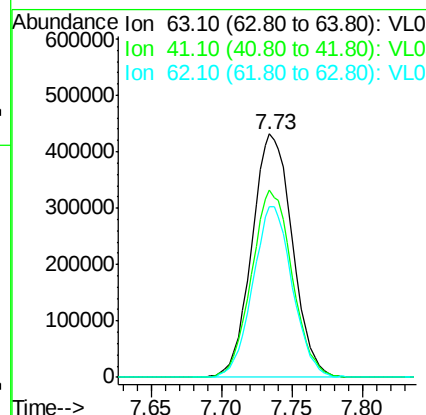
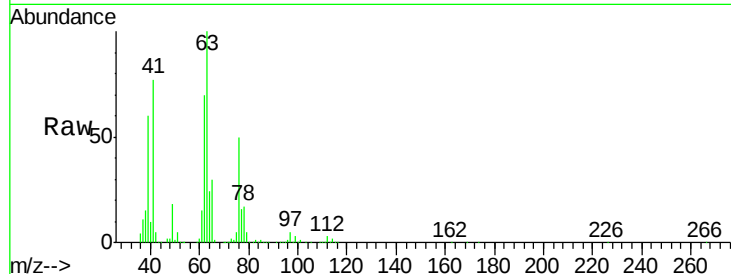
#39
 1,2-Dichloropropane
 Concen: 9.975 ppbv
 RT: 7.73 min Scan# 1492
 Delta R.T. -0.01 min
 Lab File: VL033112.D
 Acq: 17 Jan 2019 4:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	77.1	61.9	92.9
62	70.2	55.8	83.6

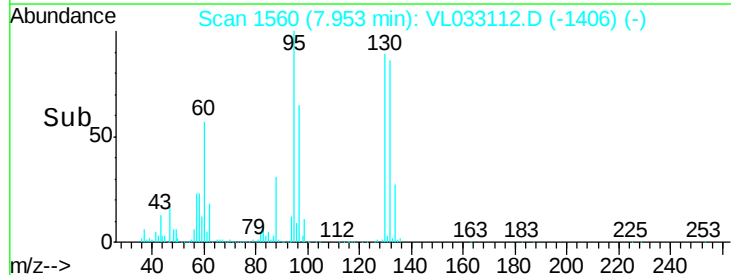
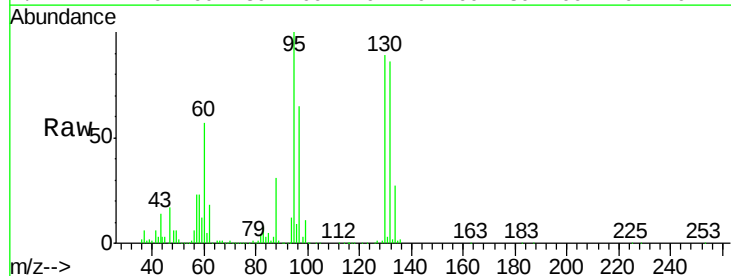
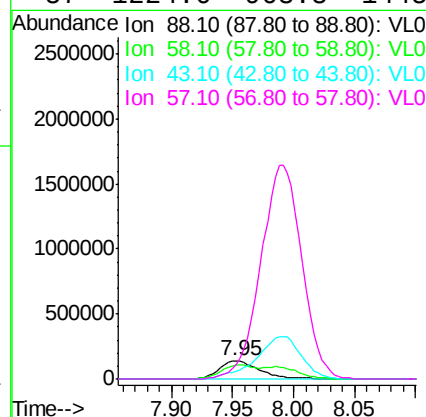
Manual Integrations
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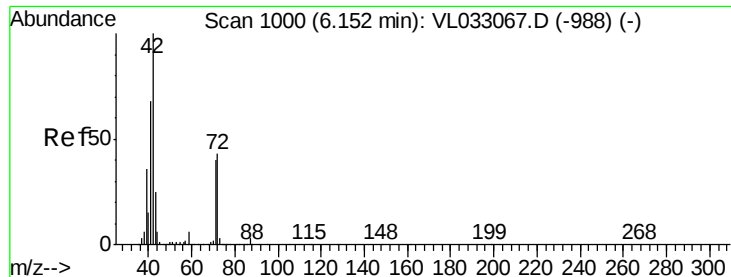
MMDadoda
 1/17/2019 3:17:45 PM



#40
 1,4-Dioxane
 Concen: 9.547 ppbv
 RT: 7.95 min Scan# 1560
 Delta R.T. -0.01 min
 Lab File: VL033112.D
 Acq: 17 Jan 2019 4:29

Tgt Ion	Ratio	Lower	Upper
88	100		
58	128.0	101.9	152.9
43	267.9	212.6	319.0
57	1224.6	963.8	1445.6





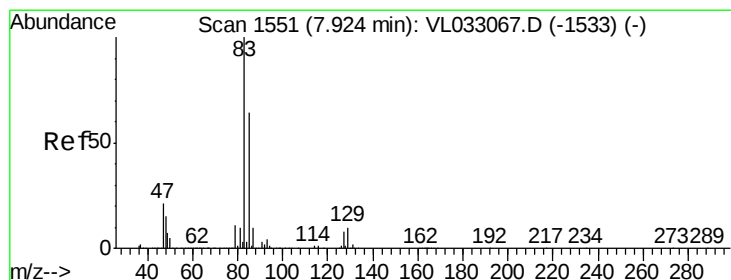
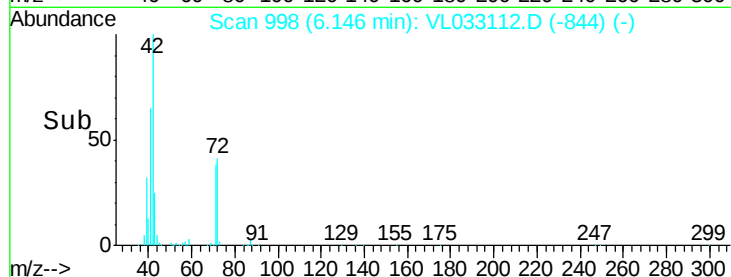
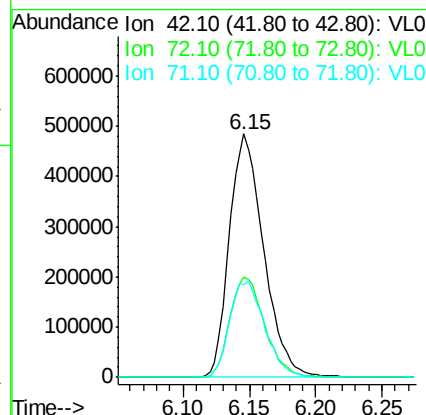
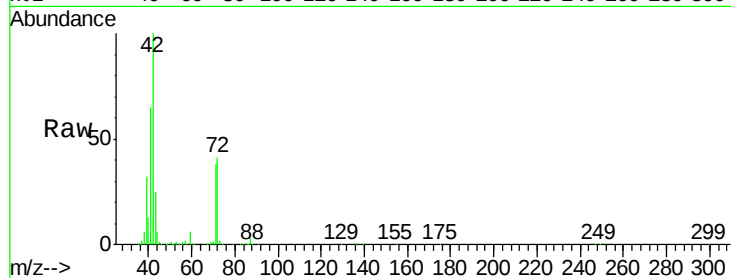
#41
Tetrahydrofuran
Concen: 10.474 ppbv
RT: 6.15 min Scan# 998
Delta R.T. -0.01 min
Lab File: VL033112.D
Acq: 17 Jan 2019 4:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	42.2	32.9	49.3
71	40.7	31.8	47.6

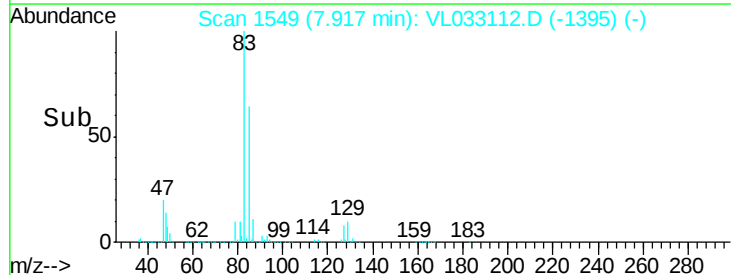
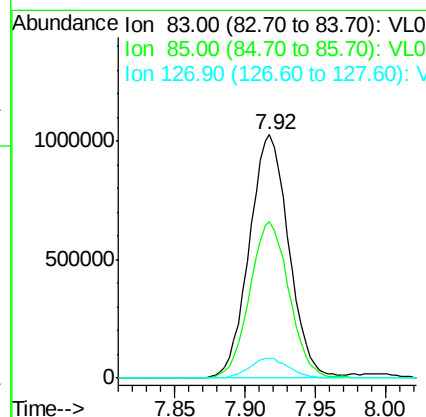
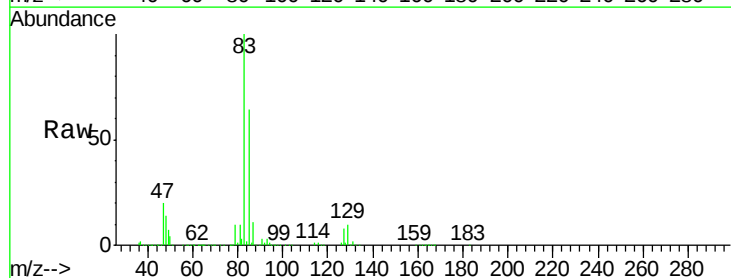
Manual Integrations
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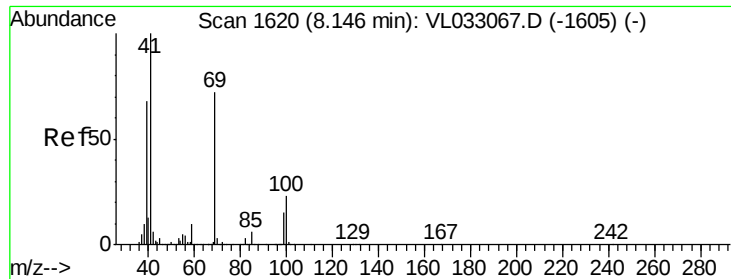
MMDadoda
1/17/2019 3:17:45 PM



#42
Bromodichloromethane
Concen: 9.097 ppbv
RT: 7.92 min Scan# 1549
Delta R.T. -0.01 min
Lab File: VL033112.D
Acq: 17 Jan 2019 4:29

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.2	51.0	76.4
127	8.1	6.5	9.7





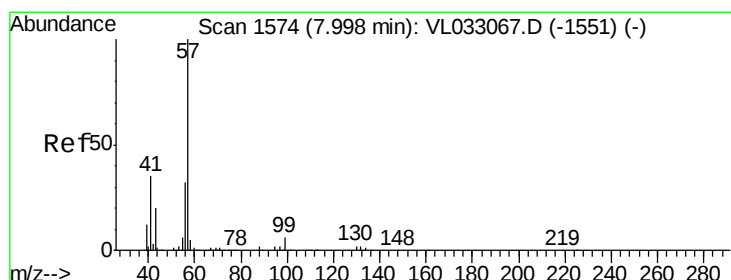
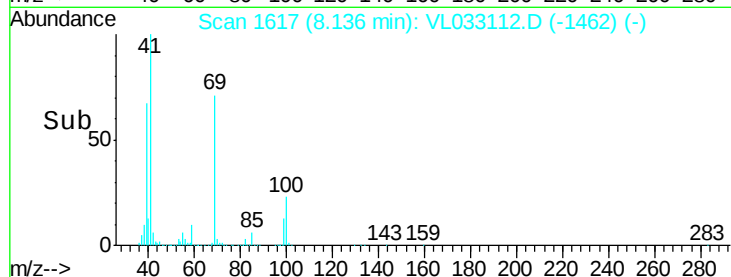
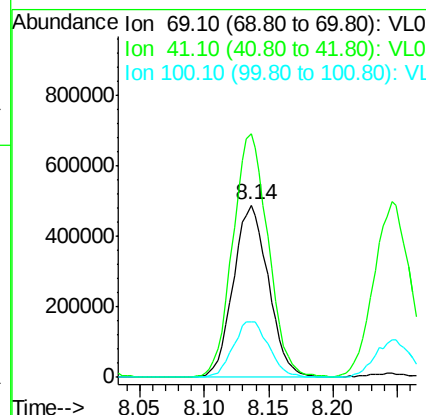
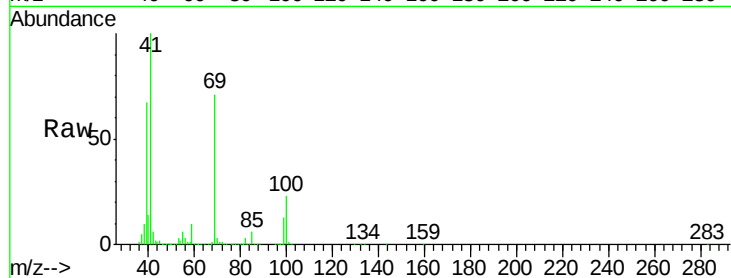
#43
Methvl Methacrylate
Concen: 10.650 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. -0.00 min
Lab File: VL033112.D
Acq: 17 Jan 2019 4:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	142.7	114.0	171.0	
100	33.0	26.3	39.5	

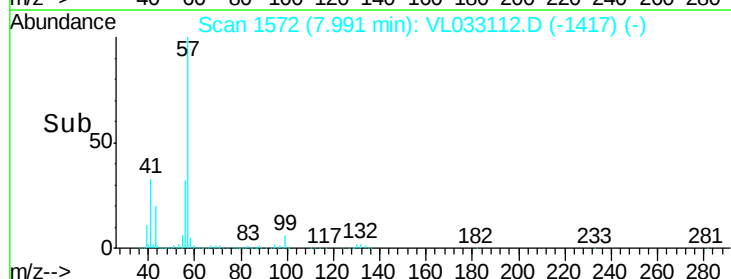
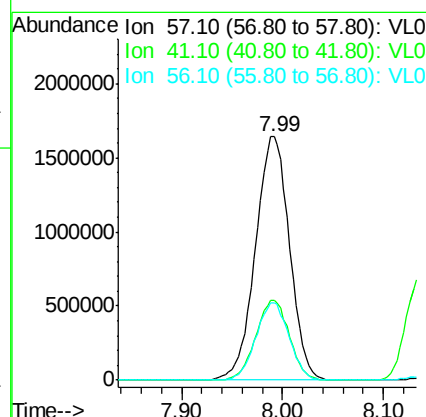
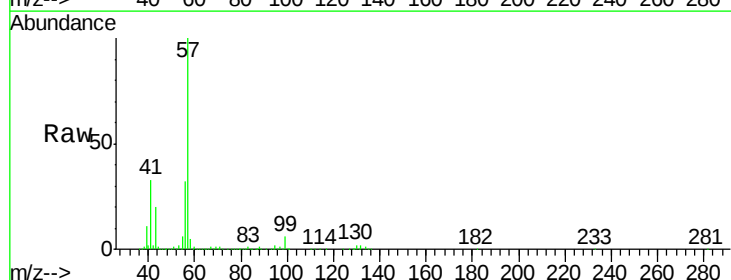
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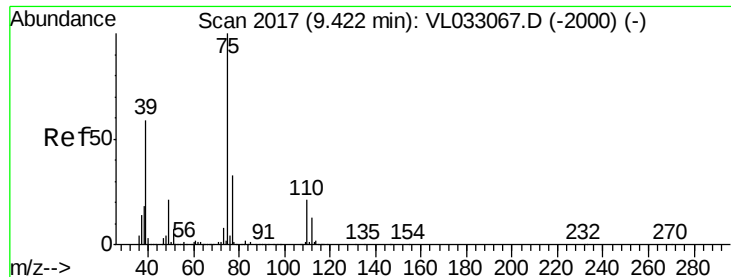
MMDadoda
1/17/2019 3:17:45 PM



