

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032119\
 Data File : VL033421.D
 Acq On : 21 Mar 2019 17:39
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 8:28:10 AM

Quant Time: Mar 22 09:01:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 1
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	806429	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1921275	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1998288m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1507221	10.18	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	1088422	7.675	ppbv 98
3) Chlorodifluoromethane	3.01	51	954183	10.309	ppbv 100
4) Chloromethane	3.17	50	516076	10.297	ppbv 98
5) Vinyl Chloride	3.29	62	497522	9.622	ppbv 98
6) Bromomethane	3.51	94	317135	10.318	ppbv 97
7) Chloroethane	3.60	64	182447	10.098	ppbv 97
8) Dichlorotetrafluoroethane	3.22	85	1240221	10.273	ppbv 98
9) Propene	3.03	41	417823	10.112	ppbv 99
10) Heptane	8.25	43	1105181	10.784	ppbv 99
11) Trichlorofluoromethane	4.00	101	1390170	9.844	ppbv 96
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1183004	12.626	ppbv 97
13) Ethanol	3.64	45	94020	4.773	ppbv 98
14) Bromoethene	3.79	108	405032	10.372	ppbv 99
15) Acetone	3.90	43	883689	7.049	ppbv 98
16) 1,3-Butadiene	3.36	39	390714	9.596	ppbv 95
17) tert-Butyl alcohol	4.35	59	178488	10.118	ppbv 99
18) 1,1-Dichloroethene	4.35	96	422865	9.871	ppbv 99
19) Isopropyl Alcohol	4.02	45	622472	10.439	ppbv 100
20) Methylene Chloride	4.41	84	347037	8.488	ppbv 95
21) Allyl Chloride	4.48	41	637424	10.482	ppbv 99
22) trans-1,2-Dichloroethene	4.96	96	692599	16.682	ppbv 98
23) Vinyl Acetate	5.15	43	1547529	10.669	ppbv 99
24) 1,1-Dichloroethane	5.09	63	1094761	10.451	ppbv 99
25) Ethyl Acetate	5.77	43	1864832	10.234	ppbv 100
26) Hexane	5.78	57	817436	10.034	ppbv 99
27) Carbon Disulfide	4.62	76	1647139	17.563	ppbv 99
28) Methyl tert-Butyl Ether	5.11	73	1321541	10.921	ppbv 100
29) Chloroform	5.85	83	1401323	10.505	ppbv 99
30) Cyclohexane	7.25	84	713149	10.918	ppbv 96
31) cis-1,2-Dichloroethene	5.64	61	878648	10.787	ppbv 98
32) 1,1,1-Trichloroethane	6.62	97	1392771	10.634	ppbv 99
34) 2-Butanone	5.33	43	1205550	9.554	ppbv 100
35) Carbon Tetrachloride	7.13	117	1457461	10.760	ppbv 97
36) Benzene	7.00	78	1757742	10.223	ppbv 99
37) 1,2-Dichloroethane	6.41	62	1083842	9.969	ppbv 100
38) Trichloroethene	7.96	130	679671	10.446	ppbv 97
39) 1,2-Dichloropropane	7.74	63	679592	10.554	ppbv 98
40) 1,4-Dioxane	7.95	88	243749	10.750	ppbv 86
41) Tetrahydrofuran	6.14	42	708749	10.526	ppbv 98
42) Bromodichloromethane	7.92	83	1546322	10.608	ppbv 99
43) Methyl Methacrylate	8.14	69	726812	10.856	ppbv 97

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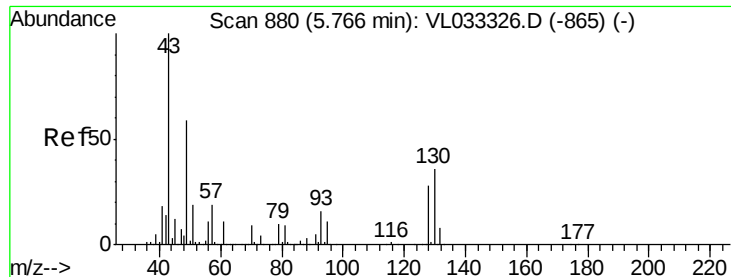
Manual Integrations
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 1
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	2938551	10.318	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	965360	11.679	ppbv	100
46) cis-1,3-Dichloropropene	8.84	75	1096569	11.267	ppbv	99
47) 1,1,2-Trichloroethane	9.61	97	732875	10.301	ppbv	95
48) Dibromochloromethane	10.45	129	1293633	10.842	ppbv	100
49) Bromoform	13.21	173	1184930	10.469	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	1798783	10.093	ppbv	99
51) 2-Hexanone	10.27	43	1379652	10.034	ppbv #	99
52) Tetrachloroethene	11.37	164	659399	9.205	ppbv	99
53) Toluene	9.95	91	2098406	10.740	ppbv	100
54) 1,2-Dibromoethane	10.76	107	1165915	9.694	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.28	131	913982	10.225	ppbv	97
57) Chlorobenzene	12.30	112	1531216	9.675	ppbv	99
58) Ethyl Benzene	12.87	91	2950673	10.438	ppbv	99
59) m/p-Xylene	13.13	91	4964574m	20.436	ppbv	
60) o-Xylene	13.85	91	2433471	10.268	ppbv	99
61) Styrene	13.69	104	1799383	10.844	ppbv	100
62) Isopropylbenzene	14.83	105	3383720	10.270	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	1673936	9.770	ppbv	100
64) n-propylbenzene	15.73	120	852660	10.227	ppbv	99
65) tert-Butylbenzene	16.91	119	3050201	10.282	ppbv	99
66) Benzyl Chloride	17.16	91	1551753	12.659	ppbv	99
67) sec-Butylbenzene	17.46	105	4327361	10.295	ppbv	100
69) p-Isopropyltoluene	17.82	119	3580843	10.427	ppbv	100
70) n-Butylbenzene	18.72	91	3677959	10.044	ppbv	100
71) 2-Chlorotoluene	15.62	91	2608981	10.172	ppbv	100
72) 4-Ethyltoluene	16.00	105	2784636	10.346	ppbv	100
73) 1,3,5-Trimethylbenzene	16.16	105	2737108	10.439	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	2775638	9.995	ppbv #	91
75) 1,3-Dichlorobenzene	17.17	146	1611281	9.845	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	1601854	10.109	ppbv	99
77) 1,2-Dichlorobenzene	17.99	146	1559811	10.063	ppbv	99
78) Hexachloro-1,3-Butadiene	23.55	225	1106150	11.902	ppbv	98
79) Naphthalene	22.41	128	2481863	9.275	ppbv	100
80) Naphthalene, 2-methyl-	25.12	142	1042402	8.215	ppbv	100
81) 1,2,4-Trichlorobenzene	22.14	180	1287964	9.439	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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MSVOA_L

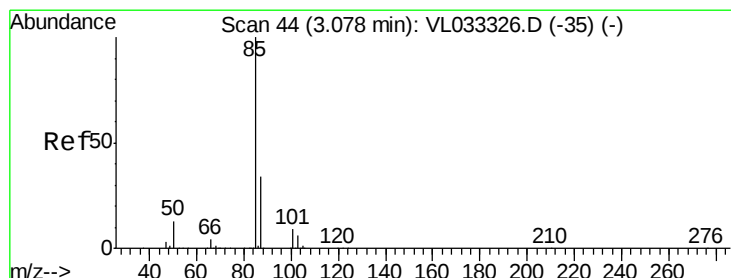
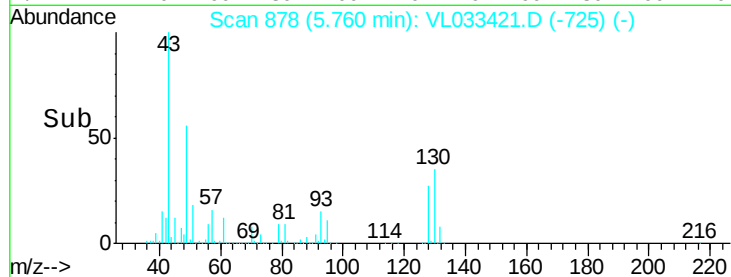
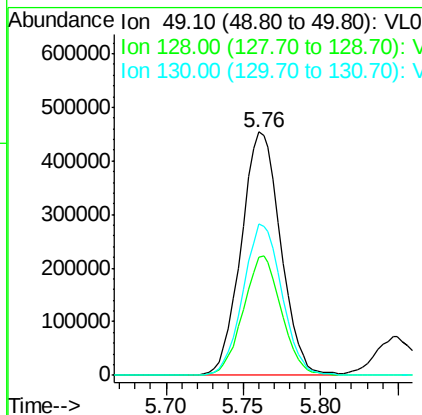
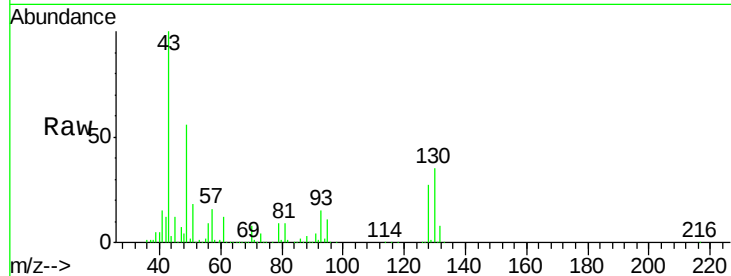
ClientSampleId :

VSTDCCC010

Tot Ion:	49	Resp:	806429
Ion	Ratio	Lower	Upper
49	100		
128	47.6	23.5	70.6
130	61.5	30.1	90.3

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#2

Dichlorodifluoromethane

Concen: 7.675 ppbv

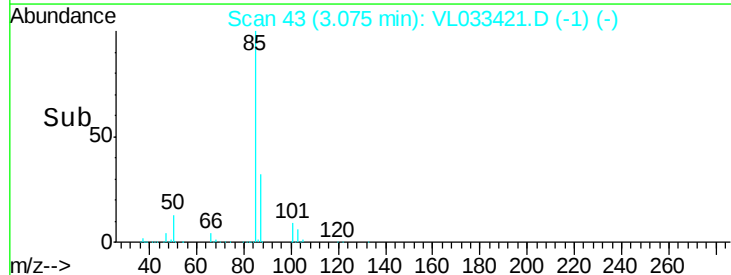
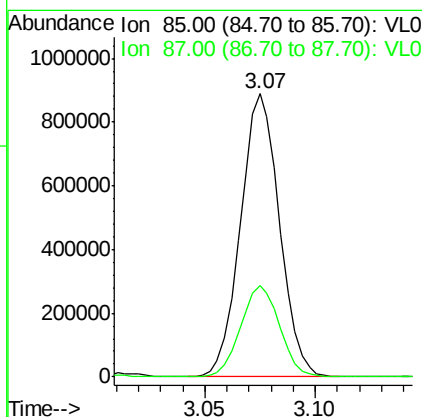
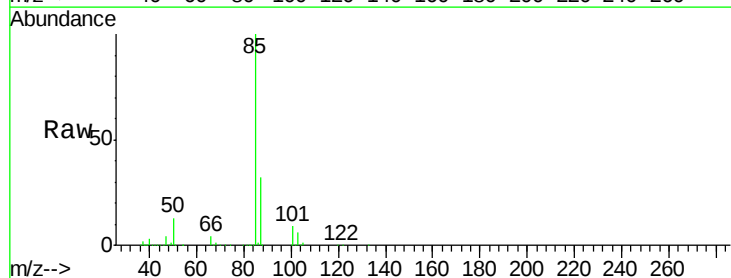
RT: 3.07 min Scan# 43

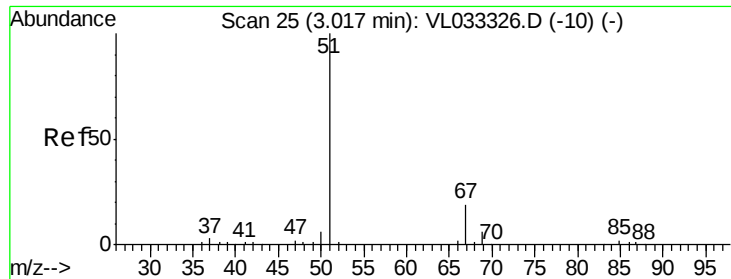
Delta R.T. -0.00 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Tgt Ion:	85	Resp:	1088422
Ion	Ratio	Lower	Upper
85	100		
87	32.4	26.9	40.3