#44
2,2,4-Trimethylpentane
Concen: 9.833 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. -0.00 min
Lab File: VL033112.D
Acq: 17 Jan 2019 4:29

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	32.3	26.2	39.2	
56	30.9	24.9	37.3	





#45

t-1,3-Dichloropropene

Concen: 11.337 ppbv

RT: 9.41 min Scan# 2014

Delta R.T. -0.01 min

Lab File: VL033112.D

Acq: 17 Jan 2019 4:29

Tot Ion: 75 Resp: 1222267

Ion Ratio Lower Upper

75 100

77 31.5 24.8 37.2

Instrument :

MSVOA_L

ClientSampleId :

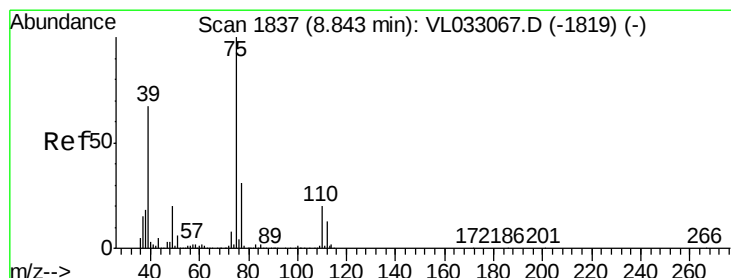
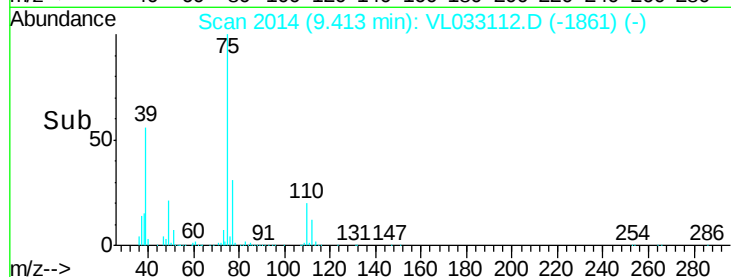
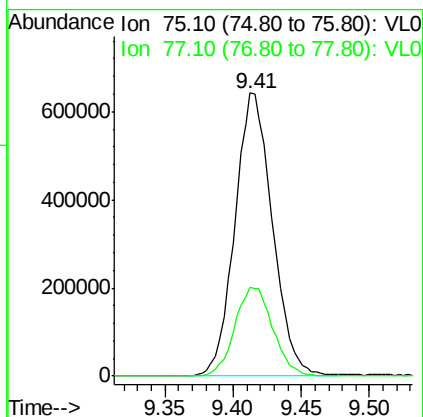
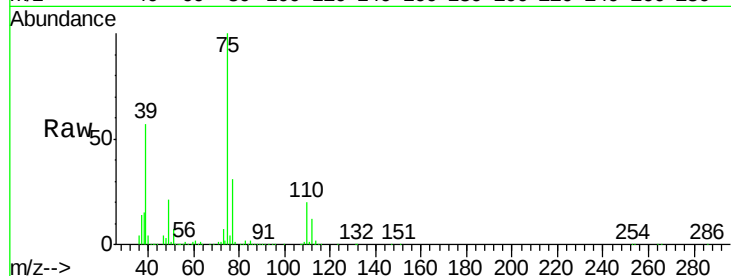
VSTDCCC010EC

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#46

cis-1,3-Dichloropropene

Concen: 11.709 ppbv

RT: 8.83 min Scan# 1834

Delta R.T. -0.01 min

Lab File: VL033112.D

Acq: 17 Jan 2019 4:29

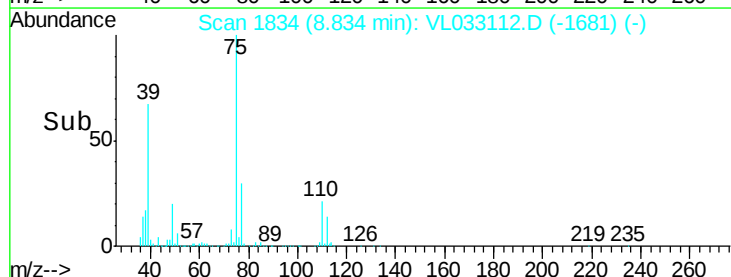
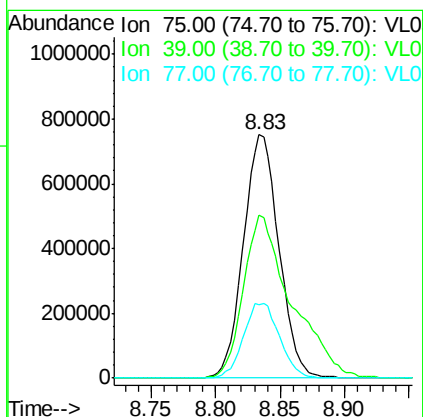
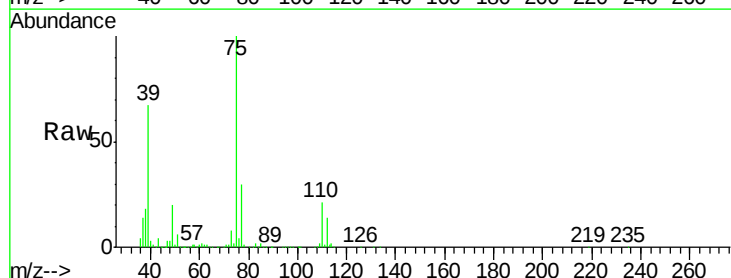
Tgt Ion: 75 Resp: 1440788

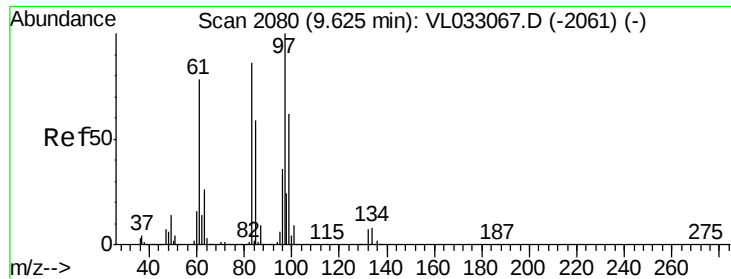
Ion Ratio Lower Upper

75 100

39 67.1 51.3 76.9

77 30.0 25.5 38.3





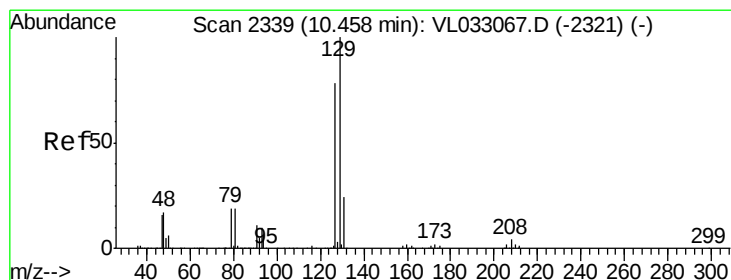
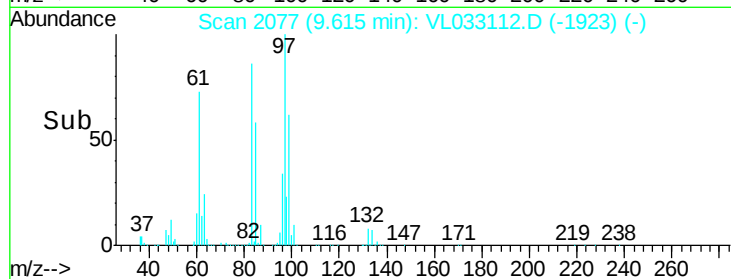
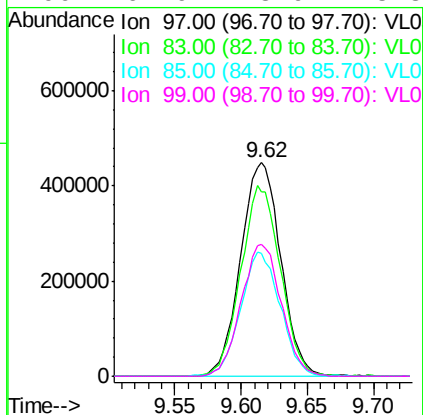
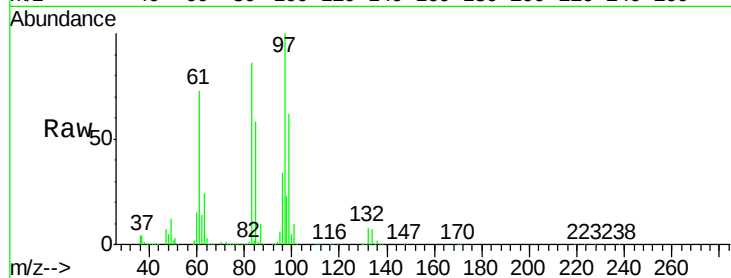
#47
 1,1,2-Trichloroethane
 Concen: 9.319 ppbv
 RT: 9.62 min Scan# 2077
 Delta R.T. -0.01 min
 Lab File: VL033112.D
 Acq: 17 Jan 2019 4:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		944103		
83	86.3	69.4	104.2		
85	57.4	44.2	66.2		
99	61.9	48.9	73.3		

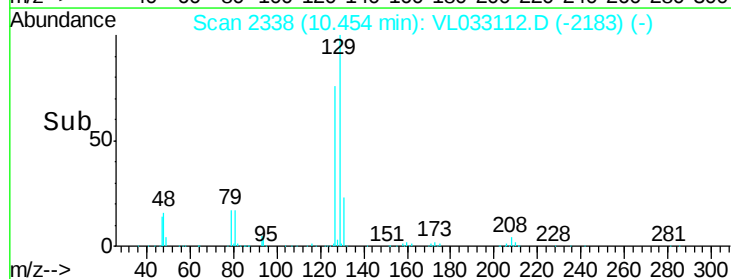
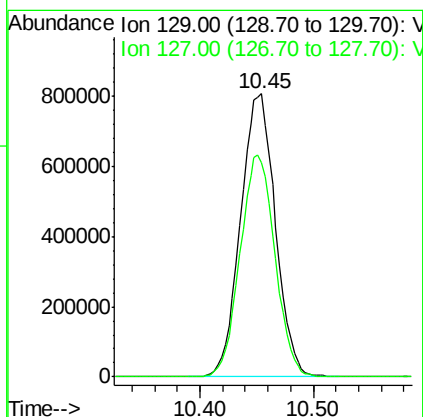
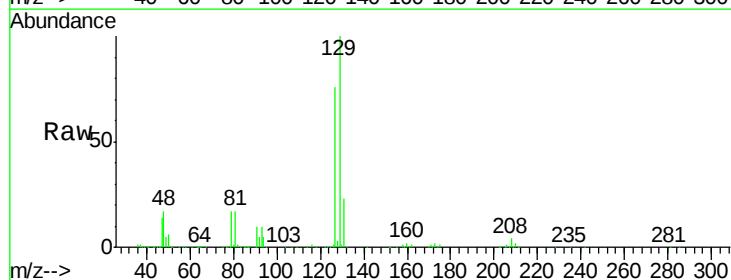
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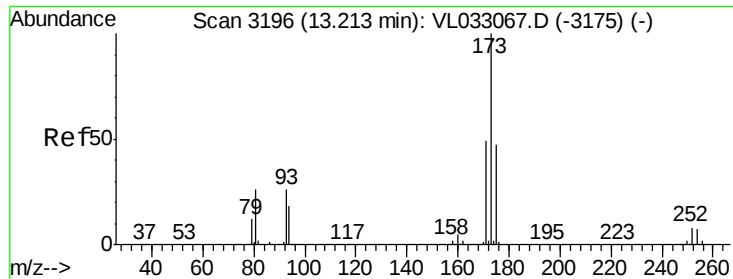
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#48
 Dibromochloromethane
 Concen: 9.655 ppbv
 RT: 10.45 min Scan# 2338
 Delta R.T. -0.00 min
 Lab File: VL033112.D
 Acq: 17 Jan 2019 4:29

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		1728192		
127	78.4	39.1	117.3		





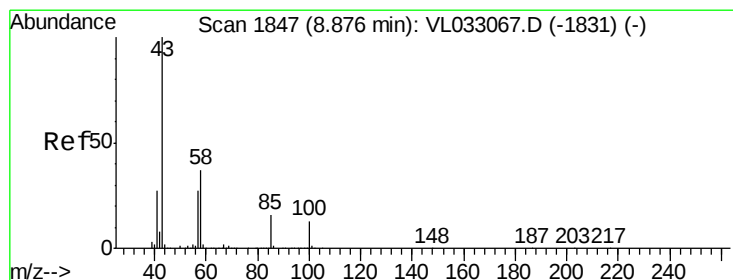
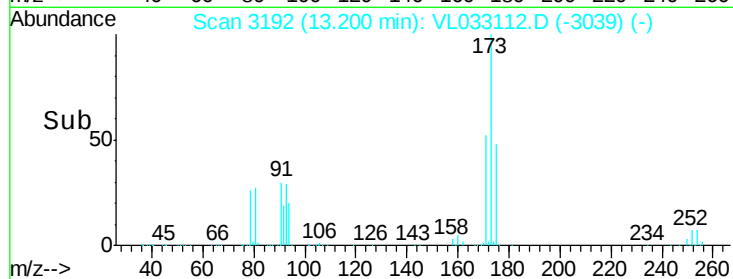
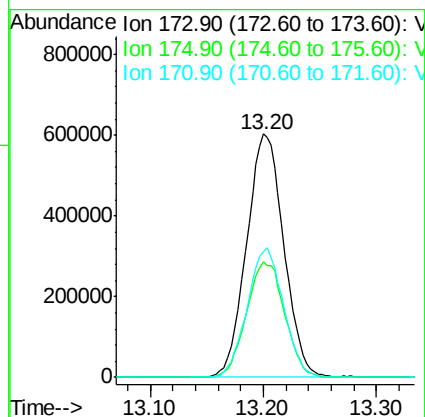
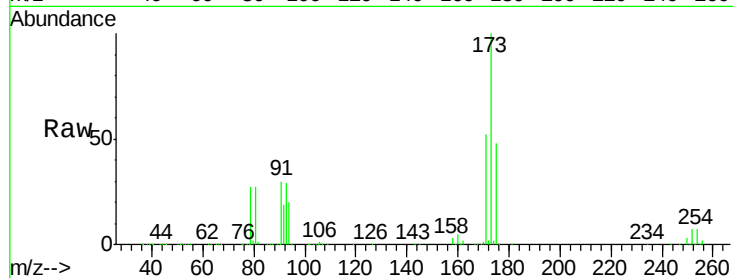
#49
Bromoform
Concen: 8.809 ppbv
RT: 13.20 min Scan# 3192
Delta R.T. -0.01 min
Lab File: VL033112.D
Acq: 17 Jan 2019 4:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:173 Resp: 1377543
Ion Ratio Lower Upper
173 100
175 48.8 39.4 59.2
171 52.1 42.1 63.1