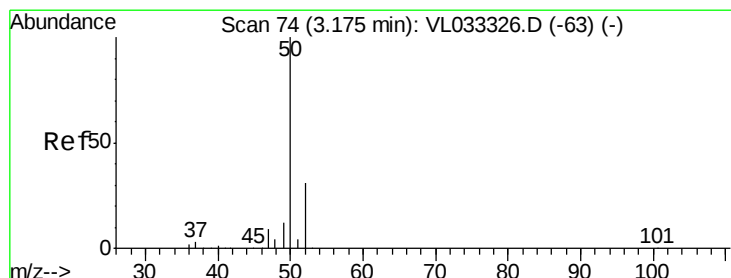
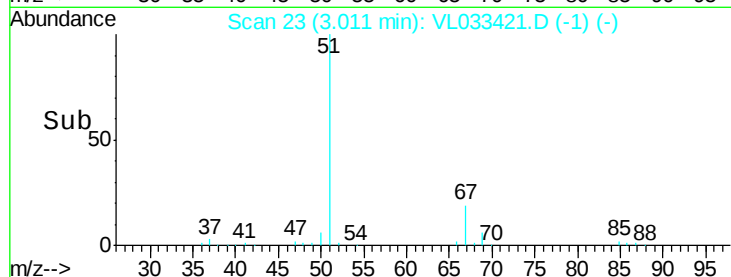
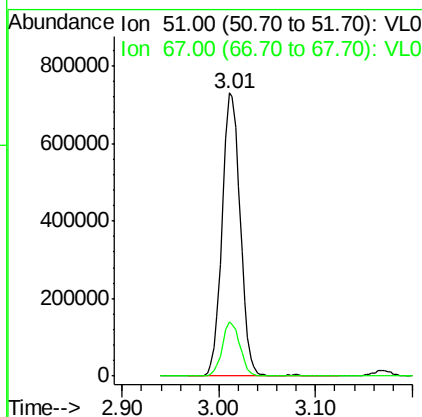
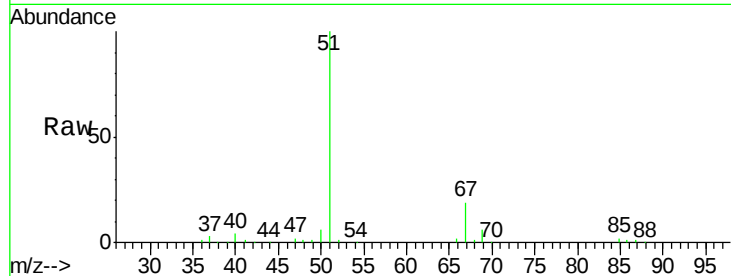
#3
Chlorodifluoromethane
Concen: 10.309 ppbv
RT: 3.01 min Scan# 23
Delta R.T. -0.01 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Instrument :
MSVOA_L
ClientSampleId :
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Tot Ion: 51 Resp: 954183
Ion Ratio Lower Upper
51 100
67 18.7 14.9 22.3

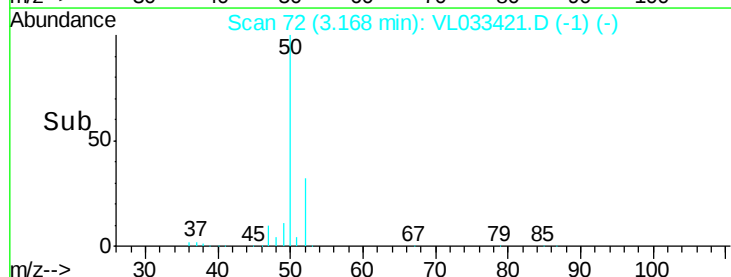
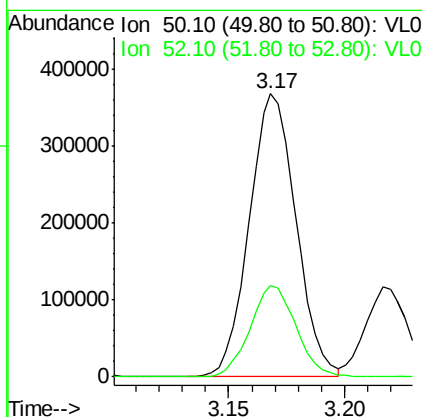
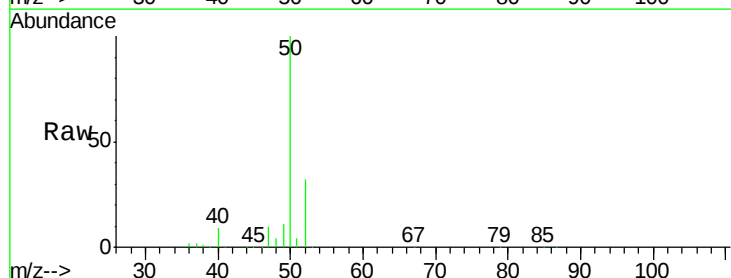
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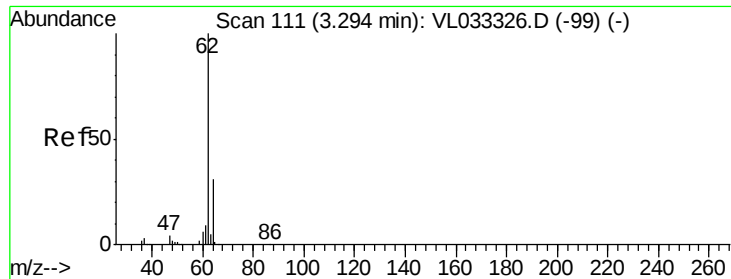
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#4
Chloromethane
Concen: 10.297 ppbv
RT: 3.17 min Scan# 72
Delta R.T. -0.01 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Tgt Ion: 50 Resp: 516076
Ion Ratio Lower Upper
50 100
52 32.4 25.0 37.6





#5

Vinyl Chloride

Concen: 9.622 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 62 Resp: 497522

Ion Ratio Lower Upper

62 100

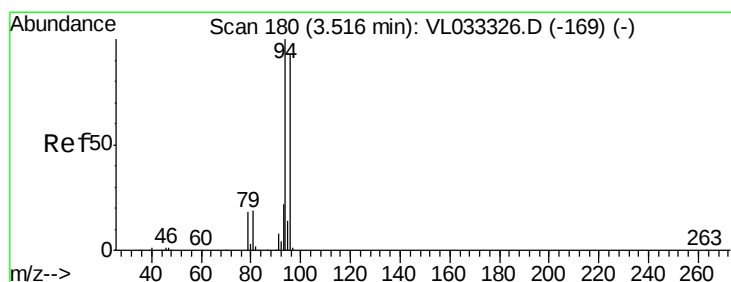
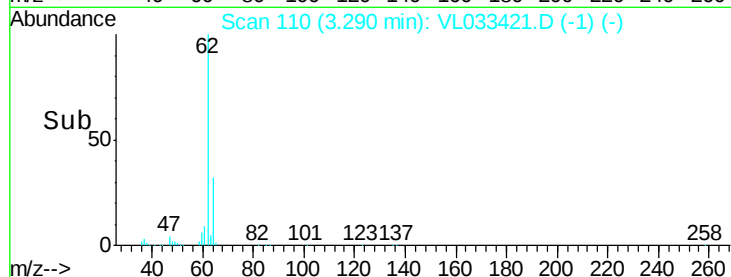
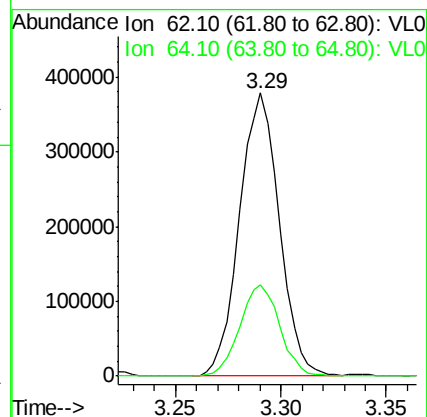
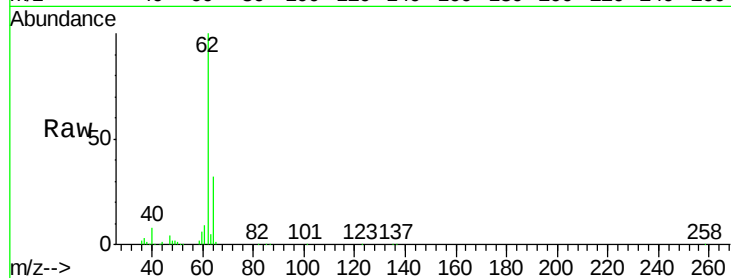
64 32.2 25.0 37.6

Manual Integrations

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#6

Bromomethane

Concen: 10.318 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033421.D

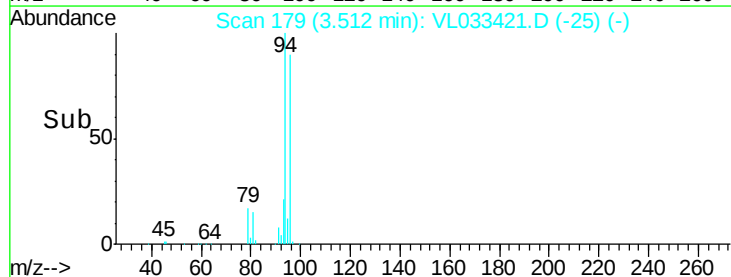
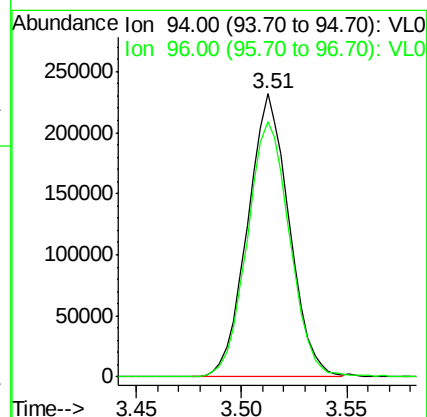
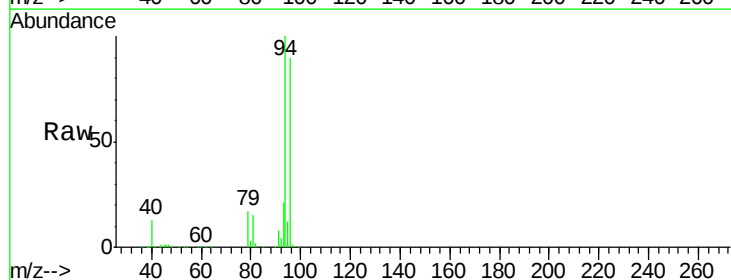
Acq: 21 Mar 2019 17:39

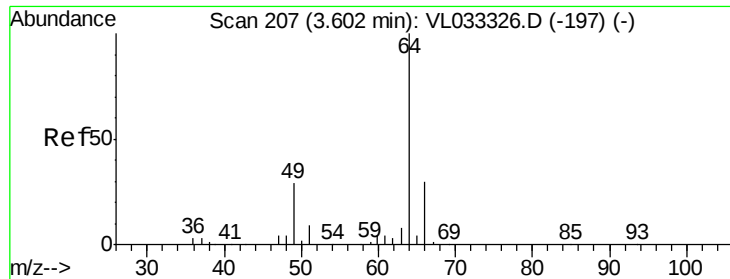
Tgt Ion: 94 Resp: 317135

Ion Ratio Lower Upper

94 100

96 90.2 74.6 111.8





#7

Chloroethane

Concen: 10.098 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

ClientSampleId :

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Tot Ion: 64 Resp: 182447

Ion Ratio Lower Upper

64 100

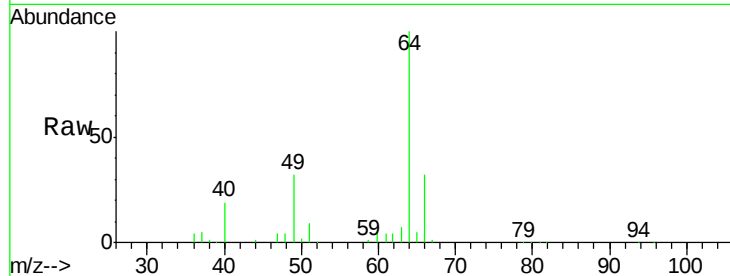
66 31.9 24.0 36.0

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

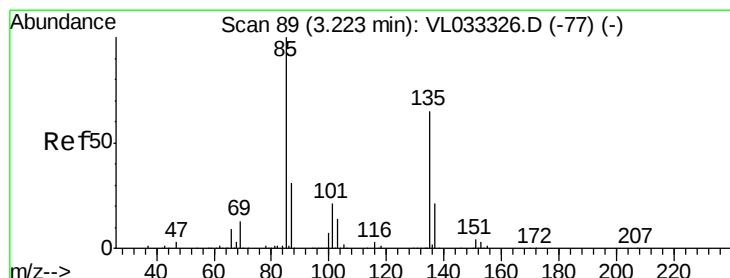
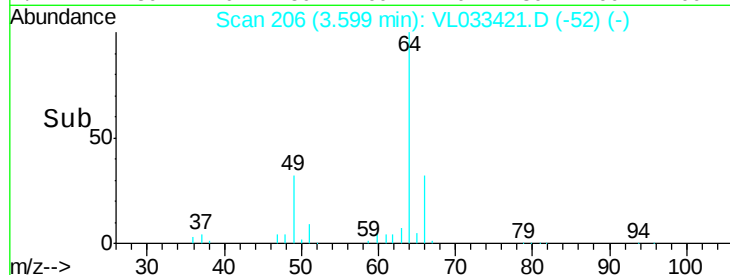
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 10.273 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033421.D