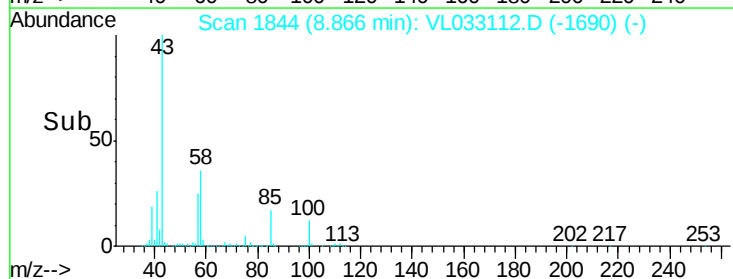
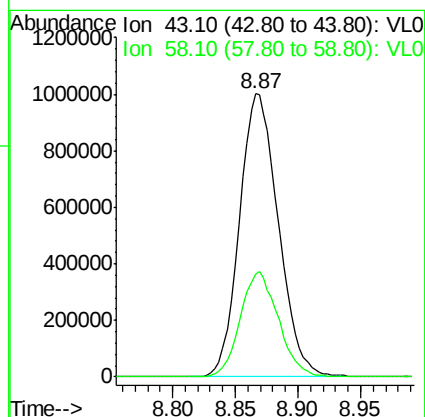
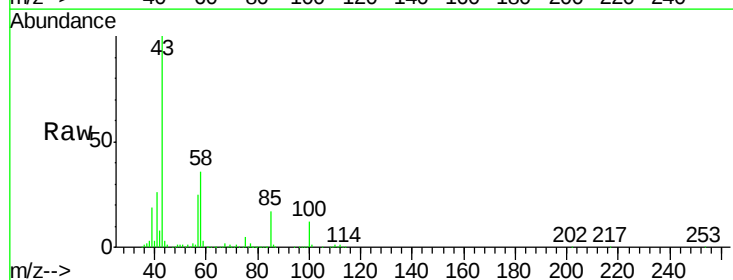
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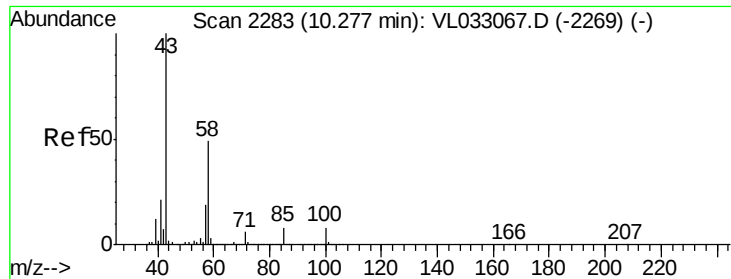
MMDadoda
1/17/2019 3:17:45 PM



#50
4-Methyl-2-Pentanone
Concen: 10.368 ppbv
RT: 8.87 min Scan# 1844
Delta R.T. -0.01 min
Lab File: VL033112.D
Acq: 17 Jan 2019 4:29

Tgt Ion: 43 Resp: 2150845
Ion Ratio Lower Upper
43 100
58 36.6 28.9 43.3





#51

2-Hexanone

Concen: 10.783 ppbv

RT: 10.27 min Scan# 2280

Delta R.T. -0.01 min

Lab File: VL033112.D

Acq: 17 Jan 2019 4:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1618561

Ion Ratio Lower Upper

43 100

58 49.5 39.0 58.6

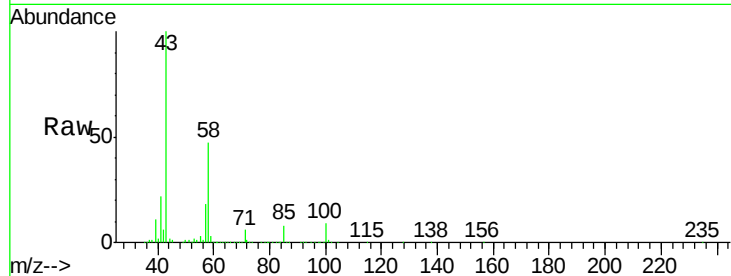
98 0.3 0.4 0.6#

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1/17/2019 3:17:45 PM

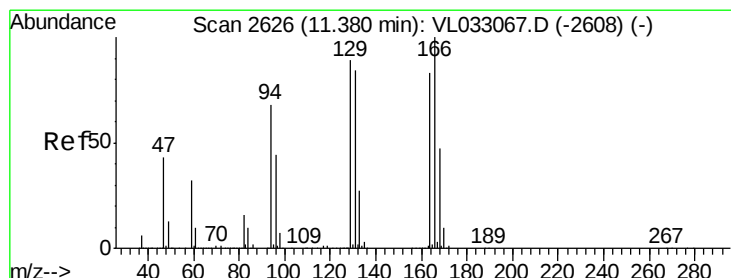
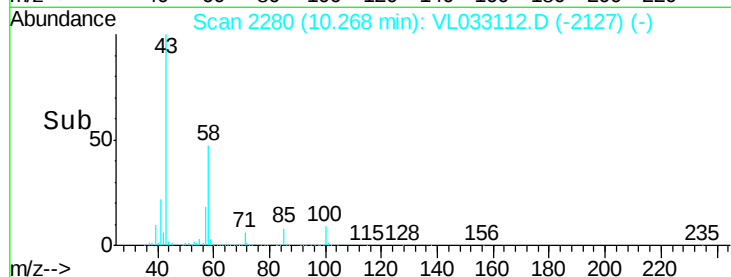
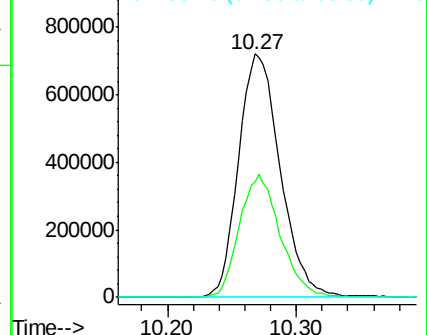


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 10.112 ppbv

RT: 11.37 min Scan# 2622

Delta R.T. -0.01 min

Lab File: VL033112.D

Acq: 17 Jan 2019 4:29

Tgt Ion: 164 Resp: 825022

Ion Ratio Lower Upper

164 100

166 119.9 100.8 151.2

129 105.1 84.6 126.8

131 97.8 80.7 121.1

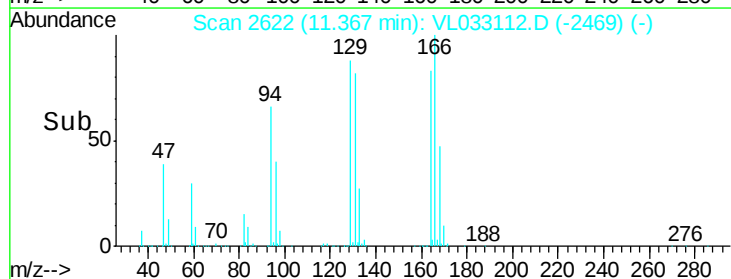
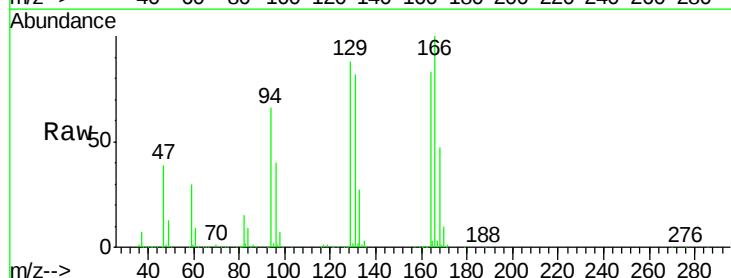
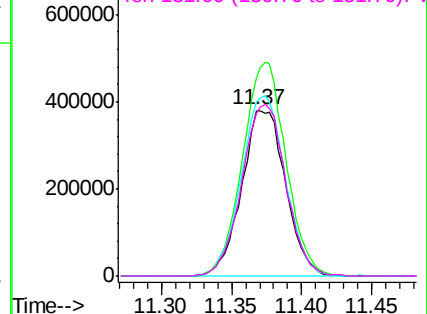
Abundance

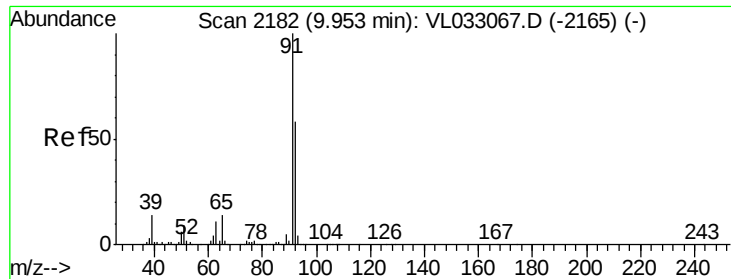
Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 10.827 ppbv

RT: 9.95 min Scan# 2180

Delta R.T. -0.01 min

Lab File: VL033112.D

Acq: 17 Jan 2019 4:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2678170

Ion Ratio Lower Upper

91 100

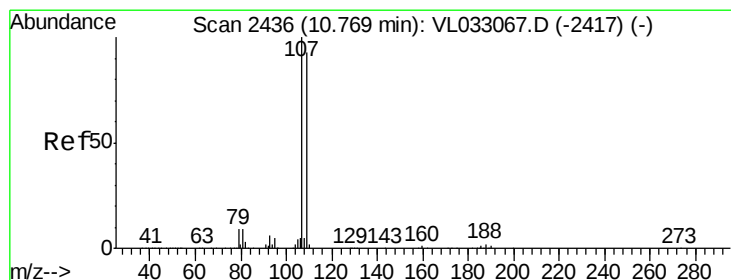
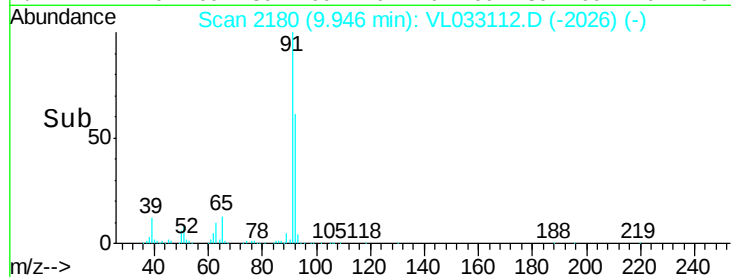
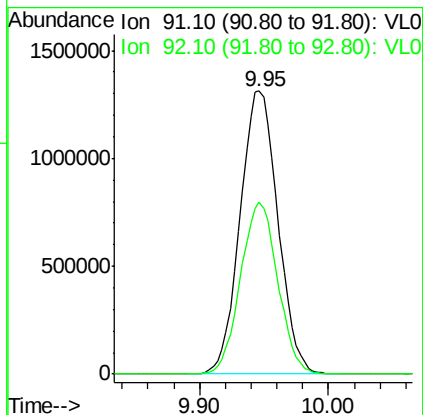
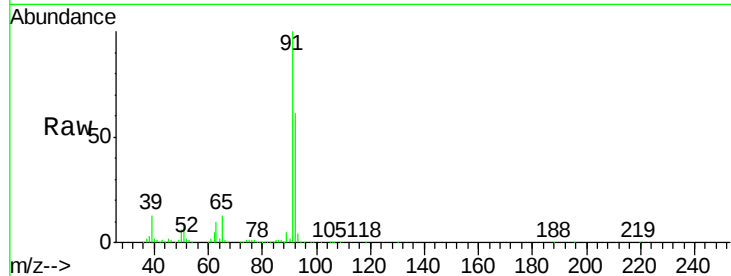
92 60.0 47.7 71.5

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#54

1,2-Dibromoethane

Concen: 9.949 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. -0.01 min

Lab File: VL033112.D

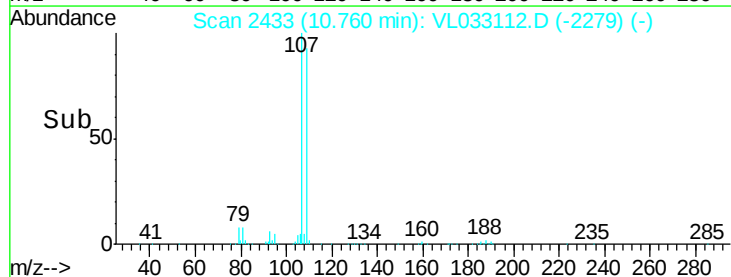
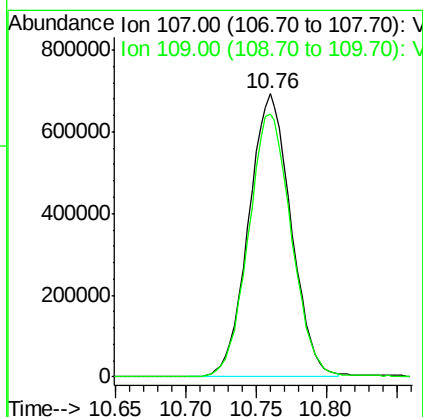
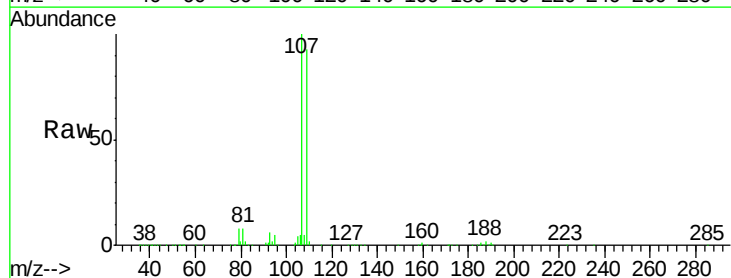
Acq: 17 Jan 2019 4:29