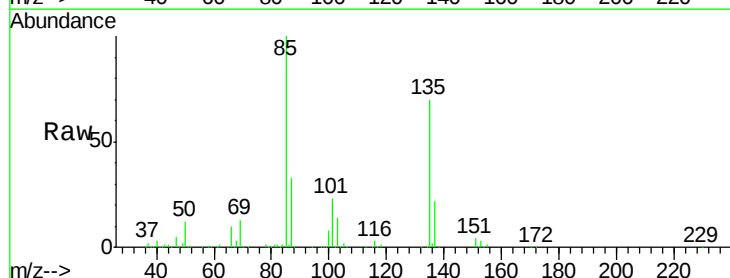
Acq: 21 Mar 2019 17:39

Tgt Ion: 85 Resp: 1240221

Ion Ratio Lower Upper

85 100

135 68.3 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

1000000

800000

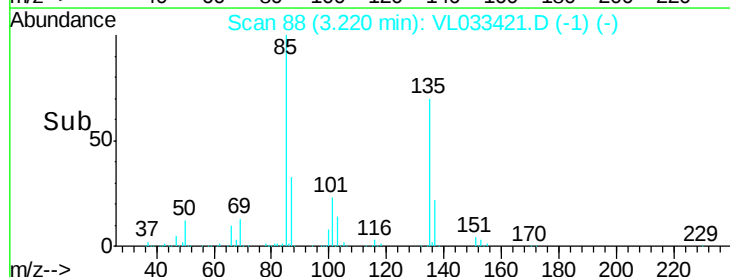
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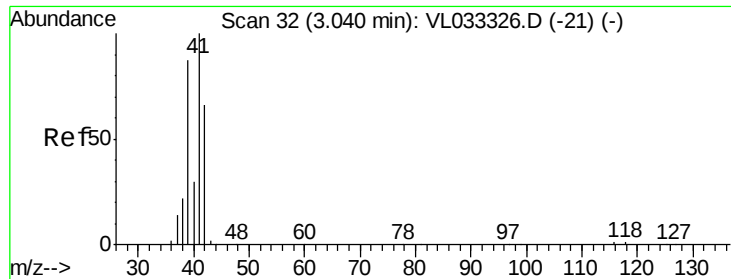
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200000

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Time-->





#9

Propene

Concen: 10.112 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 41 Resp: 417823

Ion Ratio Lower Upper

41 100

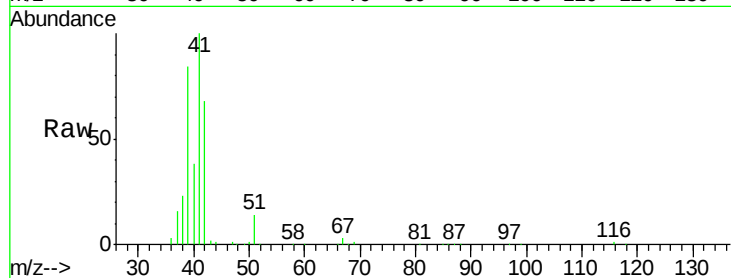
42 70.1 55.2 82.8

Manual Integrations

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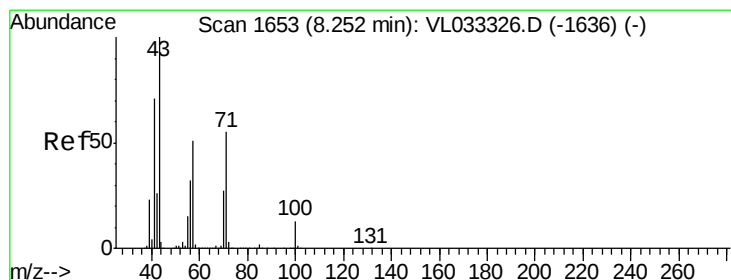
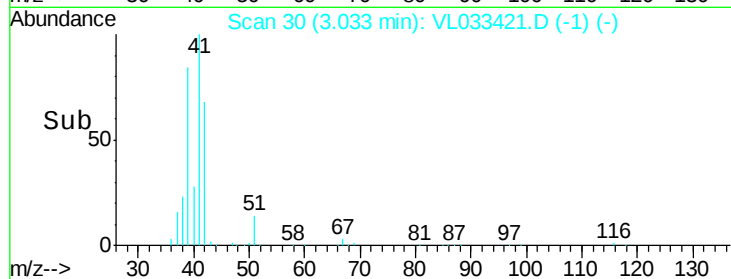
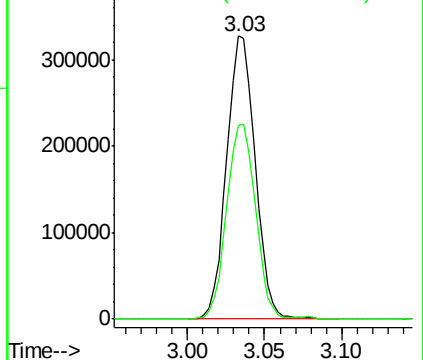
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 10.784 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. -0.00 min

Lab File: VL033421.D

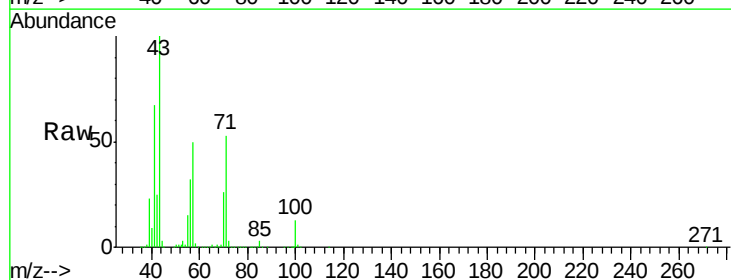
Acq: 21 Mar 2019 17:39

Tgt Ion: 43 Resp: 1105181

Ion Ratio Lower Upper

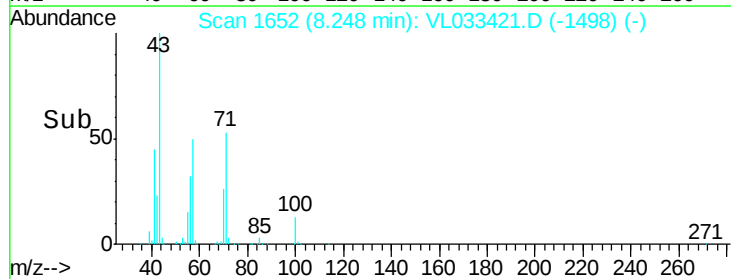
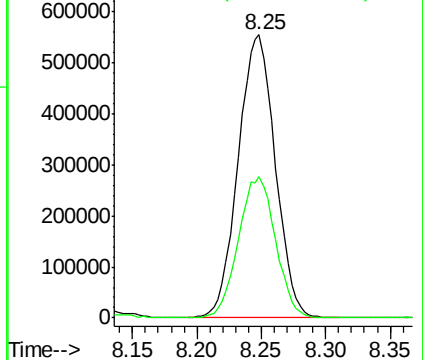
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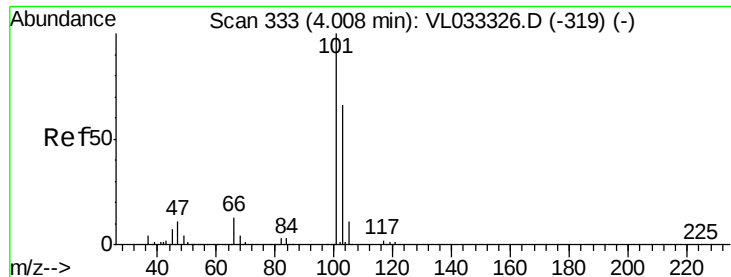
57 50.1 40.4 60.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 9.844 ppbv

RT: 4.00 min Scan# 331

Delta R.T. -0.01 min

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Acq: 21 Mar 2019 17:39

Instrument :

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ClientSampleId :

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Tot Ion:101 Resp: 1390170

Ion Ratio Lower Upper

101 100

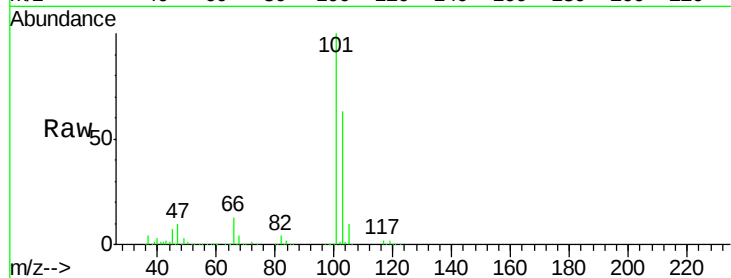
103 63.1 52.9 79.3

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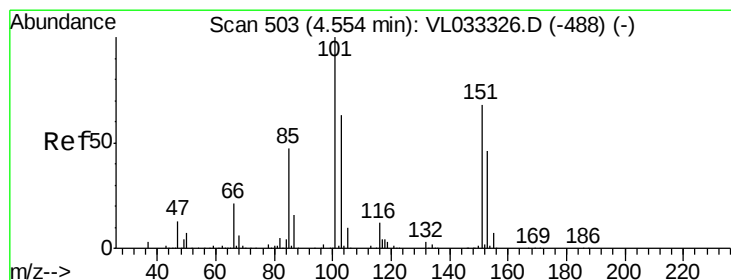
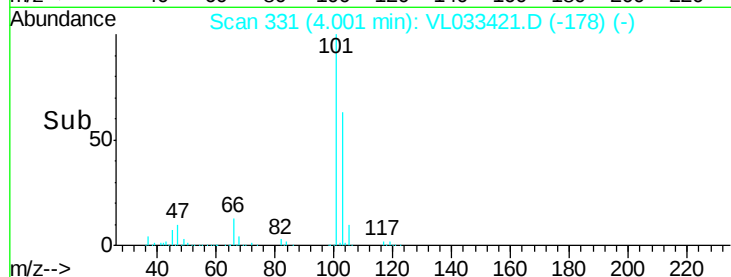
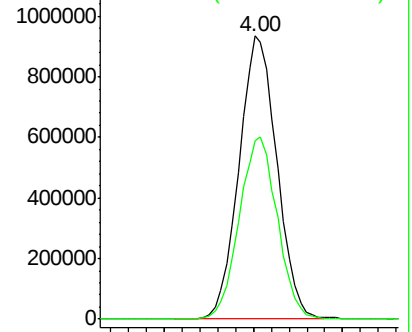
MMDadoda

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 12.626 ppbv

RT: 4.55 min Scan# 503

Delta R.T. -0.00 min

Lab File: VL033421.D

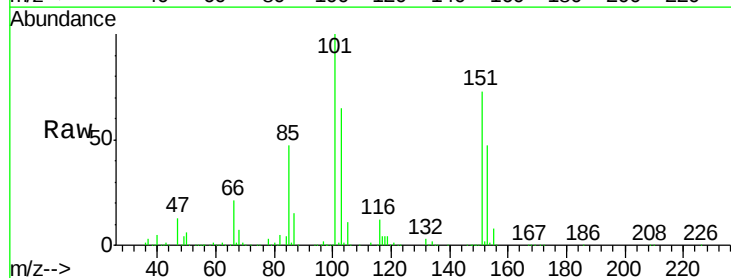
Acq: 21 Mar 2019 17:39

Tgt Ion:101 Resp: 1183004

Ion Ratio Lower Upper

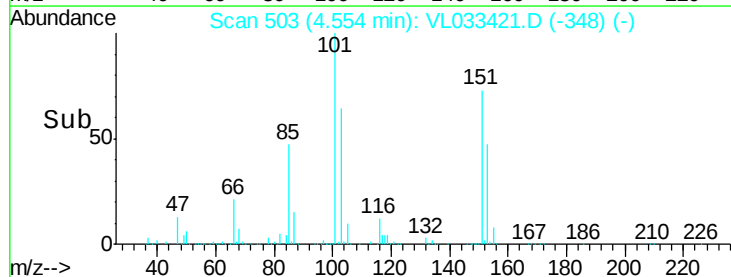
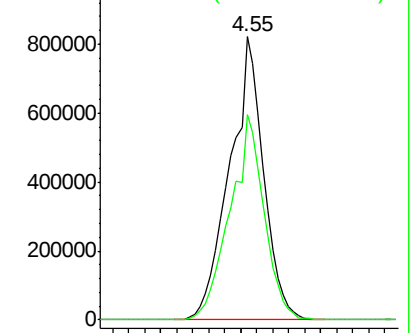
101 100

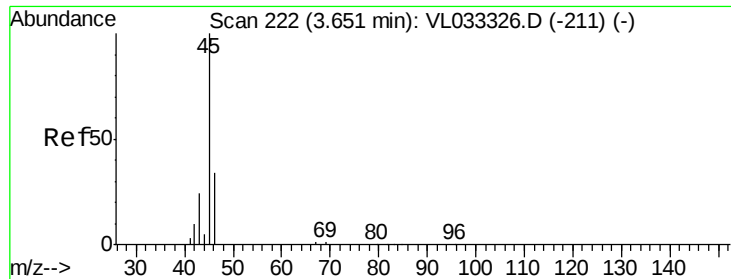
151 73.2 56.3 84.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 4.773 ppbv

RT: 3.64 min Scan# 220

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 94020

Ion Ratio Lower Upper

45 100

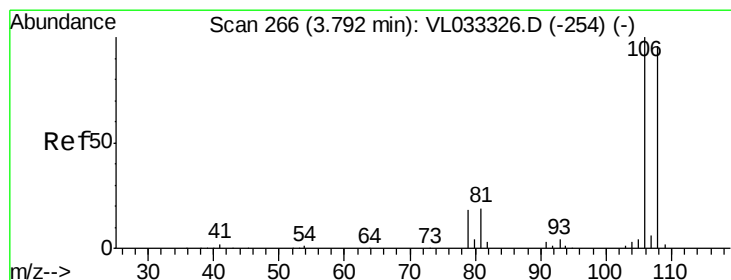
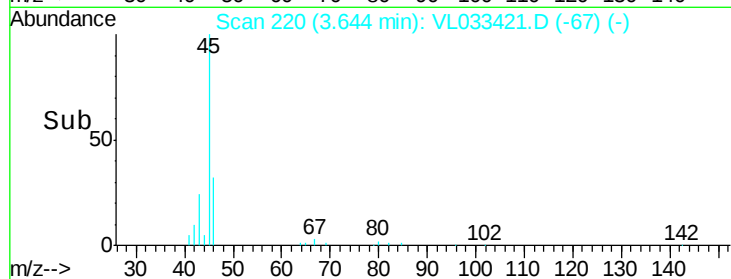
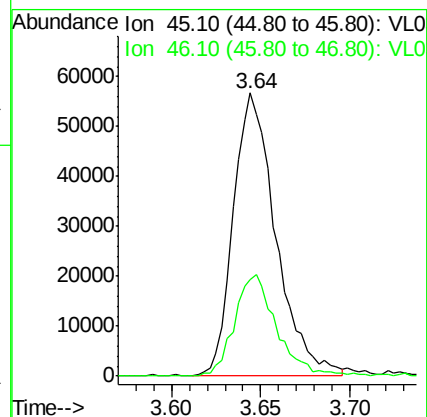
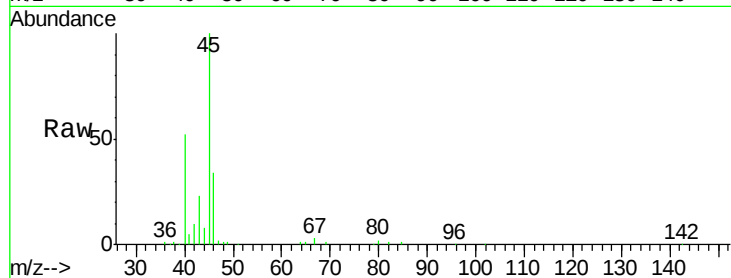
46 36.2 14.9 59.7

Manual Integrations

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#14

Bromoethene

Concen: 10.372 ppbv

RT: 3.79 min Scan# 264

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

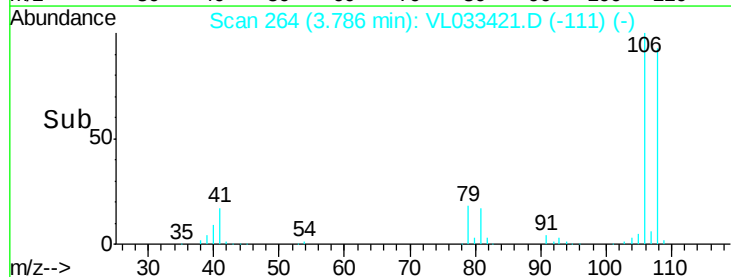
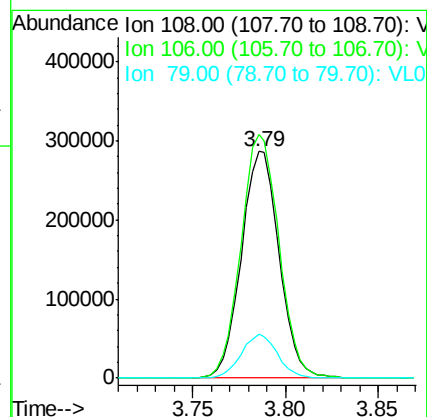
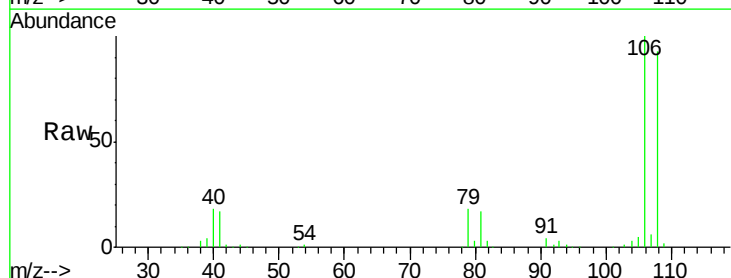
Tgt Ion: 108 Resp: 405032

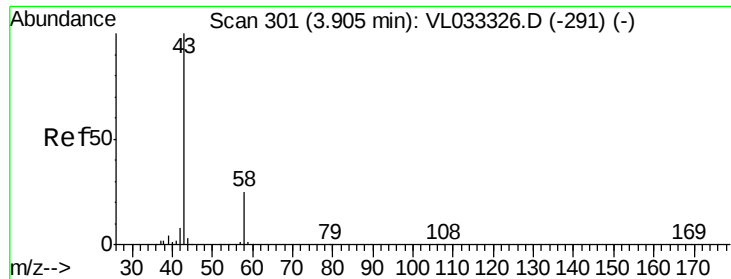
Ion Ratio Lower Upper

108 100

106 108.9 86.2 129.2

79 19.0 15.4 23.2





#15

Acetone

Concen: 7.049 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 43 Resp: 883689

Ion Ratio Lower Upper

43 100

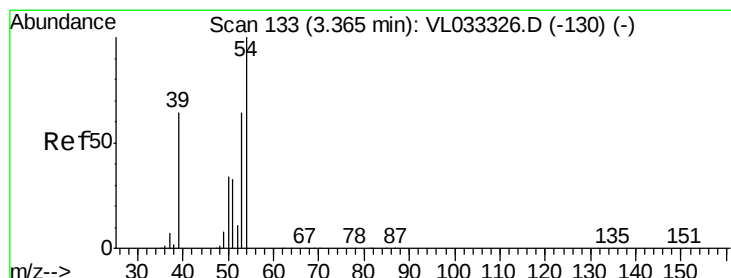
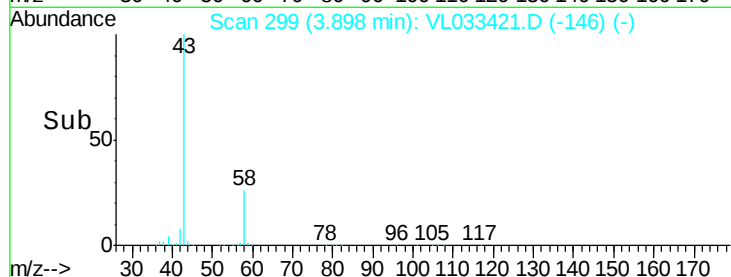
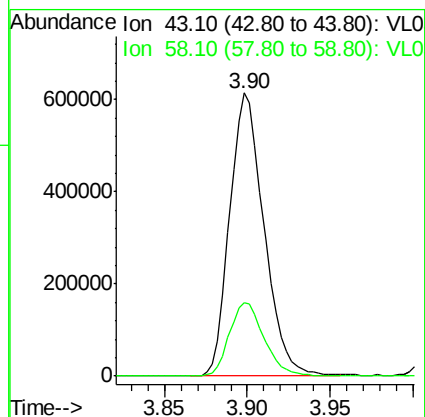
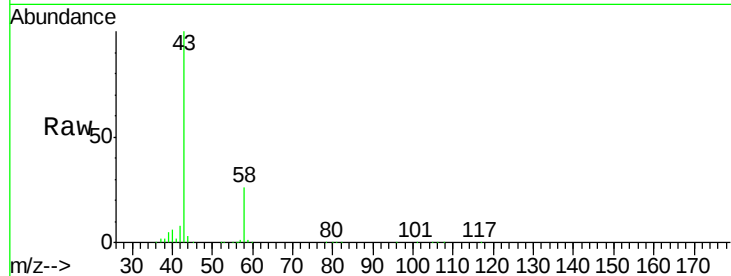
58 26.4 20.4 30.6

Manual Integrations

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#16

1,3-Butadiene

Concen: 9.596 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033421.D

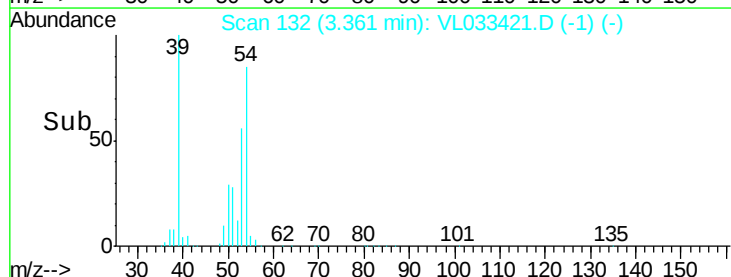
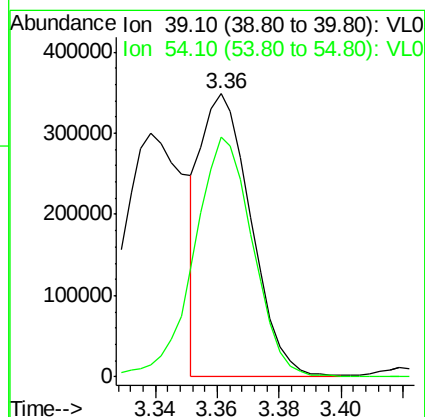
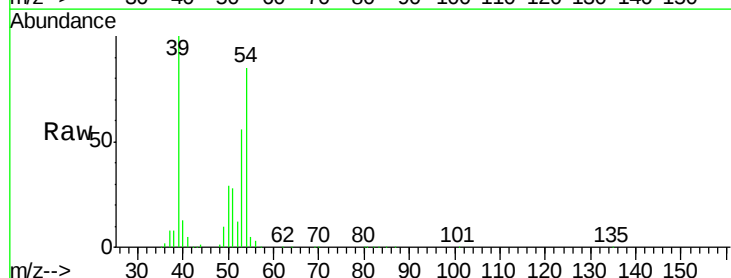
Acq: 21 Mar 2019 17:39

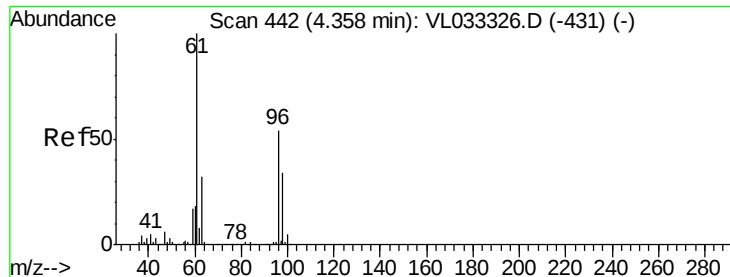
Tgt Ion: 39 Resp: 390714

Ion Ratio Lower Upper

39 100

54 100.5 76.8 115.2





#17

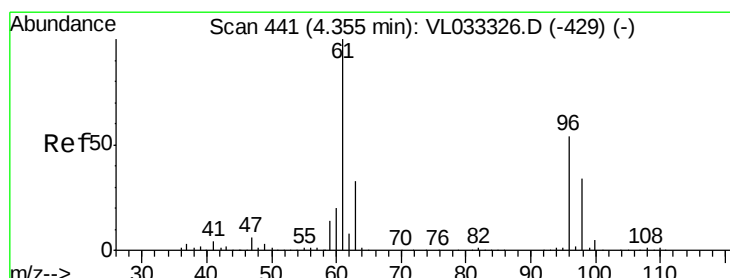
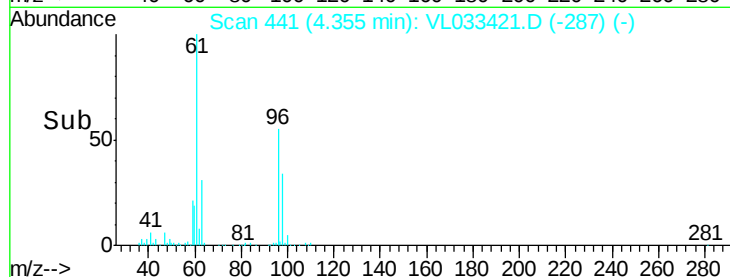
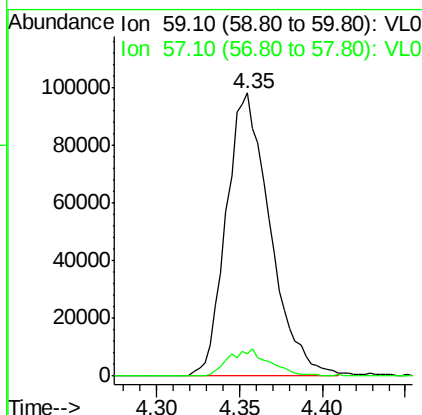
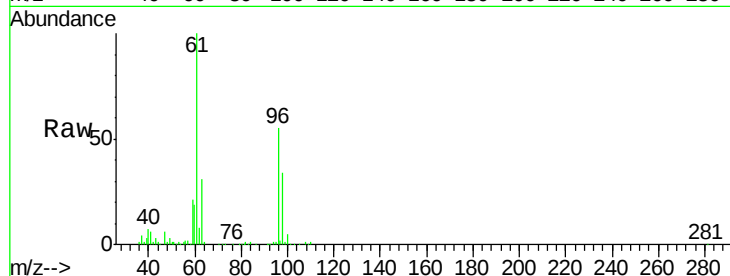
tert-Butyl alcohol
Concen: 10.118 ppbv
RT: 4.35 min Scan# 441
Delta R.T. -0.00 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	59	Resp	178488
Ion Ratio	59	100	
Lower	57	9.2	7.7
Upper			11.5