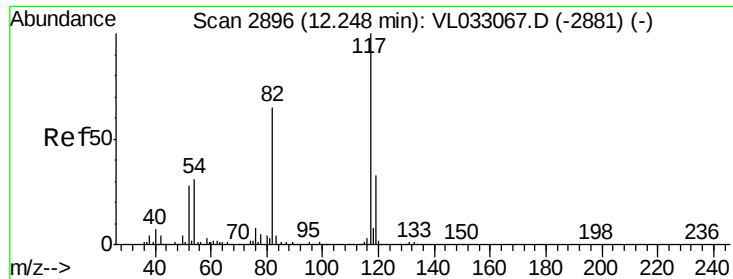
Tgt Ion: 107 Resp: 1452184

Ion Ratio Lower Upper

107 100

109 92.8 74.9 112.3





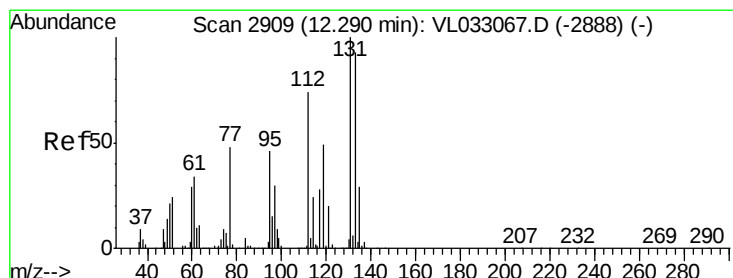
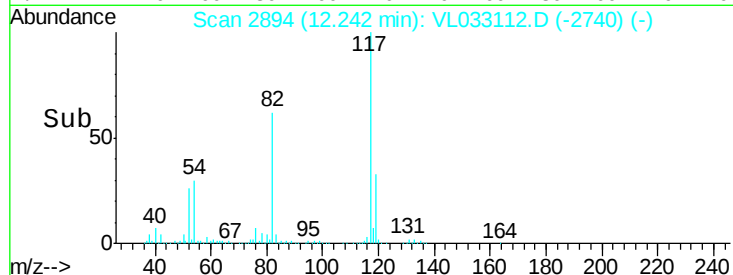
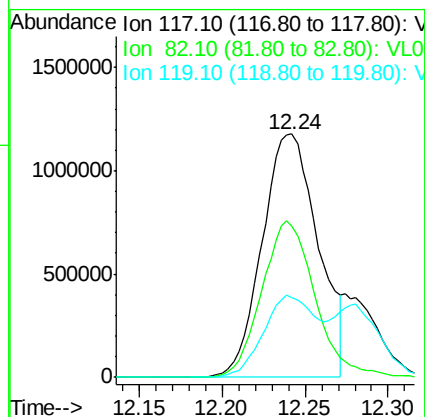
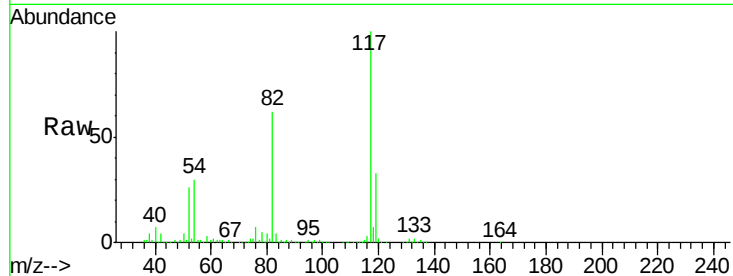
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2894
Delta R.T. -0.01 min
Lab File: VL033112.D
Acq: 17 Jan 2019 4:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:117 Resp: 2767887
Ion Ratio Lower Upper
117 100
82 61.6 48.9 73.3
119 33.3 24.6 37.0

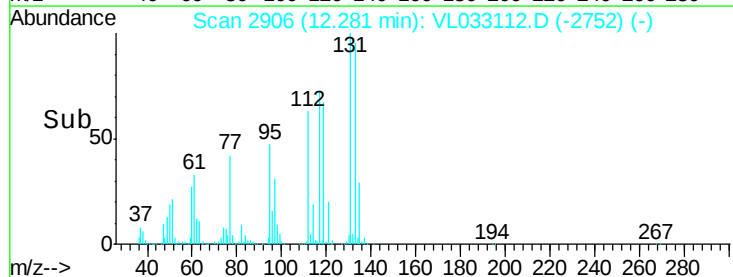
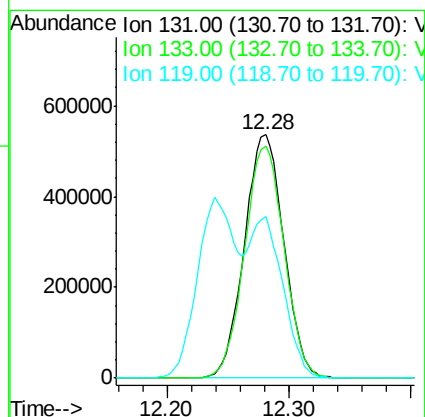
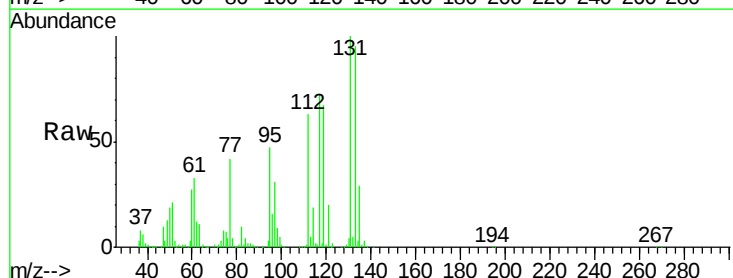
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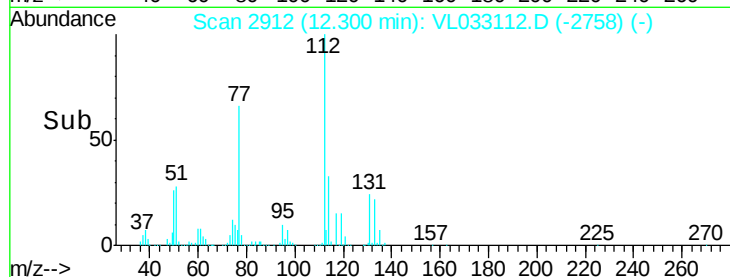
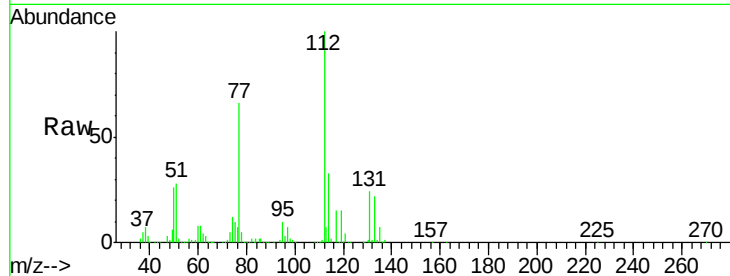
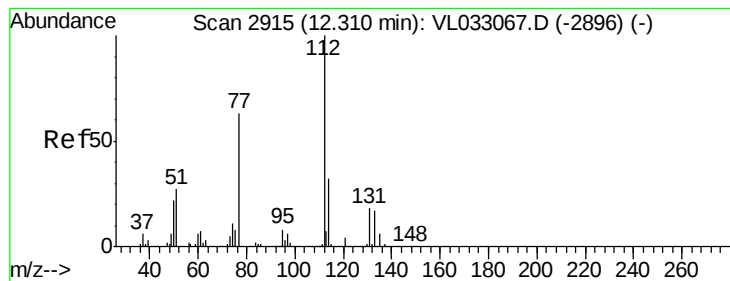
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.381 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. -0.01 min
Lab File: VL033112.D
Acq: 17 Jan 2019 4:29

Tgt Ion:131 Resp: 1198585
Ion Ratio Lower Upper
131 100
133 95.6 76.0 114.0
119 54.5 44.2 66.2





#57

Chlorobenzene

Concen: 8.706 ppbv

RT: 12.30 min Scan# 2912

Delta R.T. -0.01 min

Lab File: VL033112.D

Acq: 17 Jan 2019 4:29

Tot Ion: 112 Resp: 2011303

Ion Ratio Lower Upper

112 100

77 65.9 53.4 80.0

114 32.6 30.0 36.6

Instrument :

MSVOA_L

ClientSampleId :

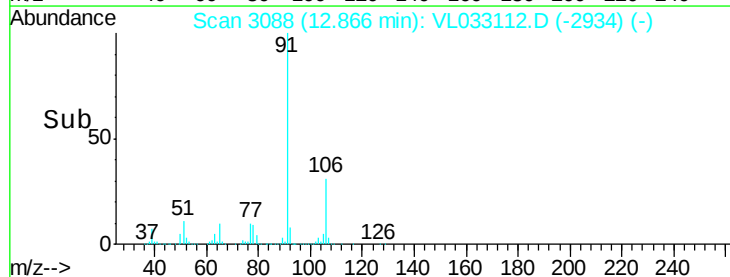
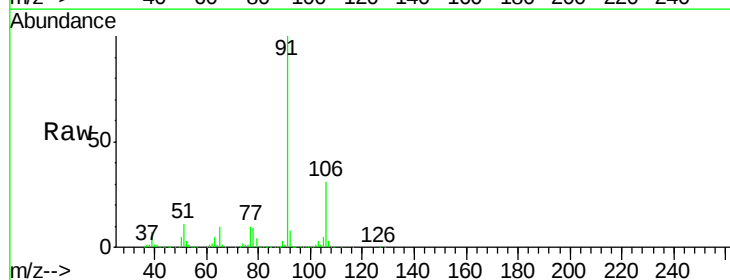
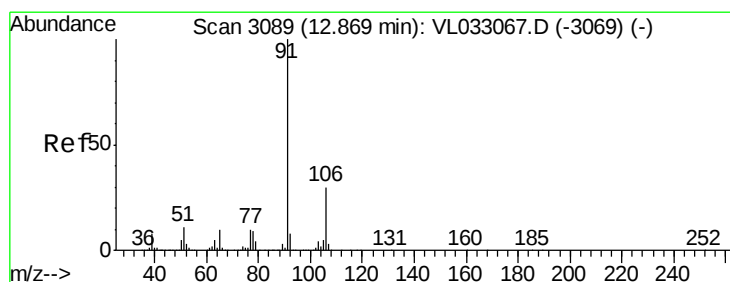
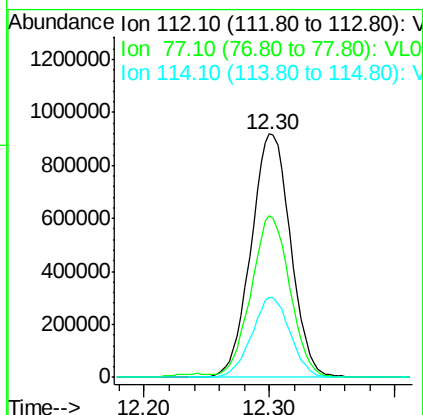
VSTDCCC010EC

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1/17/2019 3:17:45 PM



#58

Ethyl Benzene

Concen: 10.073 ppbv

RT: 12.87 min Scan# 3088

Delta R.T. -0.01 min

Lab File: VL033112.D

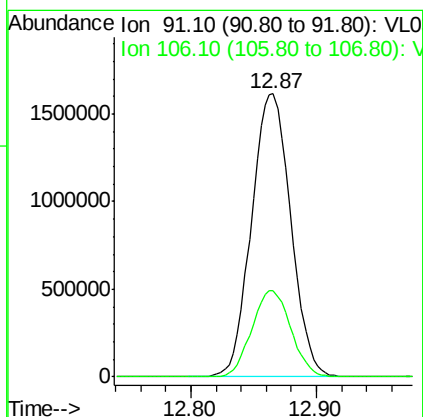
Acq: 17 Jan 2019 4:29

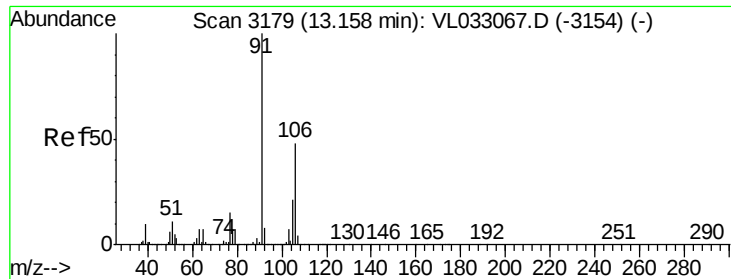
Tgt Ion: 91 Resp: 3520034

Ion Ratio Lower Upper

91 100

106 30.6 24.3 36.5





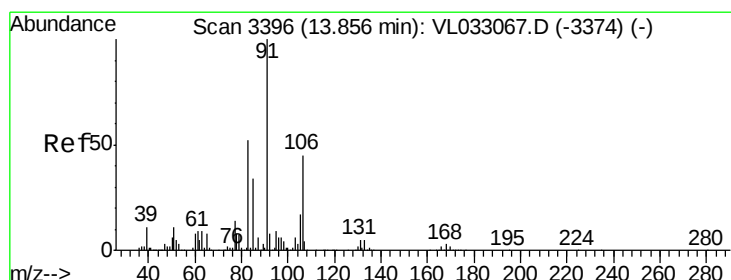
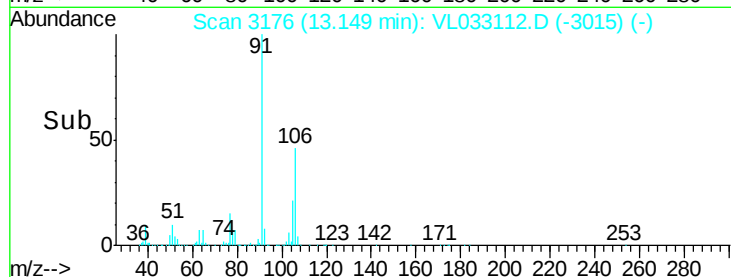
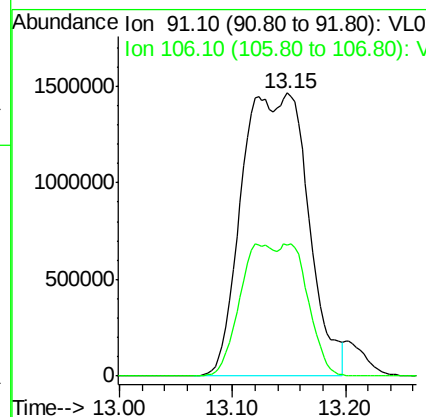
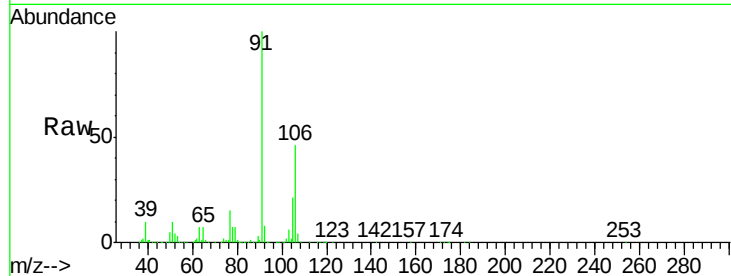
#59
m/p-Xylene
Concen: 18.440 ppbv m
RT: 13.15 min Scan# 3176
Delta R.T. 0.02 min
Lab File: VL033112.D
Acq: 17 Jan 2019 4:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 5961237
Ion Ratio Lower Upper
91 100
106 45.8 0.0 0.0#