Manual Integrations
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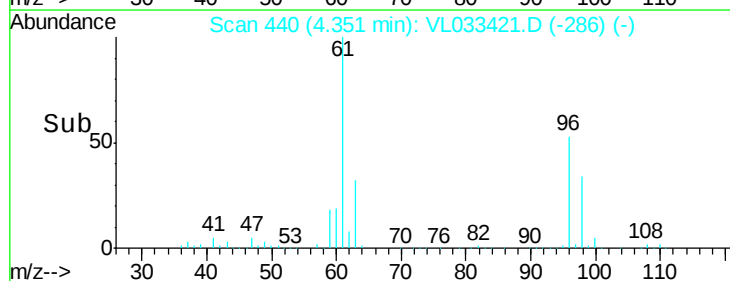
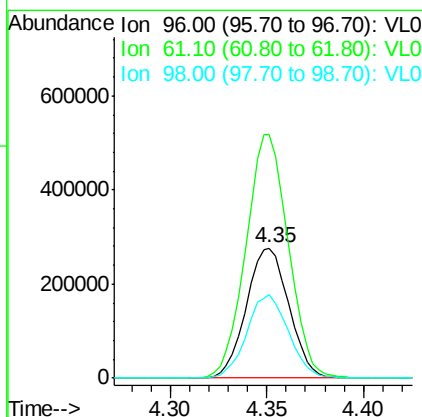
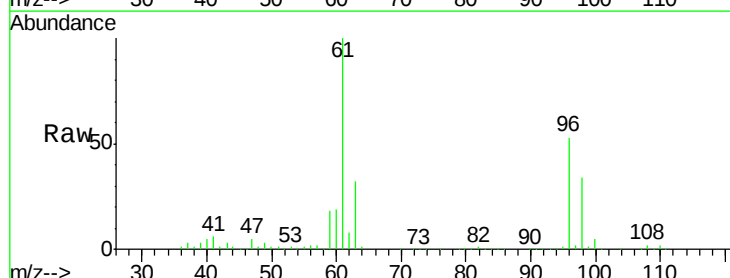
MMDadoda
3/25/2019 8:28:10 AM

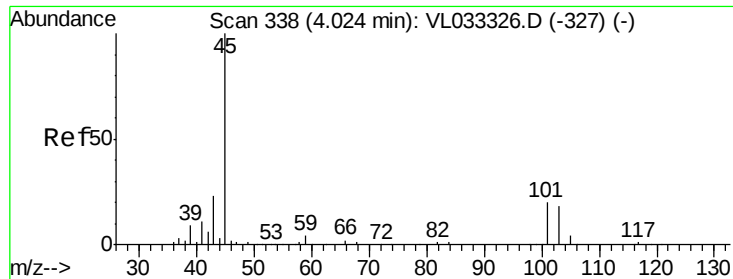


#18

1,1-Dichloroethene
Concen: 9.871 ppbv
RT: 4.35 min Scan# 440
Delta R.T. -0.00 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Tgt Ion	96	Resp	422865
Ion Ratio	96	100	
Lower	61	187.5	148.6
Upper	98	64.4	50.3
			75.5





#19

Isopropyl Alcohol

Concen: 10.439 ppbv

RT: 4.02 min Scan# 336

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 45 Resp: 622472

Ion Ratio Lower Upper

45 100

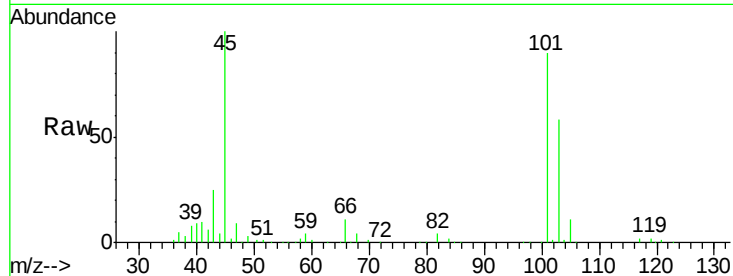
58 1.9 1.5 2.3

Manual Integrations

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.02

400000

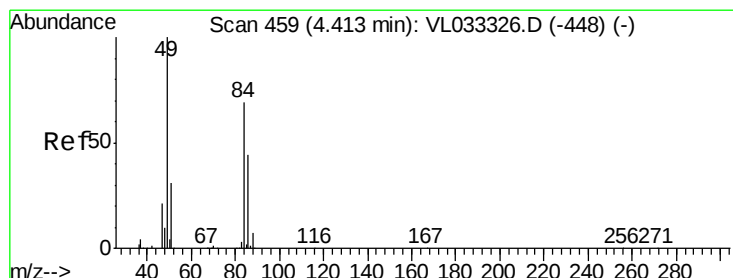
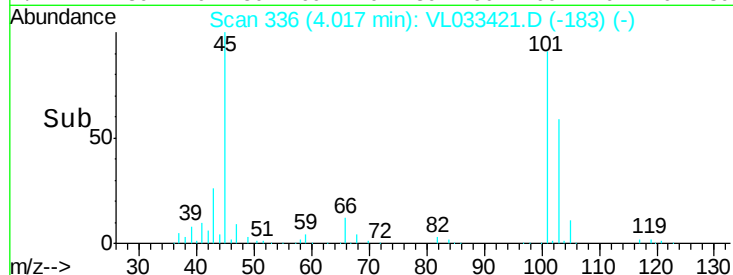
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 8.488 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Tgt Ion: 84 Resp: 347037

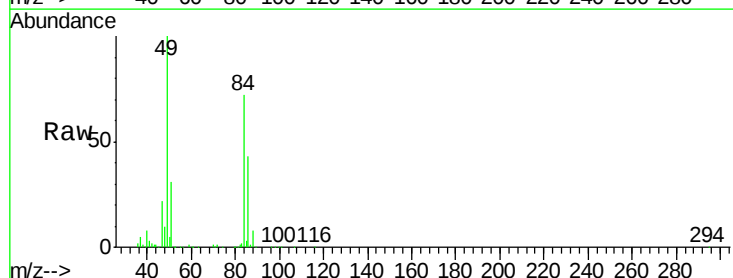
Ion Ratio Lower Upper

84 100

49 137.7 115.4 173.0

51 42.8 35.8 53.6

86 59.7 50.6 75.8



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

500000

400000

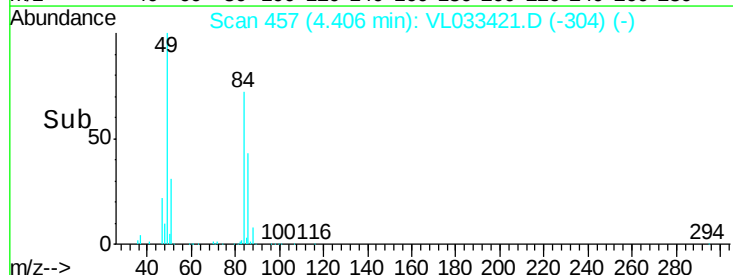
300000

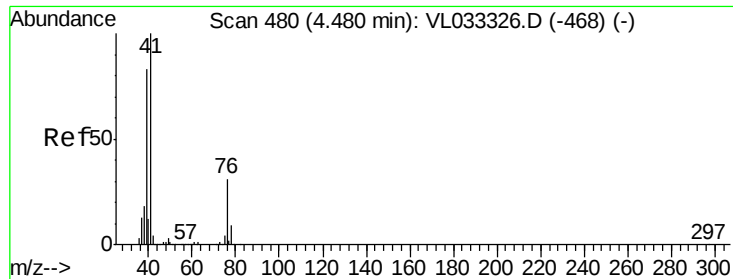
200000

100000

0

Time-->





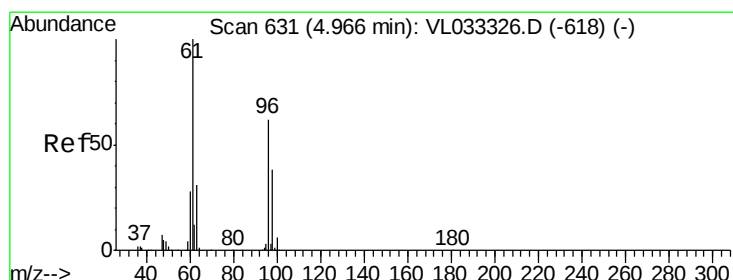
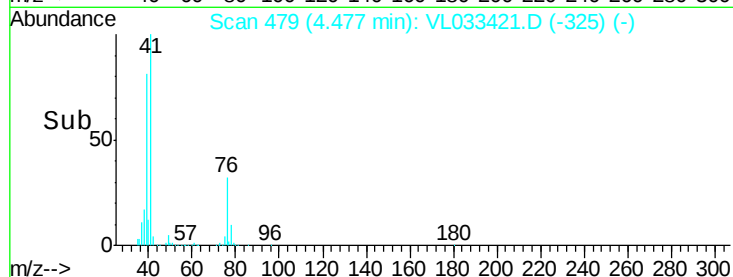
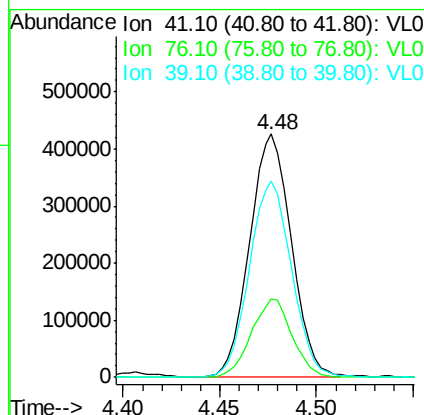
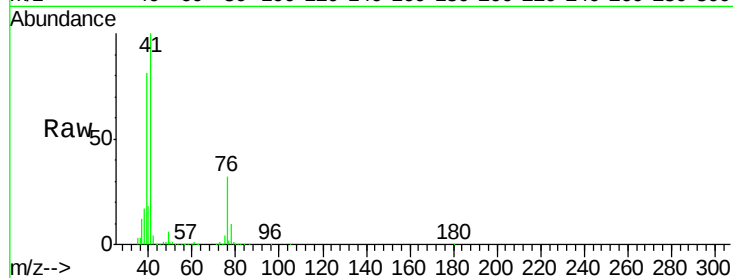
#21
Allvl Chloride
Concen: 10.482 ppbv
RT: 4.48 min Scan# 479
Delta R.T. -0.00 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
41	100		
76	31.7	25.0	37.4
39	82.0	65.9	98.9

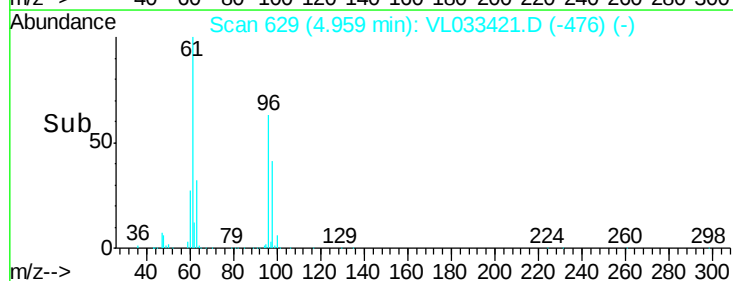
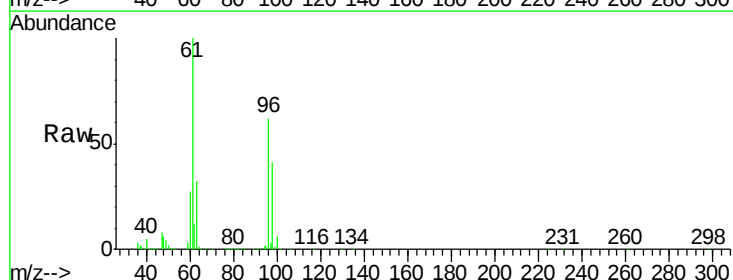
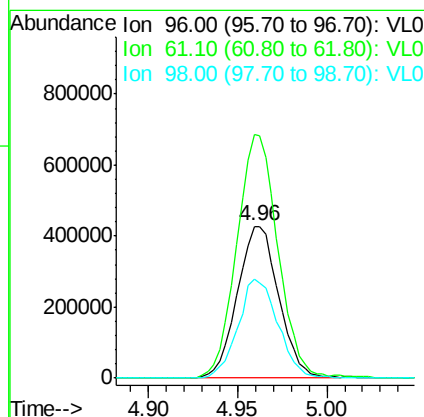
Manual Integrations
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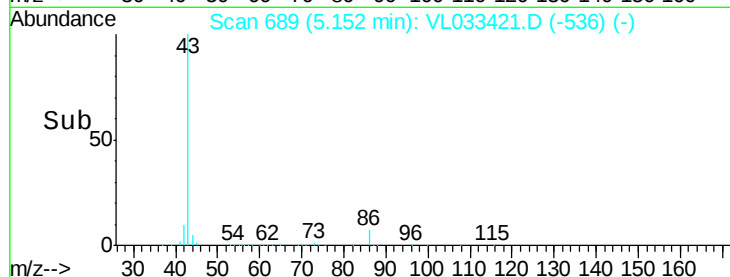
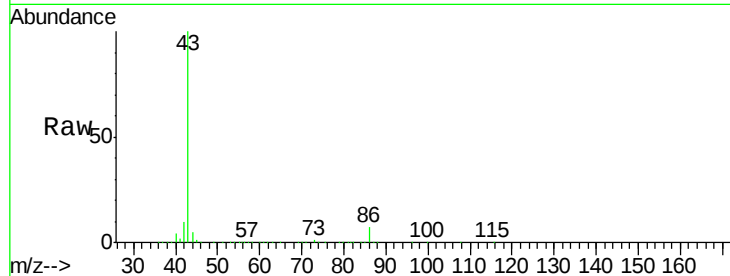
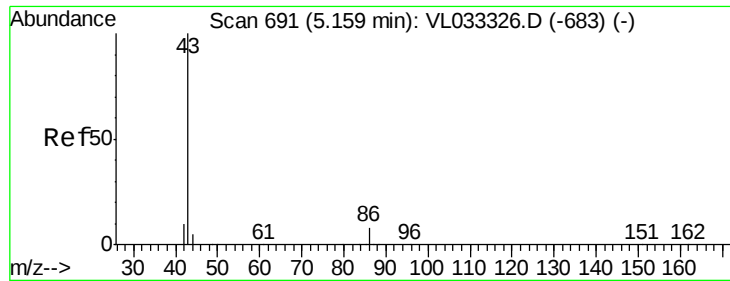
MMDadoda
3/25/2019 8:28:10 AM



#22
trans-1,2-Dichloroethene
Concen: 16.682 ppbv
RT: 4.96 min Scan# 629
Delta R.T. -0.01 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Tgt Ion	Ratio	Lower	Upper
96	100		
61	160.1	130.0	195.0
98	64.9	50.0	75.0





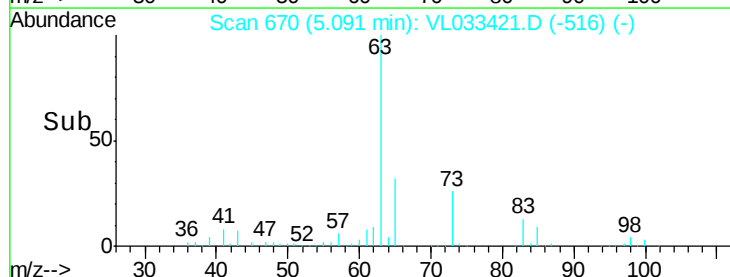
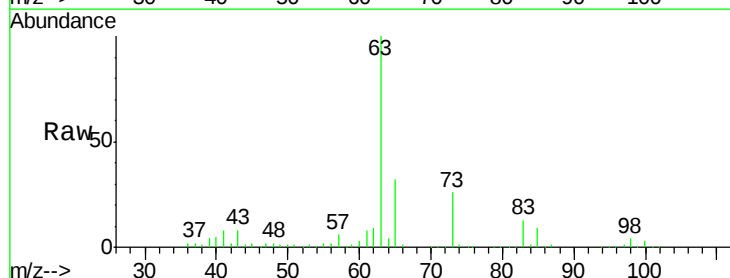
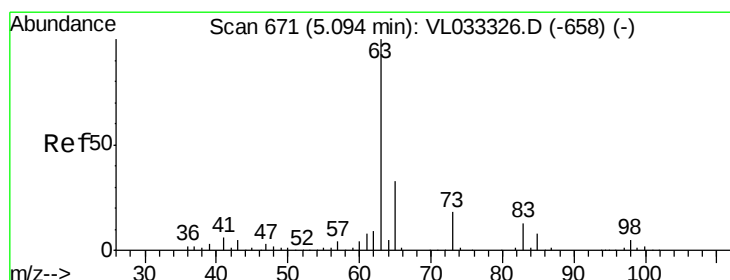
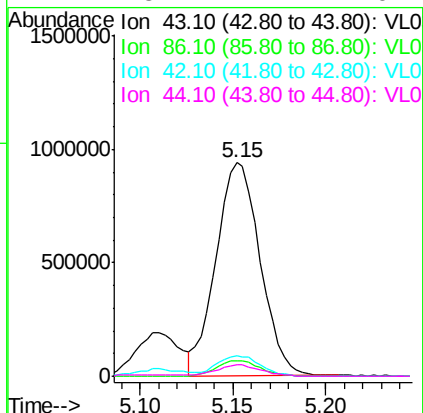
#23
 Vinyl Acetate
 Concen: 10.669 ppbv
 RT: 5.15 min Scan# 689
 Delta R.T. -0.01 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

Tot Ion:	43	Resp:	1547529
Ion	Ratio	Lower	Upper
43	100		
86	7.1	6.2	9.2
42	9.8	8.1	12.1
44	5.1	4.1	6.1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010

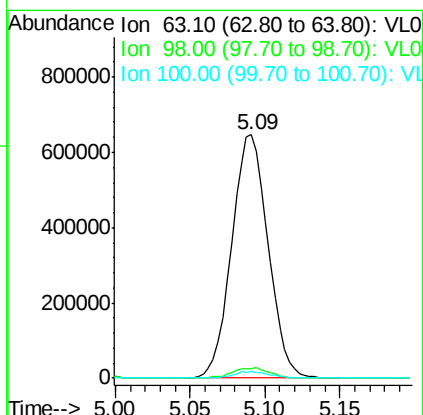
Manual Integrations
 APPROVED

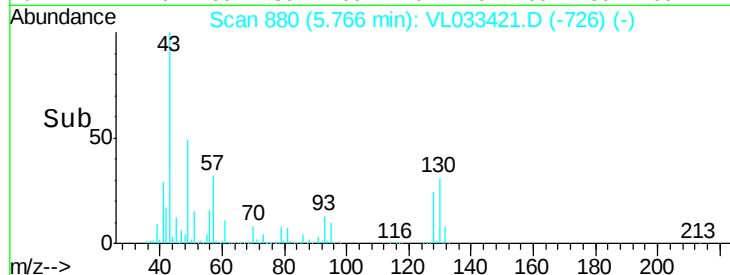
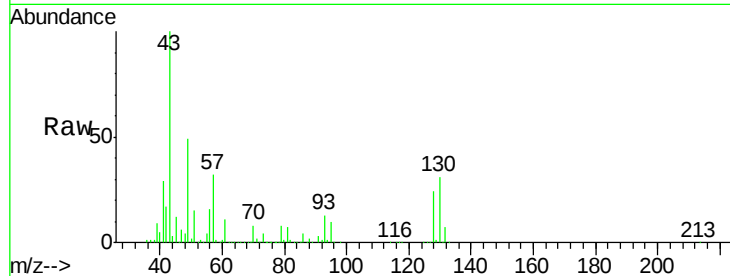
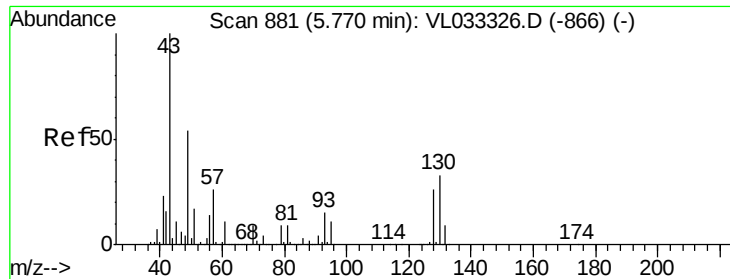
MMDadoda
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#24
 1,1-Dichloroethane
 Concen: 10.451 ppbv
 RT: 5.09 min Scan# 670
 Delta R.T. -0.00 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

Tgt Ion:	63	Resp:	1094761
Ion	Ratio	Lower	Upper
63	100		
98	4.1	2.4	7.1
100	2.6	1.3	3.8





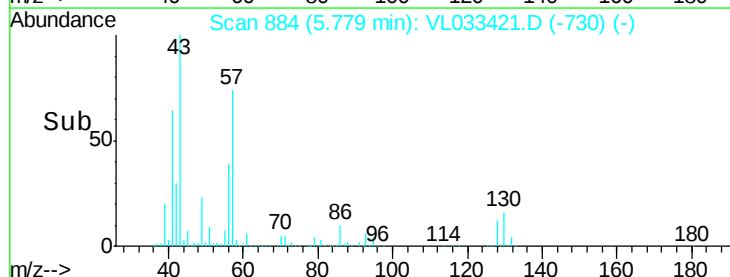
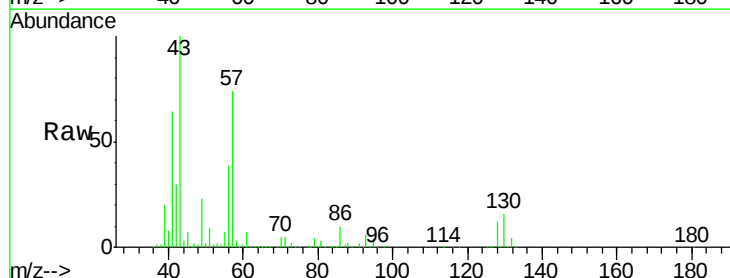
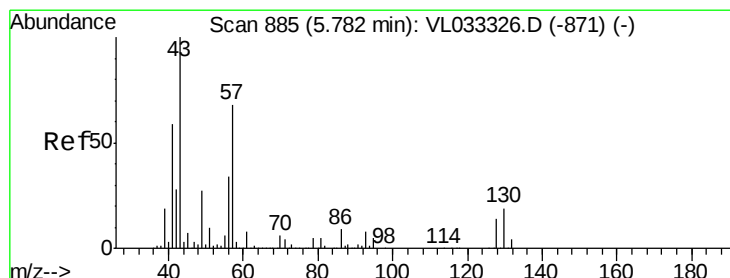
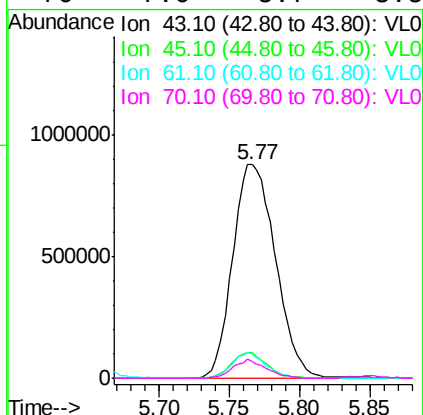
#25
Ethyl Acetate
Concen: 10.234 ppbv
RT: 5.77 min Scan# 880
Delta R.T. -0.00 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Tot Ion	43	Resp	1864832
Ion	Ratio	Lower	Upper
43	100		
45	10.0	7.9	11.9
61	9.5	7.4	11.2
70	7.0	5.7	8.5