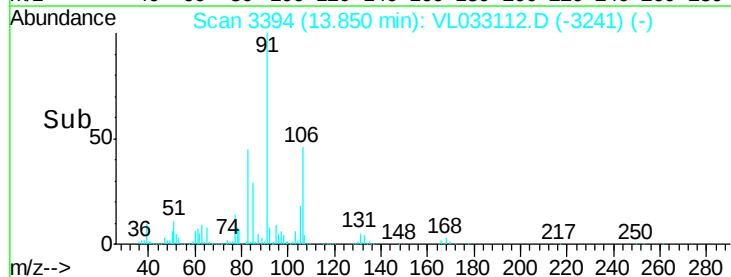
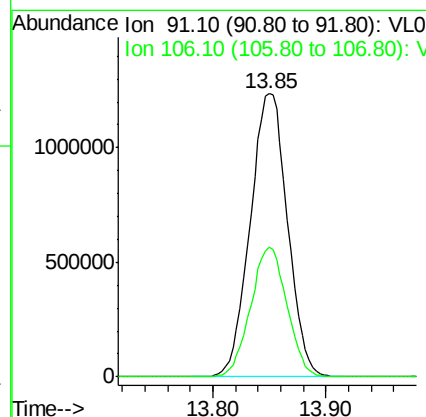
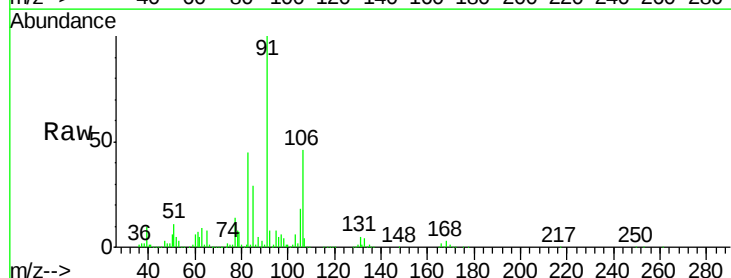
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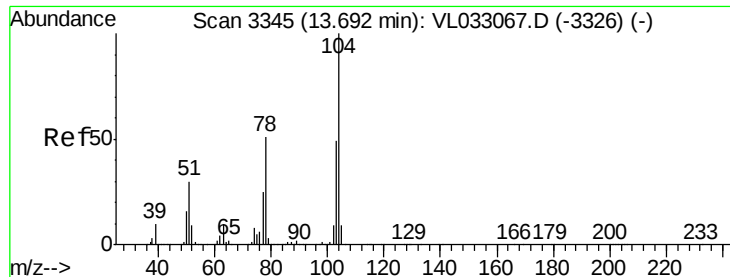
MMDadoda
1/17/2019 3:17:45 PM



#60
o-Xylene
Concen: 8.944 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. -0.01 min
Lab File: VL033112.D
Acq: 17 Jan 2019 4:29

Tgt Ion: 91 Resp: 2830580
Ion Ratio Lower Upper
91 100
106 44.7 22.1 66.5





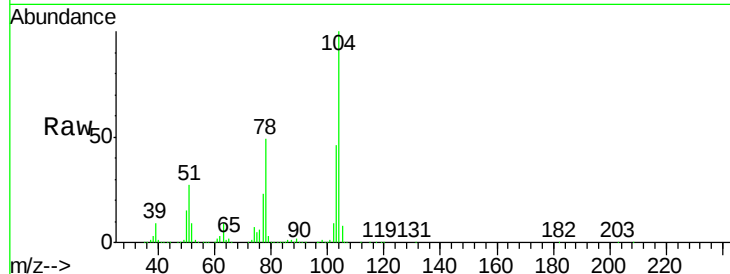
#61
Stvrene
Concen: 10.488 ppbv
RT: 13.69 min Scan# 3343
Delta R.T. -0.01 min
Lab File: VL033112.D
Acq: 17 Jan 2019 4:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

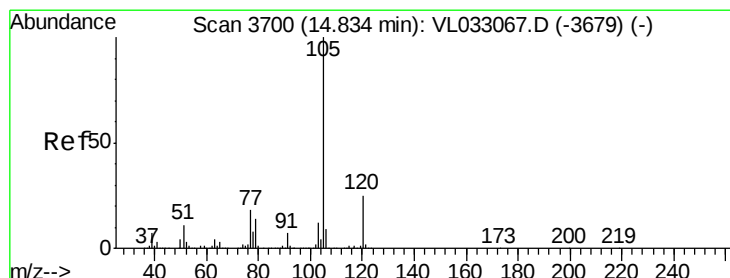
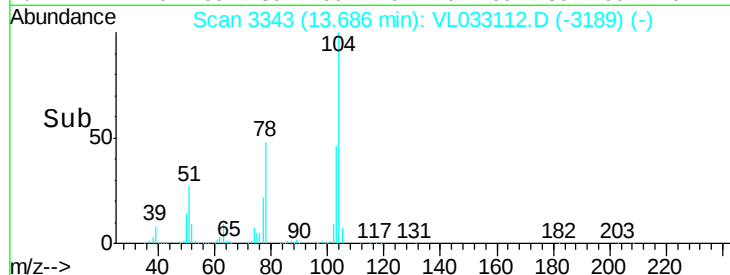
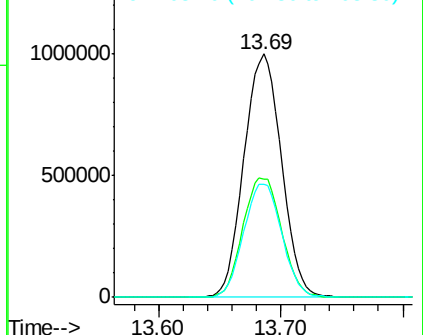
Tot Ion	Ratio	Lower	Upper
104	100		
78	51.0	41.6	62.4
103	47.4	38.1	57.1

Manual Integrations
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MMDadoda
1/17/2019 3:17:45 PM

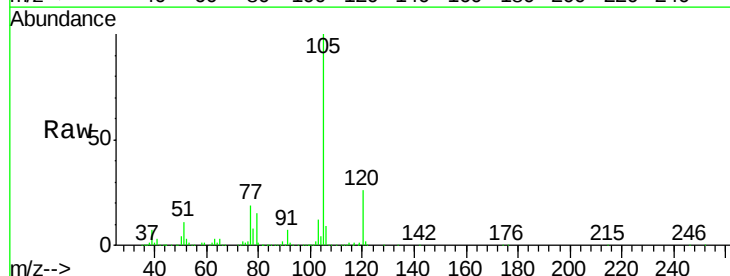


Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VL0
Ion 103.10 (102.80 to 103.80): V

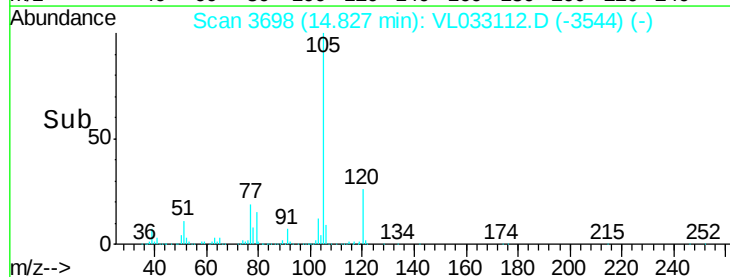
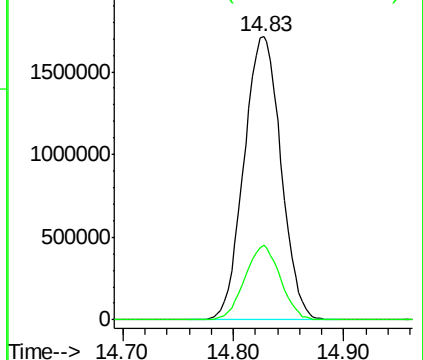


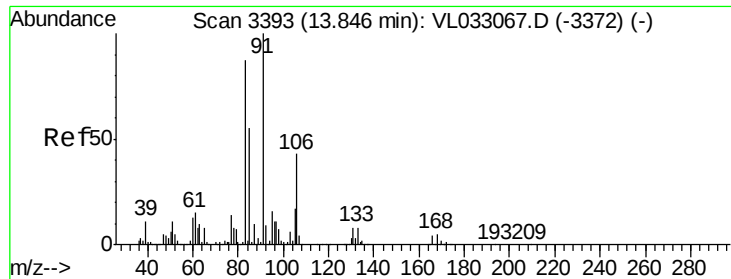
#62
Isopropylbenzene
Concen: 8.845 ppbv
RT: 14.83 min Scan# 3698
Delta R.T. -0.01 min
Lab File: VL033112.D
Acq: 17 Jan 2019 4:29

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.3	20.4	30.6



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V





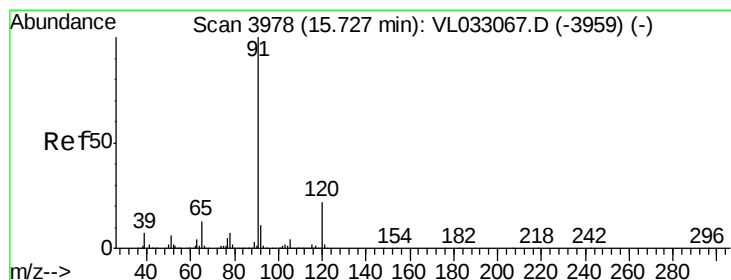
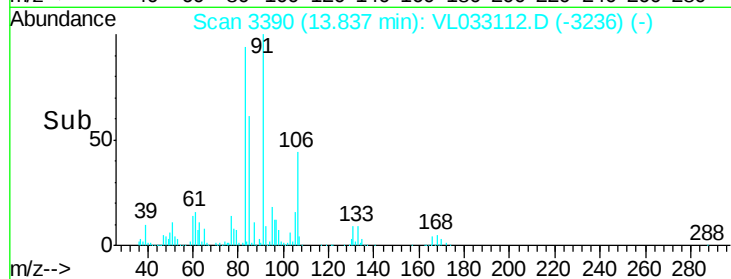
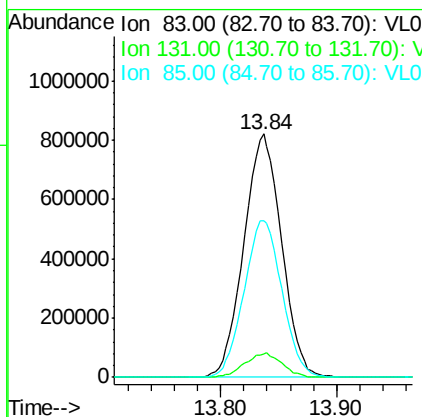
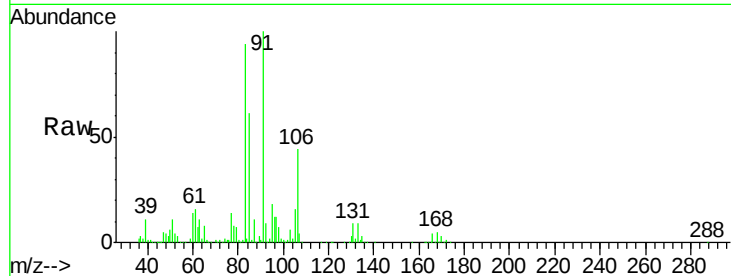
#63
 1,1,2,2-Tetrachloroethane
 Concen: 7.923 ppbv
 RT: 13.84 min Scan# 3390
 Delta R.T. -0.01 min
 Lab File: VL033112.D
 Acq: 17 Jan 2019 4:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 83 Resp: 1862734
 Ion Ratio Lower Upper
 83 100
 131 9.9 4.8 14.4
 85 65.2 32.6 97.8

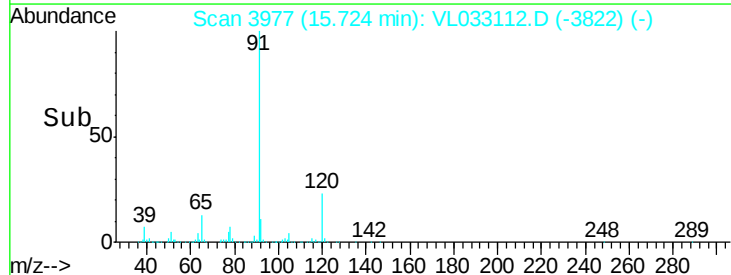
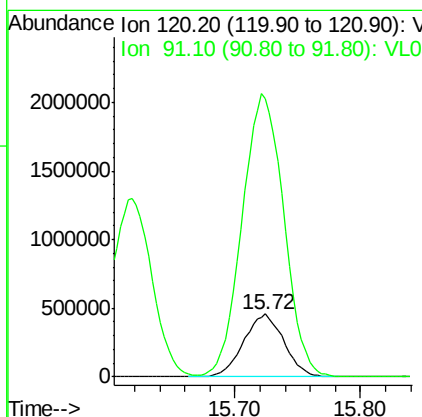
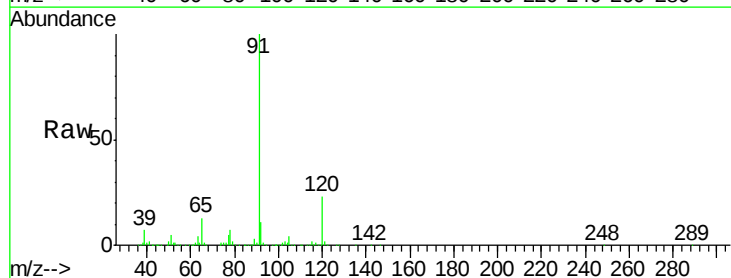
Manual Integrations
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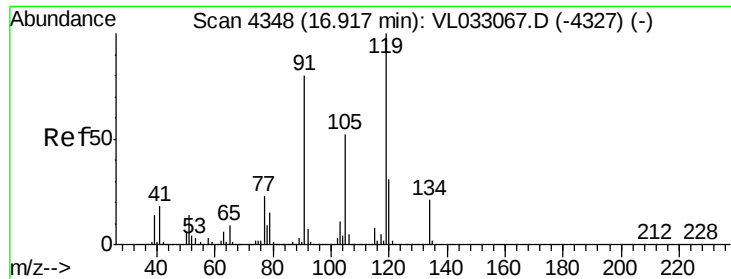
MMDadoda
 1/17/2019 3:17:45 PM



#64
 n-propylbenzene
 Concen: 8.869 ppbv
 RT: 15.72 min Scan# 3977
 Delta R.T. -0.00 min
 Lab File: VL033112.D
 Acq: 17 Jan 2019 4:29

Tgt Ion:120 Resp: 1014819
 Ion Ratio Lower Upper
 120 100
 91 468.5 378.7 568.1





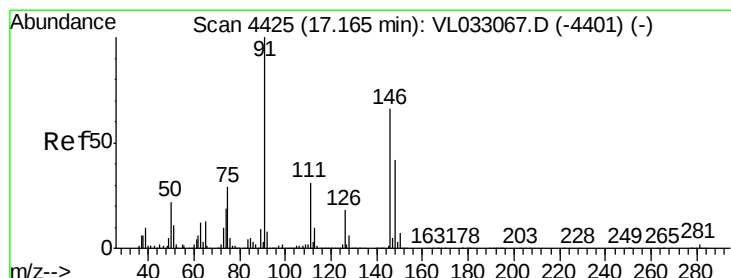
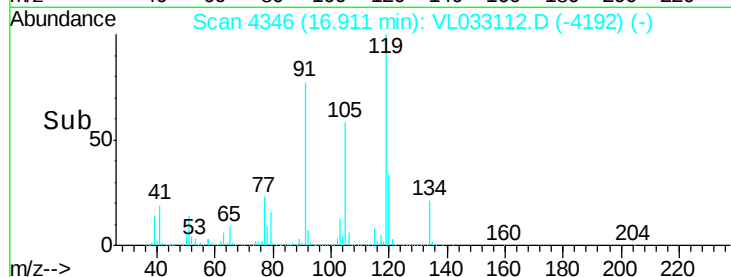
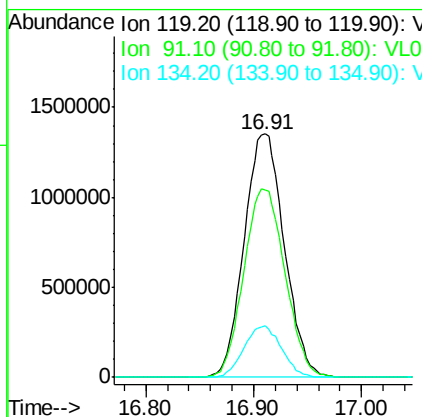
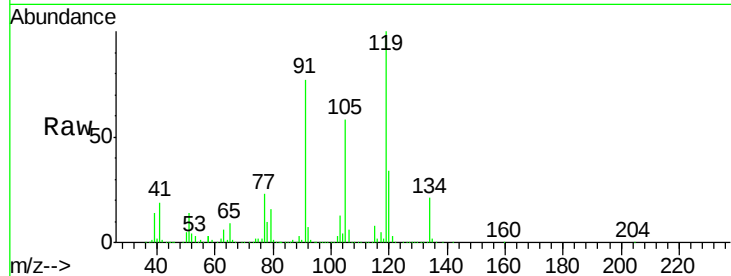
#65
tert-Butylbenzene
Concen: 8.768 ppbv
RT: 16.91 min Scan# 4346
Delta R.T. -0.01 min
Lab File: VL033112.D
Acq: 17 Jan 2019 4:29

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
91	79.6	64.6	97.0
134	19.8	15.8	23.8

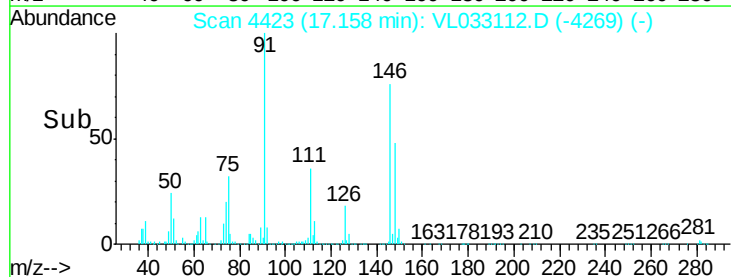
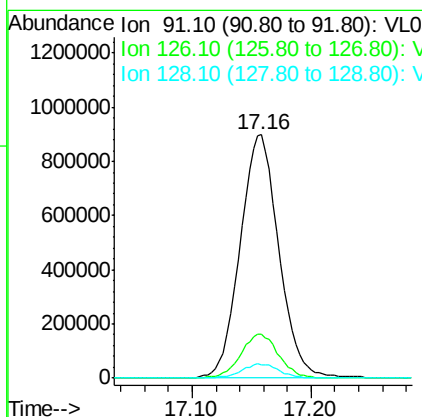
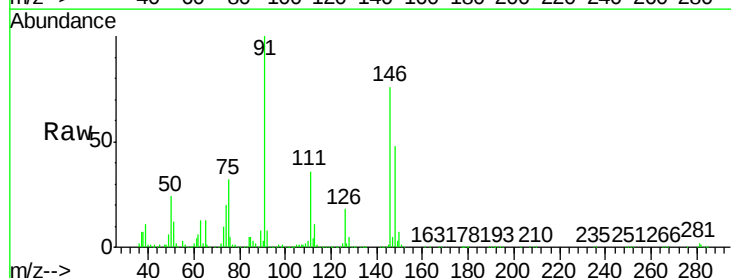
Manual Integrations
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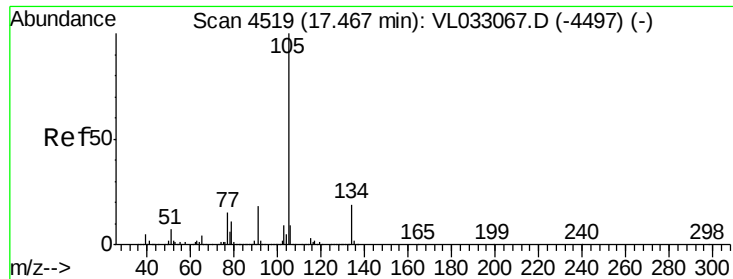
MMDadoda
1/17/2019 3:17:45 PM



#66
Benzyl Chloride
Concen: 8.851 ppbv
RT: 17.16 min Scan# 4423
Delta R.T. -0.01 min
Lab File: VL033112.D
Acq: 17 Jan 2019 4:29

Tgt Ion	Ratio	Lower	Upper
91	100		
126	17.9	14.4	21.6
128	5.7	4.5	6.7





#67

sec-Butylbenzene

Concen: 8.675 ppbv

RT: 17.46 min Scan# 4516

Delta R.T. -0.01 min

Lab File: VL033112.D

Acq: 17 Jan 2019 4:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 4952625

Ion Ratio Lower Upper

105 100

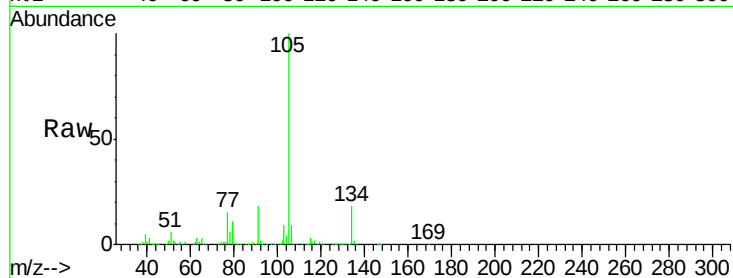
134 18.0 14.6 21.8

Manual Integrations

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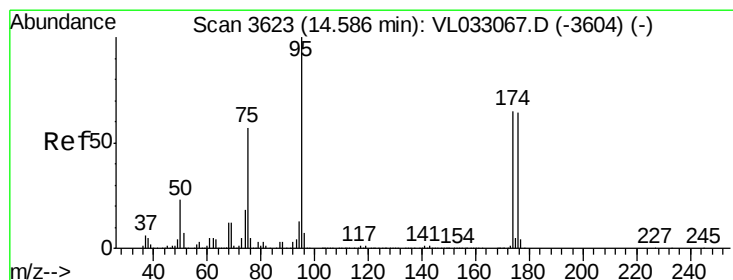
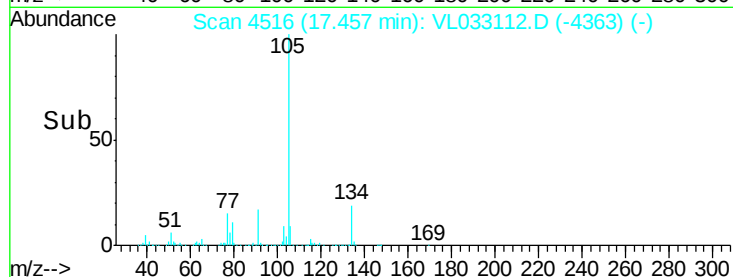
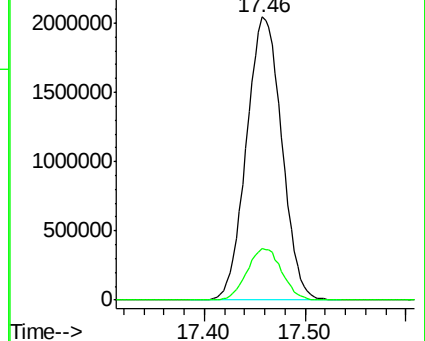
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.369 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.01 min

Lab File: VL033112.D

Acq: 17 Jan 2019 4:29

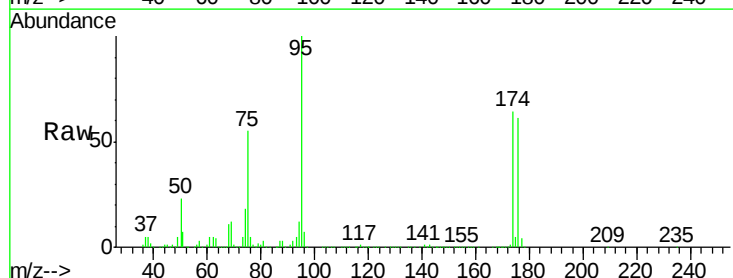
Tgt Ion: 95 Resp: 1987756

Ion Ratio Lower Upper

95 100

174 65.2 51.9 77.9

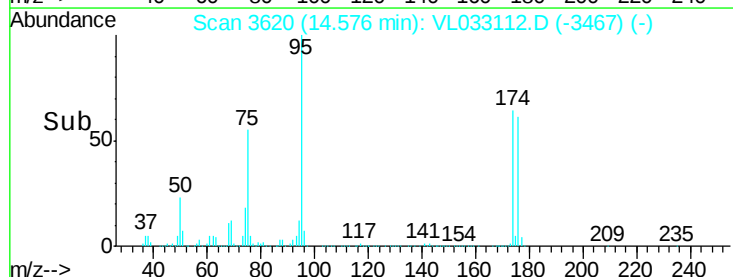
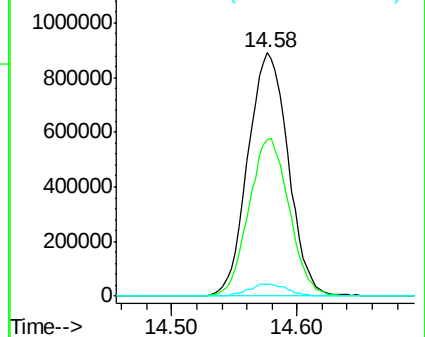
175 4.9 3.9 5.9

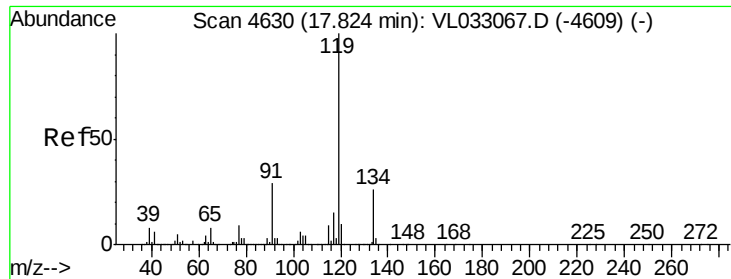


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





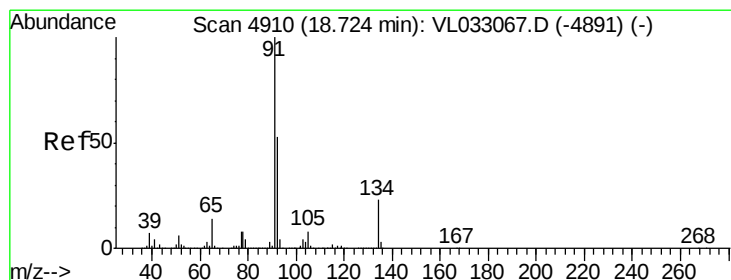
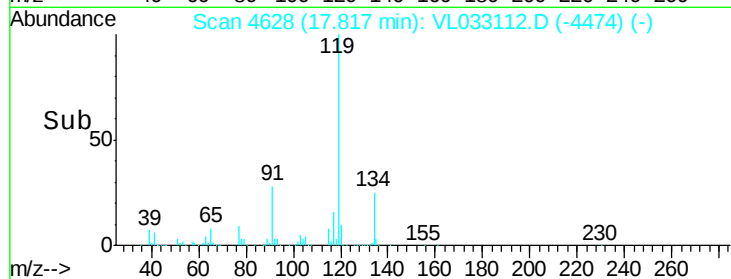
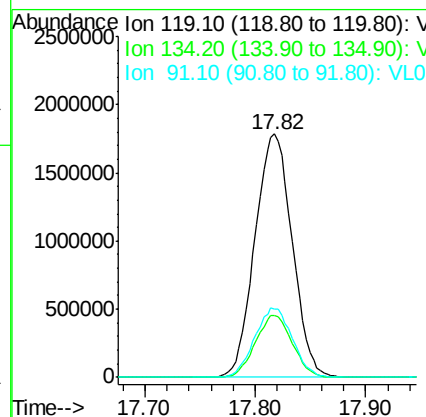
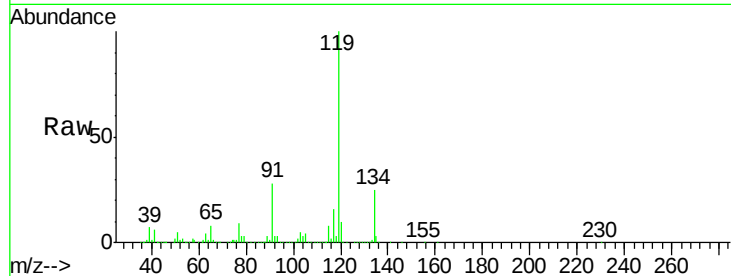
#69
 p-Isopropyltoluene
 Concen: 9.021 ppbv
 RT: 17.82 min Scan# 4628
 Delta R.T. -0.01 min
 Lab File: VL033112.D
 Acq: 17 Jan 2019 4:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.2	20.1	30.1
91	28.7	23.0	34.4

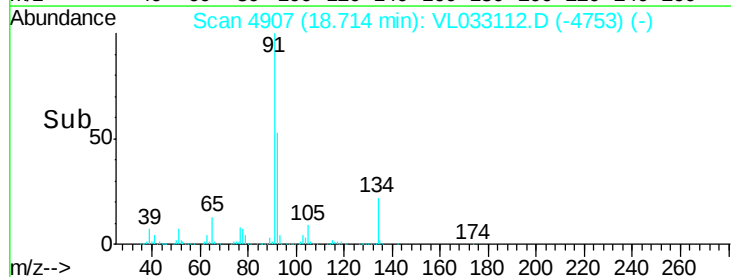
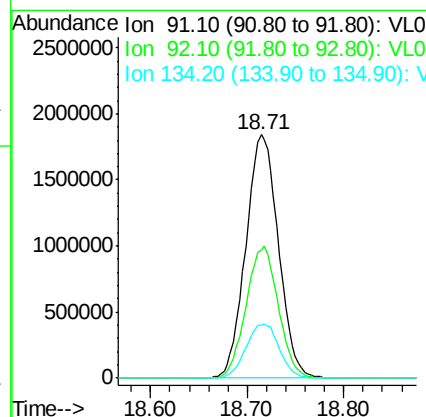
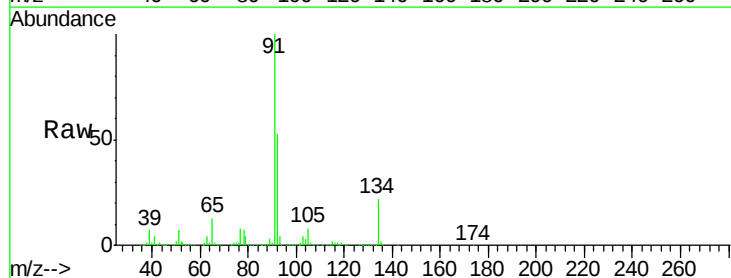
Manual Integrations
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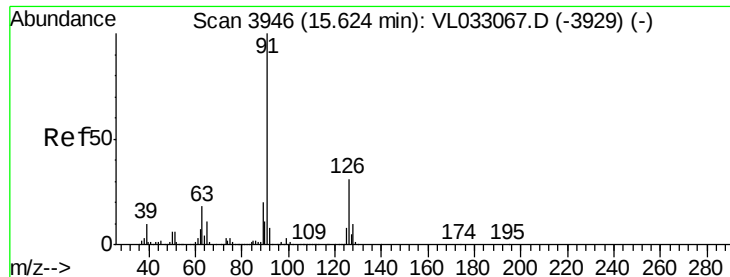
MMDadoda
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#70
 n-Butylbenzene
 Concen: 9.228 ppbv
 RT: 18.71 min Scan# 4907
 Delta R.T. -0.01 min
 Lab File: VL033112.D
 Acq: 17 Jan 2019 4:29