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

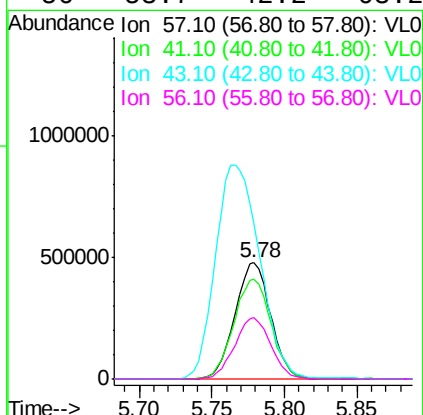
Manual Integrations
APPROVED

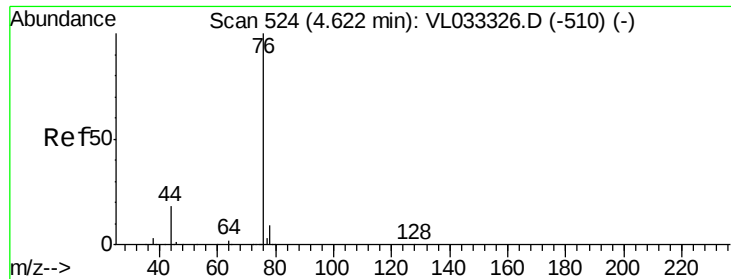
MMDadoda
3/25/2019 8:28:10 AM



#26
Hexane
Concen: 10.034 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Tgt Ion	57	Resp	817436
Ion	Ratio	Lower	Upper
57	100		
41	89.9	70.5	105.7
43	229.4	181.8	272.8
56	53.7	42.2	63.2





#27

Carbon Disulfide

Concen: 17.563 ppbv

RT: 4.62 min Scan# 523

Delta R.T. -0.00 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 76 Resp: 1647139

Ion Ratio Lower Upper

76 100

44 18.6 15.2 22.8

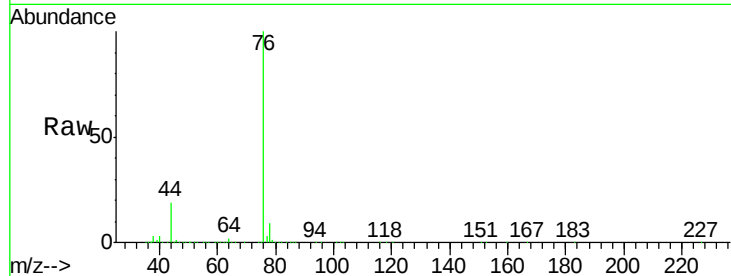
78 9.4 7.2 10.8

Manual Integrations

APPROVED

MMDadoda

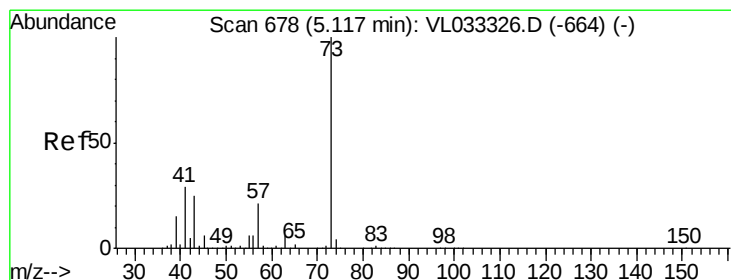
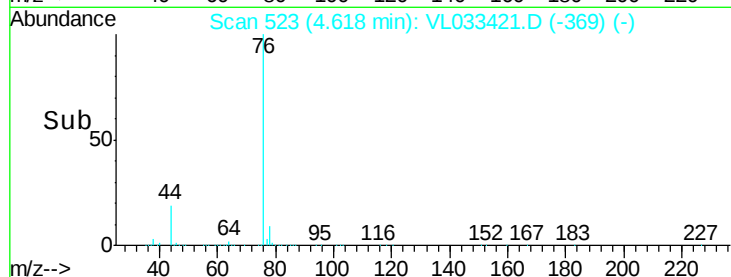
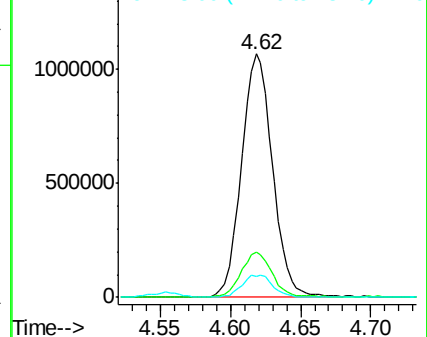
3/25/2019 8:28:10 AM



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: 10.921 ppbv

RT: 5.11 min Scan# 676

Delta R.T. -0.01 min

Lab File: VL033421.D

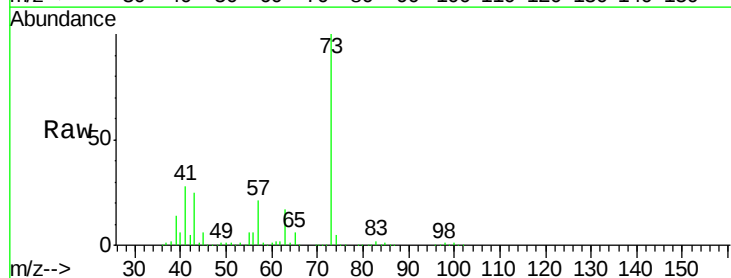
Acq: 21 Mar 2019 17:39

Tgt Ion: 73 Resp: 1321541

Ion Ratio Lower Upper

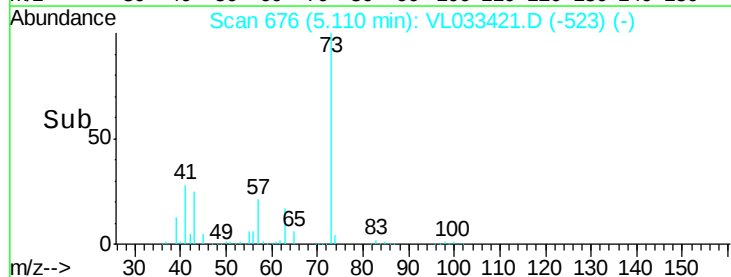
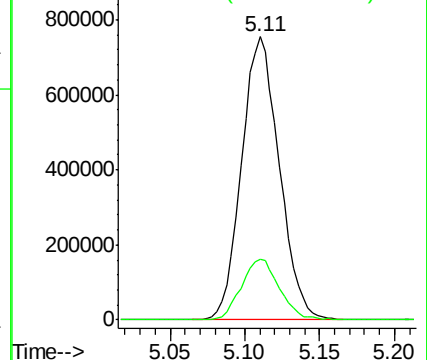
73 100

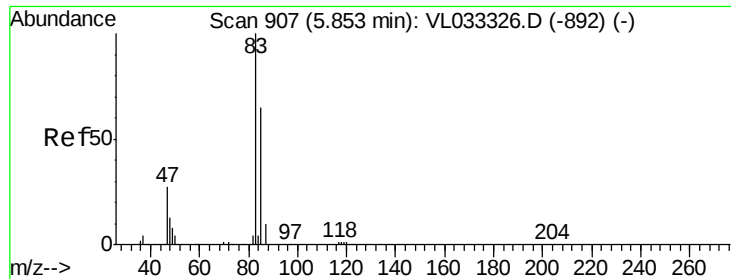
57 21.8 17.4 26.0



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 10.505 ppbv

RT: 5.85 min Scan# 905

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Tot Ion: 83 Resp: 1401323

Ion Ratio Lower Upper

83 100

85 64.4 52.0 78.0

Instrument :

MSVOA_L

ClientSampleId :

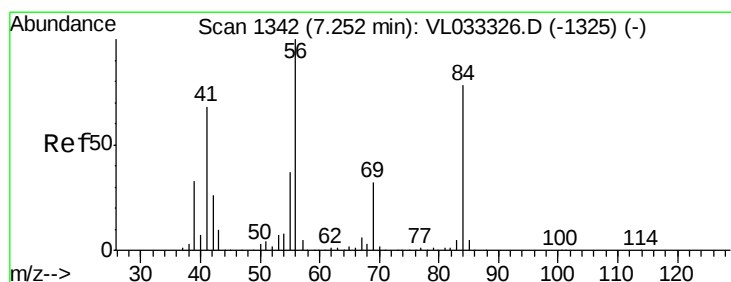
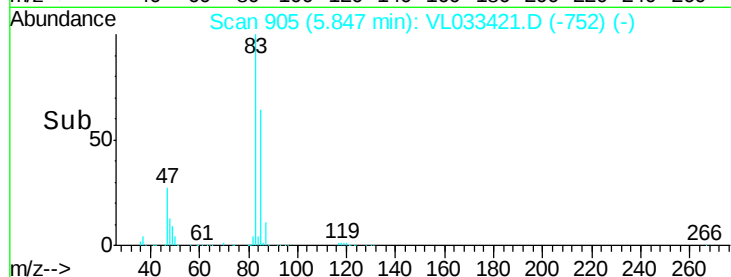
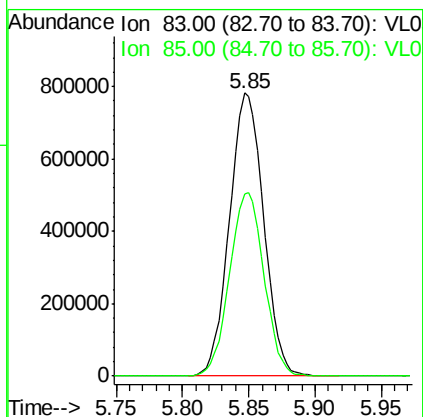
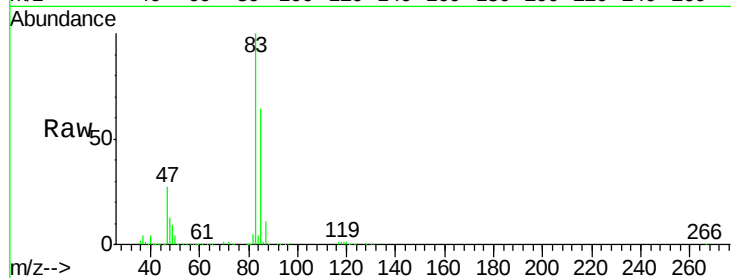
VSTDCCC010

Manual Integrations

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#30

Cyclohexane

Concen: 10.918 ppbv

RT: 7.25 min Scan# 1340

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

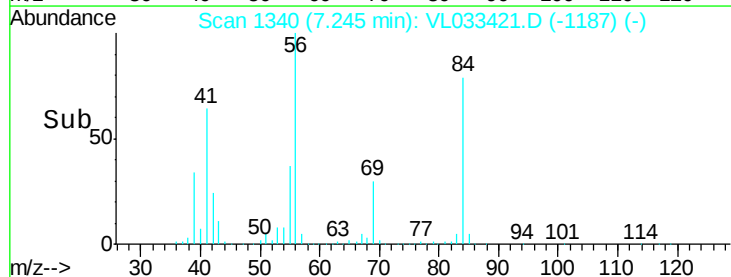
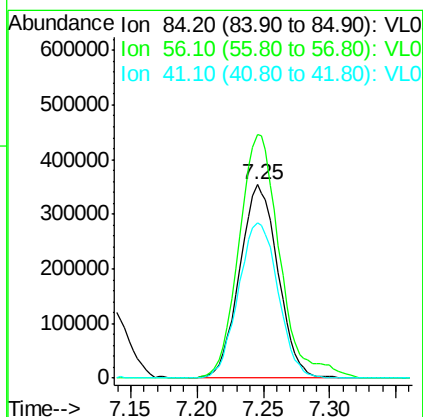
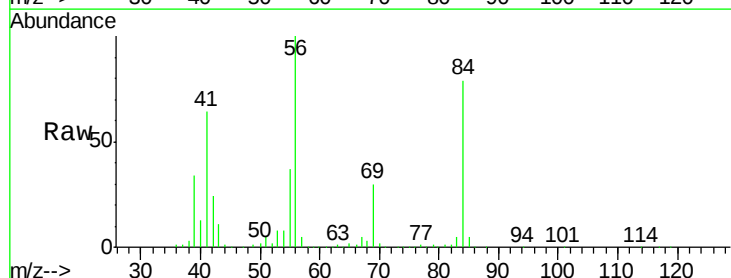
Tgt Ion: 84 Resp: 713149