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.6	42.4	63.6
134	22.8	18.0	27.0





#71

2-Chlorotoluene

Concen: 9.178 ppbv

RT: 15.62 min Scan# 3944

Delta R.T. -0.01 min

Lab File: VL033112.D

Acq: 17 Jan 2019 4:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2931504

Ion Ratio Lower Upper

91 100

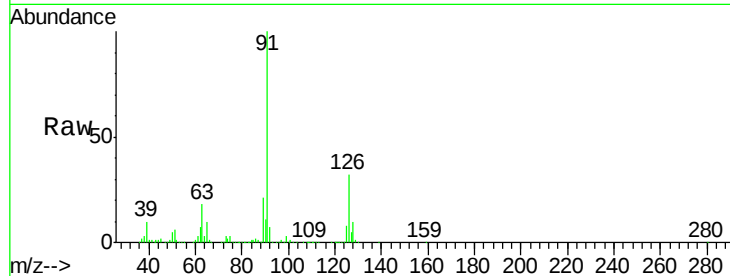
126 31.3 12.4 49.6

Manual Integrations

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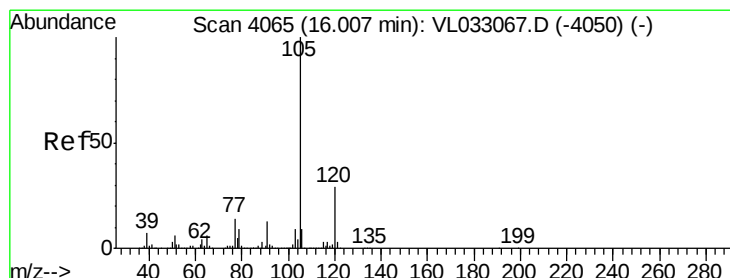
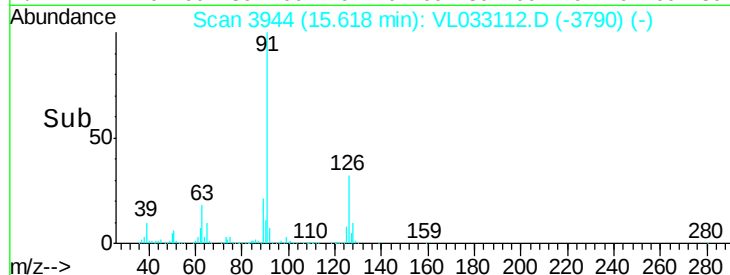
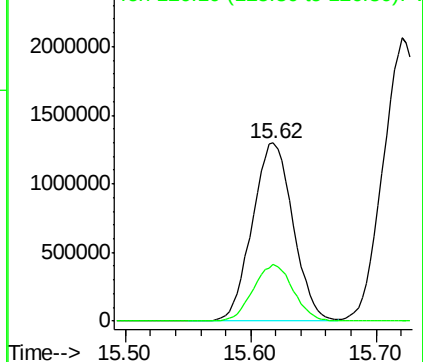
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1/17/2019 3:17:45 PM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 9.276 ppbv

RT: 16.00 min Scan# 4063

Delta R.T. -0.01 min

Lab File: VL033112.D

Acq: 17 Jan 2019 4:29

Tgt Ion:105 Resp: 3226284

Ion Ratio Lower Upper

105 100

120 28.6 23.0 34.6

91 12.9 10.3 15.5

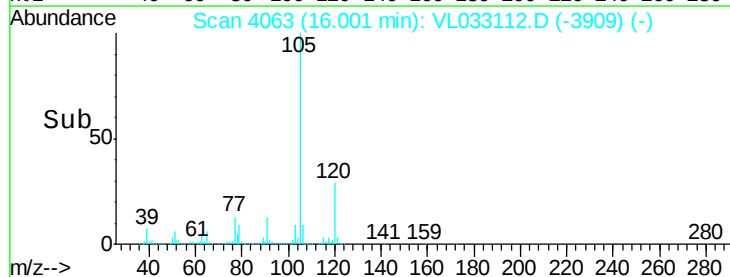
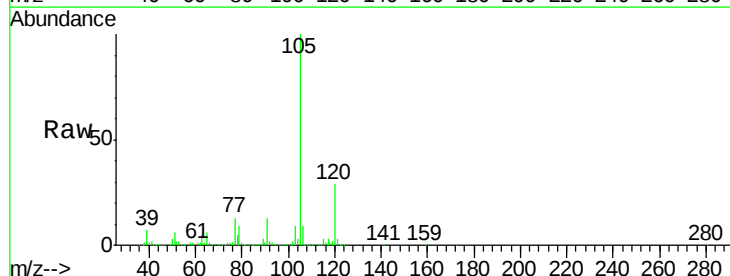
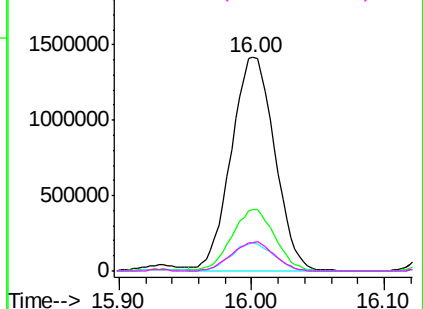
77 13.6 11.1 16.7

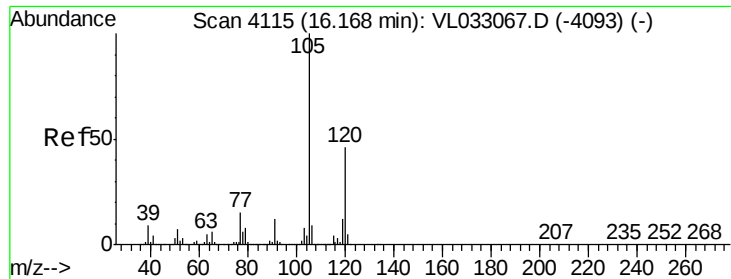
Abundance Ion 105.10 (104.80 to 105.80): V

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: 8.963 ppbv

RT: 16.16 min Scan# 4112

Delta R.T. -0.01 min

Lab File: VL033112.D

Acq: 17 Jan 2019 4:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 3075719

Ion Ratio Lower Upper

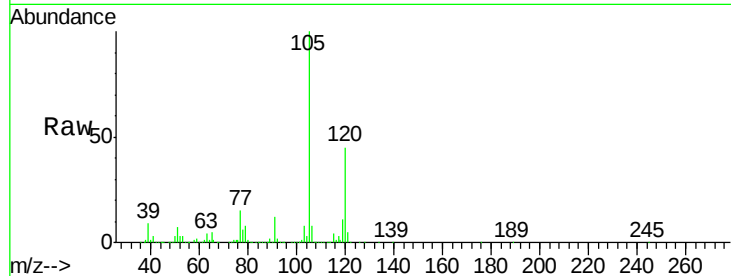
105 100

120 44.9 36.1 54.1

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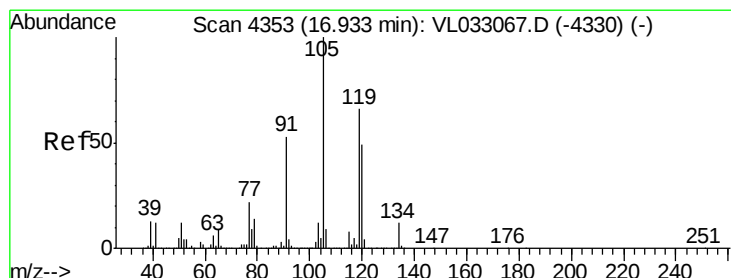
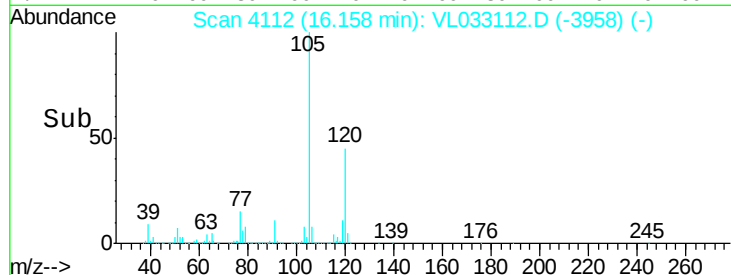
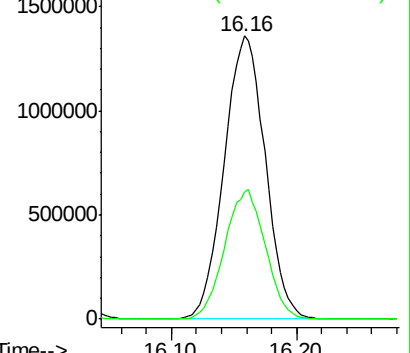
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1/17/2019 3:17:45 PM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 8.403 ppbv

RT: 16.93 min Scan# 4352

Delta R.T. -0.01 min

Lab File: VL033112.D

Acq: 17 Jan 2019 4:29

Tgt Ion:105 Resp: 3193799

Ion Ratio Lower Upper

105 100

120 46.6 37.0 55.4

91 40.0 35.4 53.0

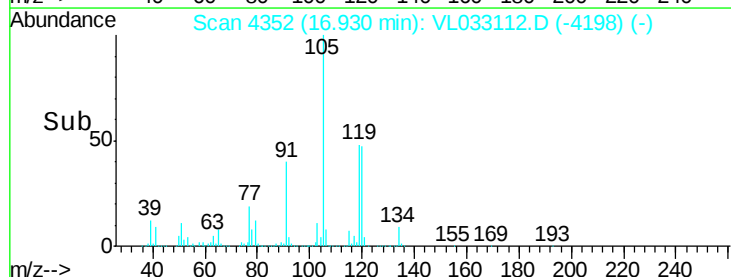
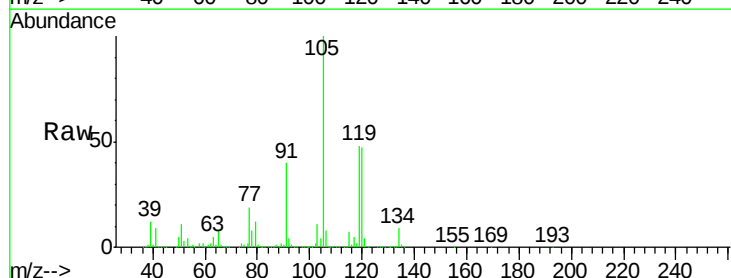
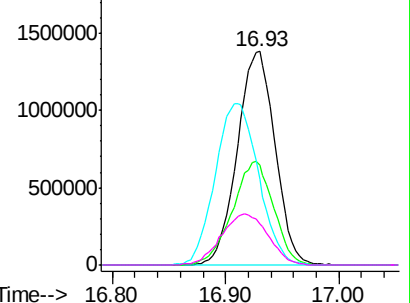
77 19.1 17.1 25.7

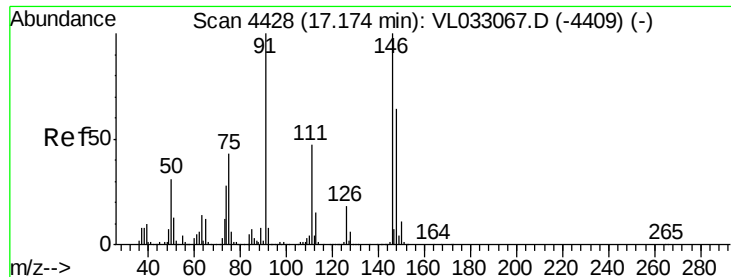
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 8.274 ppbv

RT: 17.17 min Scan# 4426

Delta R.T. -0.01 min

Lab File: VL033112.D

Acq: 17 Jan 2019 4:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 1851096

Ion Ratio Lower Upper

146 100

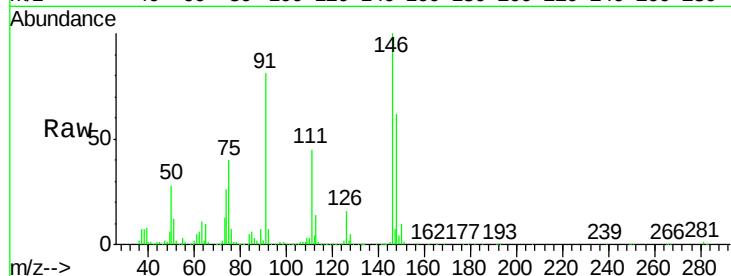
111 47.0 23.4 70.2

148 63.7 32.1 96.3

Manual Integrations
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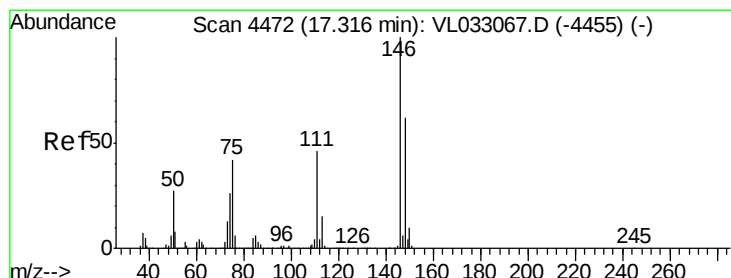
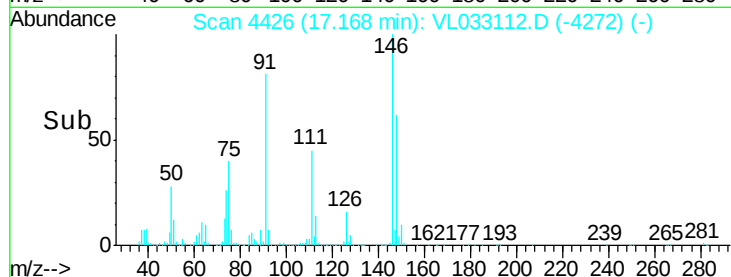
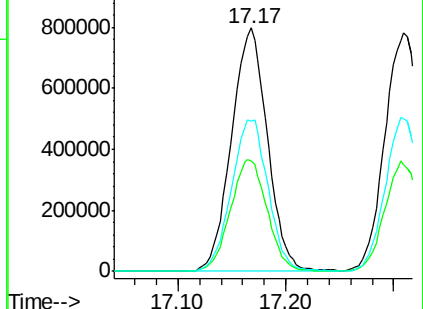
1/17/2019 3:17:45 PM



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: 8.876 ppbv

RT: 17.31 min Scan# 4470

Delta R.T. -0.01 min

Lab File: VL033112.D

Acq: 17 Jan 2019 4:29

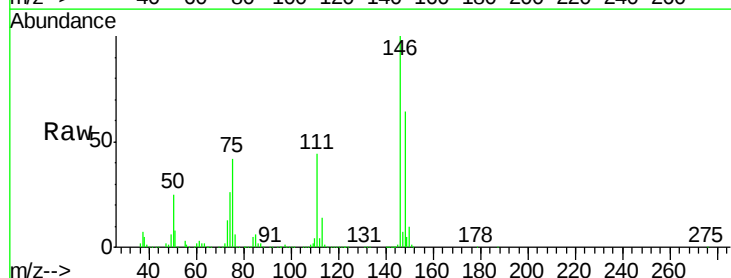
Tgt Ion:146 Resp: 1808797

Ion Ratio Lower Upper

146 100

111 45.8 22.7 68.1

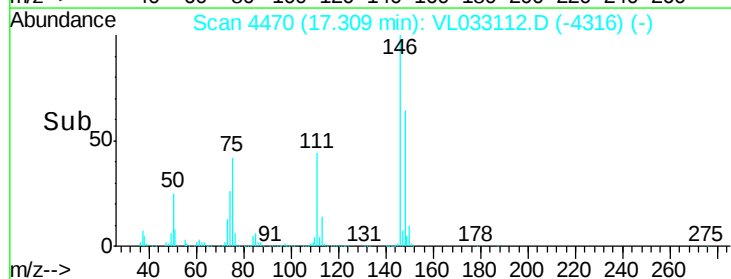
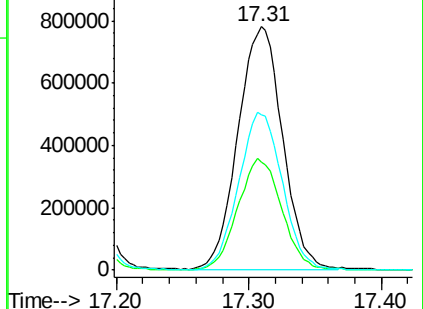
148 64.4 32.4 97.2

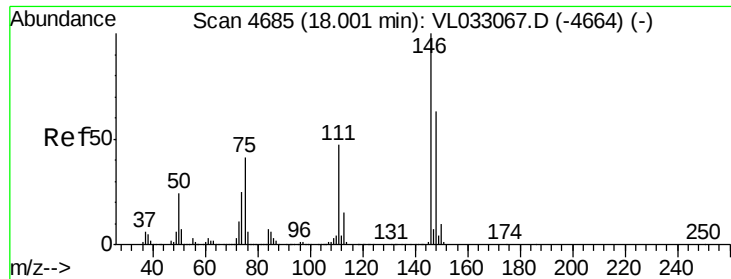


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





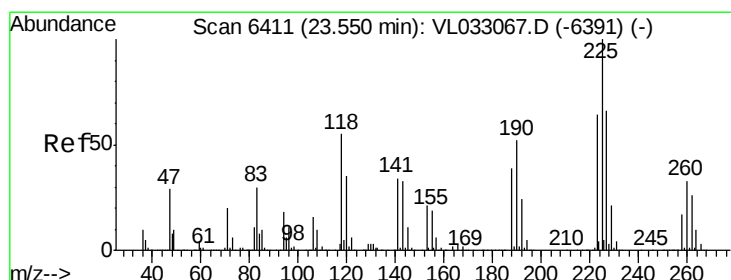
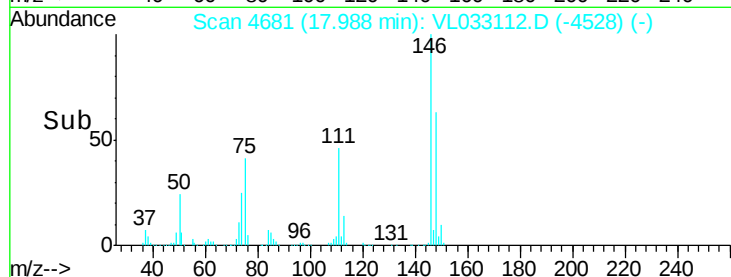
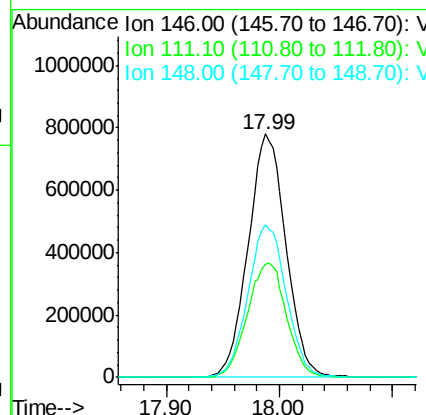
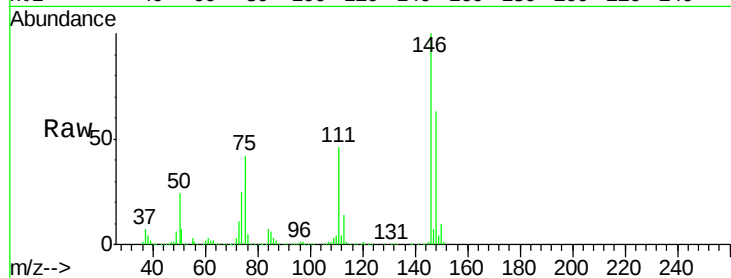
#77
 1,2-Dichlorobenzene
 Concen: 8.983 ppbv
 RT: 17.99 min Scan# 4681
 Delta R.T. -0.01 min
 Lab File: VL033112.D
 Acq: 17 Jan 2019 4:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 1809863
 Ion Ratio Lower Upper
 146 100
 111 48.7 24.4 73.2
 148 64.0 32.3 96.9

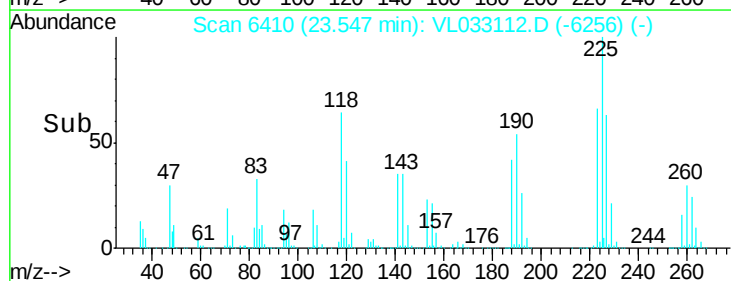
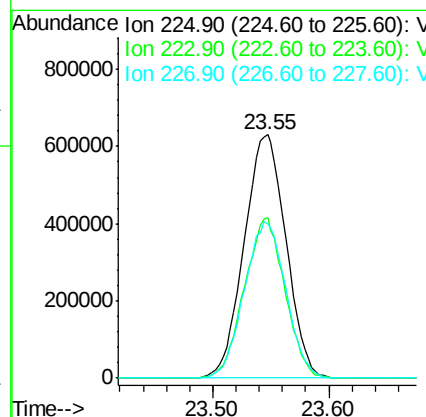
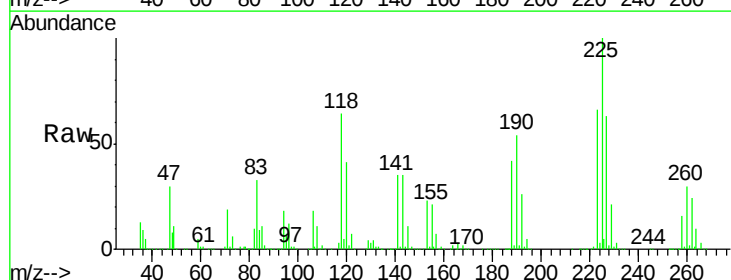
Manual Integrations
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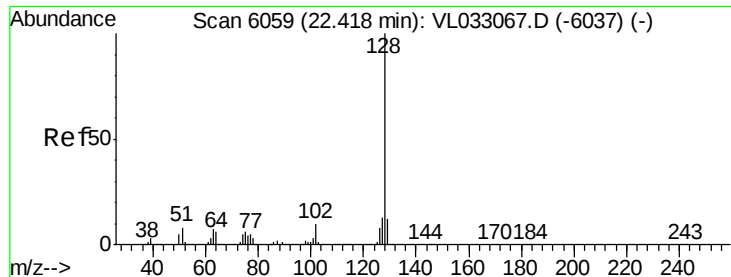
MMDadoda
 1/17/2019 3:17:45 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 10.209 ppbv
 RT: 23.55 min Scan# 6410
 Delta R.T. -0.01 min
 Lab File: VL033112.D
 Acq: 17 Jan 2019 4:29

Tgt Ion:225 Resp: 1579733
 Ion Ratio Lower Upper
 225 100
 223 63.9 51.0 76.6
 227 63.9 51.0 76.4





#79

Naphthalene

Concen: 11.846 ppbv

RT: 22.41 min Scan# 6057

Delta R.T. -0.01 min

Lab File: VL033112.D

Acq: 17 Jan 2019 4:29

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:128 Resp: 3792310

Ion Ratio Lower Upper

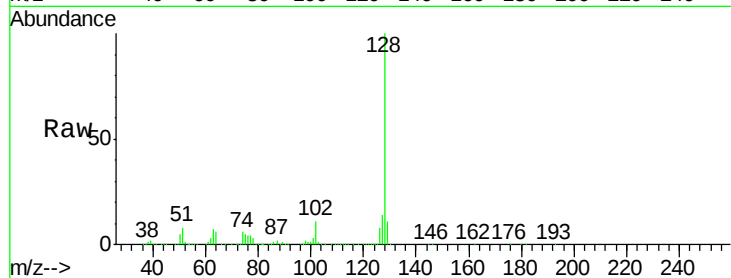
128 100

127 13.8 11.0 16.6

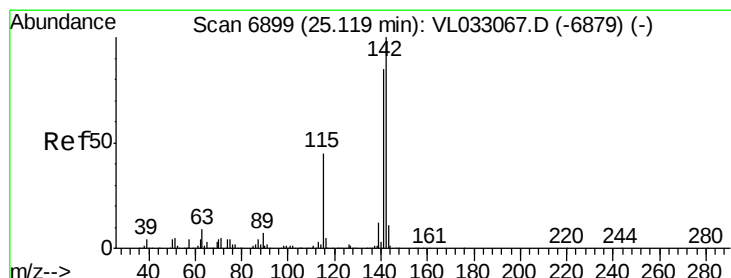
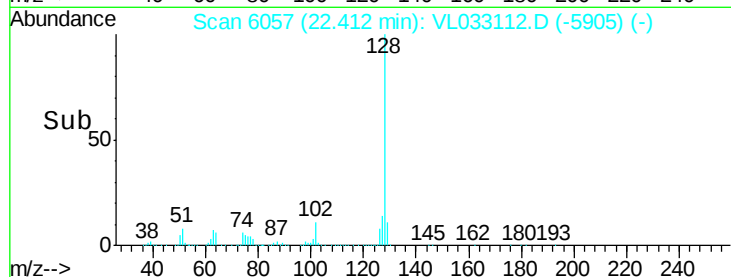
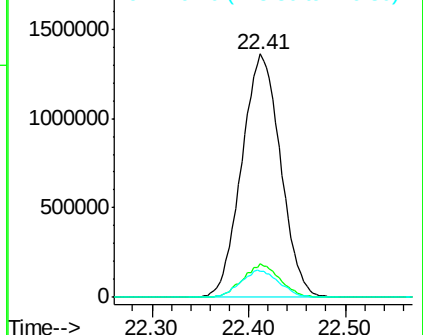
129 10.8 9.4 14.0

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Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 9.672 ppbv

RT: 25.11 min Scan# 6897

Delta R.T. -0.01 min

Lab File: VL033112.D

Acq: 17 Jan 2019 4:29

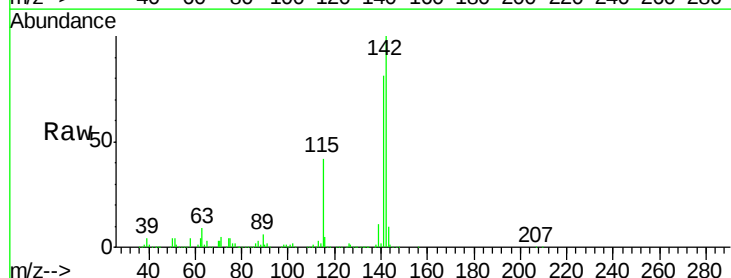
Tgt Ion:142 Resp: 939670

Ion Ratio Lower Upper

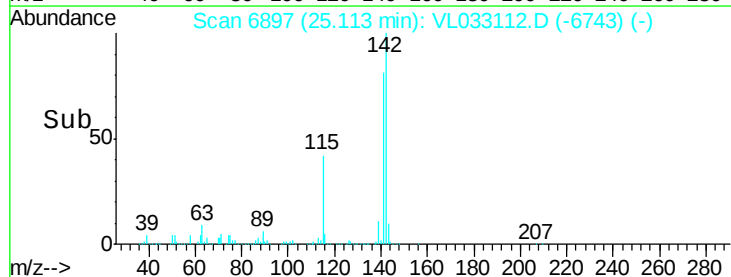
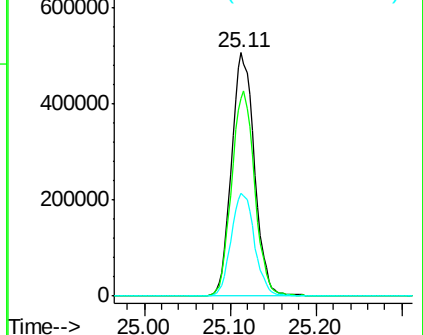
142 100

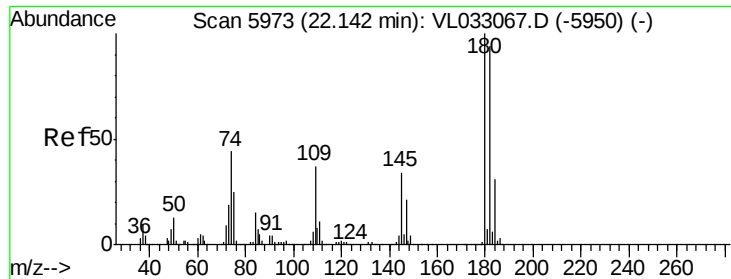
141 84.6 68.6 103.0

115 43.2 35.6 53.4



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 11.354 ppbv
 RT: 22.14 min Scan# 5972
 Delta R.T. -0.01 min
 Lab File: VL033112.D
 Acq: 17 Jan 2019 4:29

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.8	76.1	114.1
184	30.2	24.6	37.0

Manual Integrations
 APPROVED

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 1/17/2019 3:17:45 PM