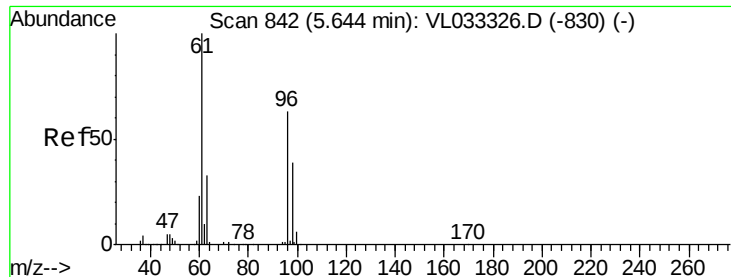
Ion Ratio Lower Upper

84 100

56 133.9 111.3 166.9

41 83.4 69.6 104.4





#31

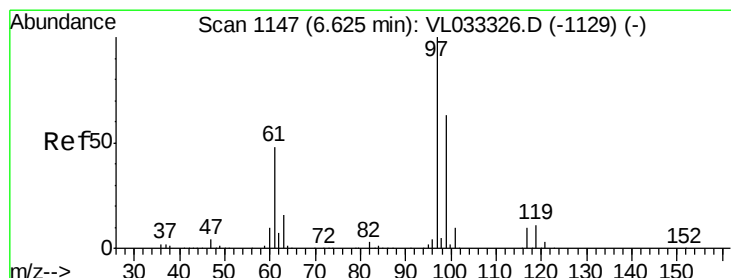
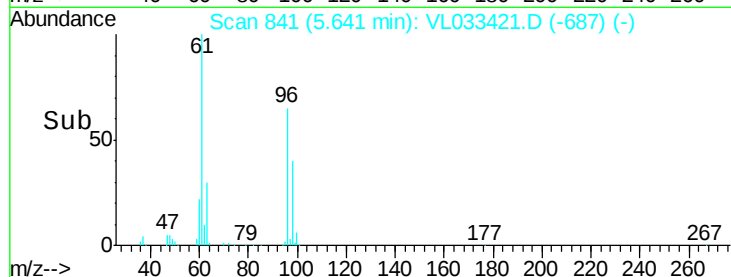
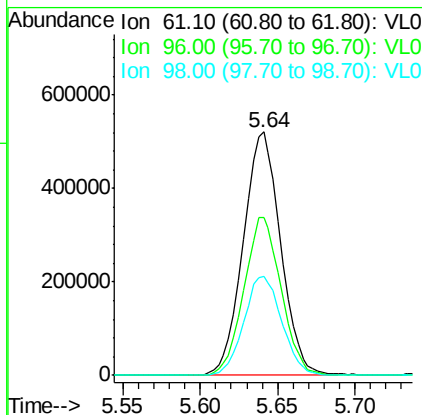
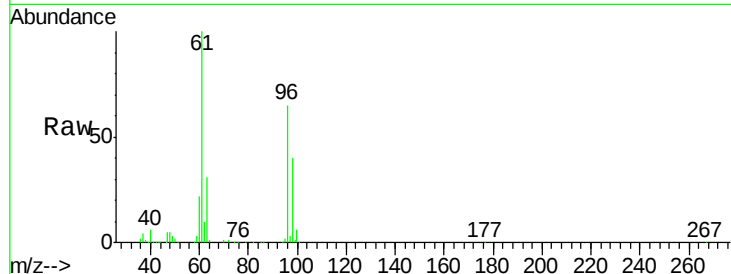
cis-1,2-Dichloroethene
 Concen: 10.787 ppbv
 RT: 5.64 min Scan# 841
 Delta R.T. -0.00 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
61	100		
96	64.9	50.3	75.5
98	40.4	31.5	47.3

Manual Integrations
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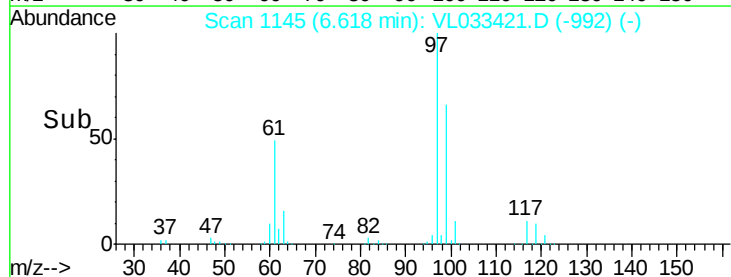
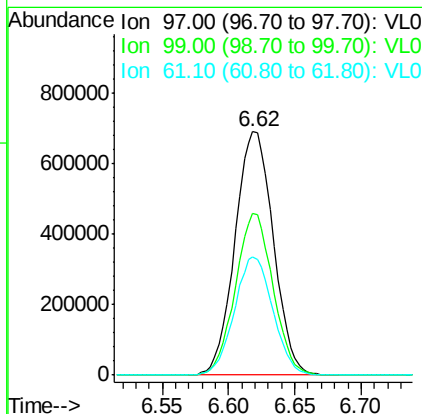
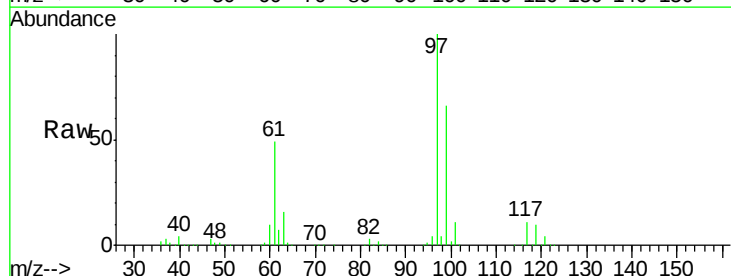
MMDadoda
 3/25/2019 8:28:10 AM

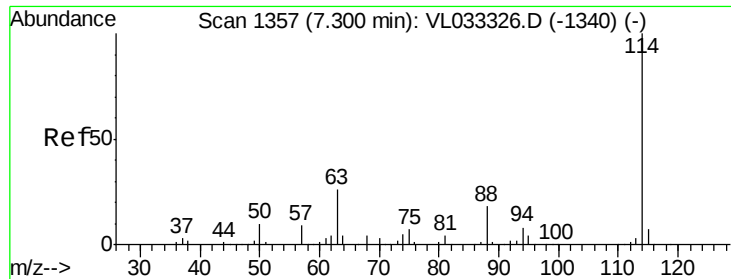


#32

1,1,1-Trichloroethane
 Concen: 10.634 ppbv
 RT: 6.62 min Scan# 1145
 Delta R.T. -0.01 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.0	76.6
61	48.7	39.3	58.9





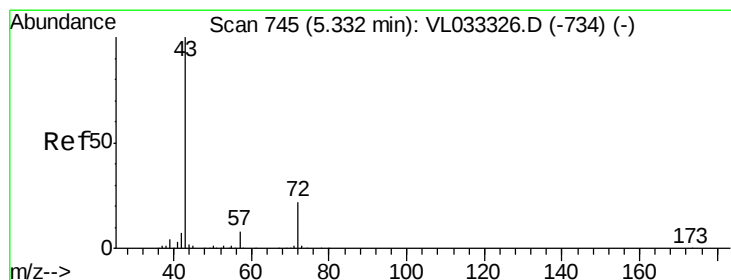
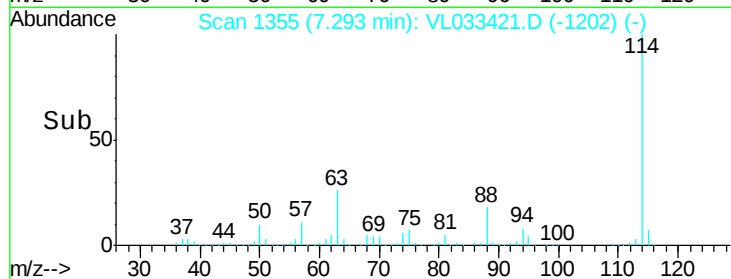
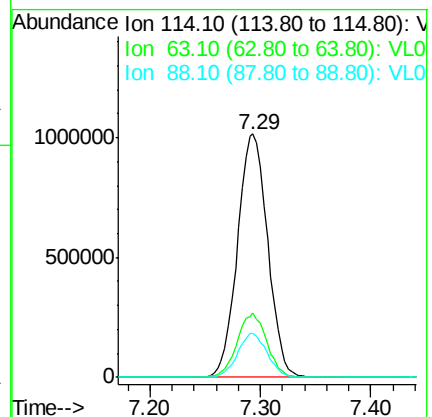
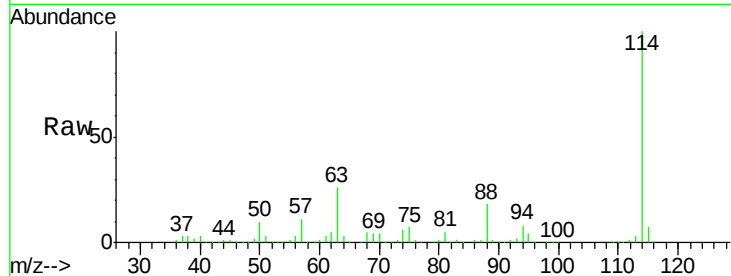
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.01 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion:114 Resp: 1921275
 Ion Ratio Lower Upper
 114 100
 63 26.3 21.4 32.2
 88 17.7 14.5 21.7

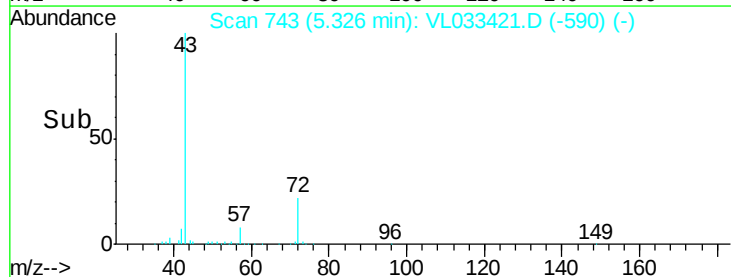
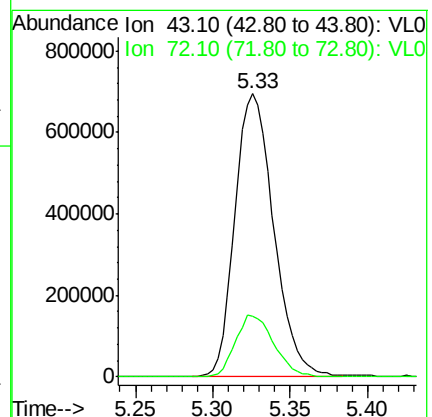
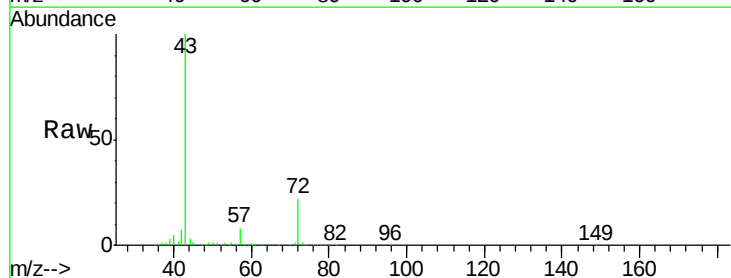
Manual Integrations
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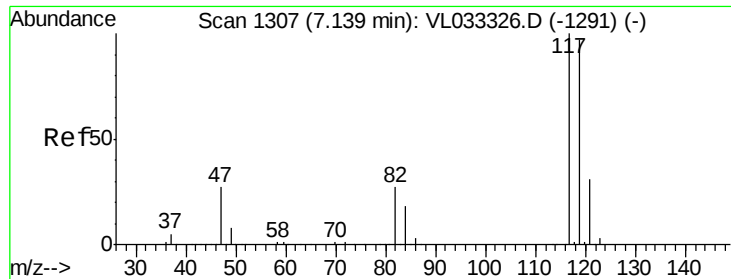
MMDadoda
 3/25/2019 8:28:10 AM



#34
 2-Butanone
 Concen: 9.554 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. -0.01 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

Tgt Ion: 43 Resp: 1205550
 Ion Ratio Lower Upper
 43 100
 72 21.9 17.7 26.5





#35

Carbon Tetrachloride

Concen: 10.760 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:117 Resp: 1457461

Ion Ratio Lower Upper

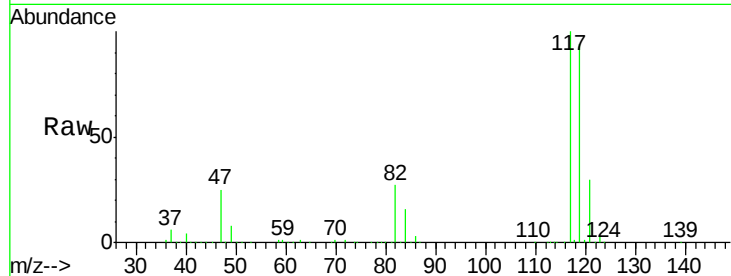
117 100

119 93.7 77.4 116.0

121 29.9 24.9 37.3

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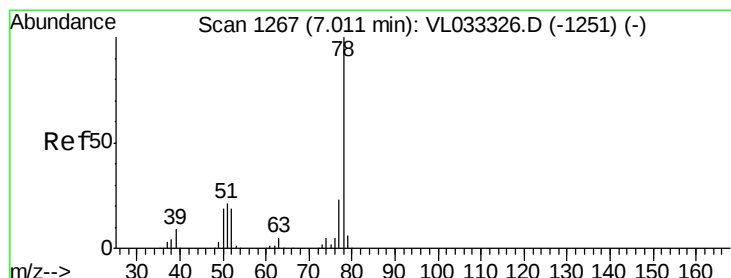
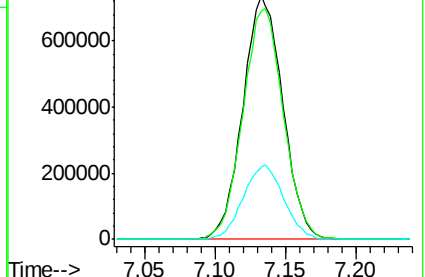
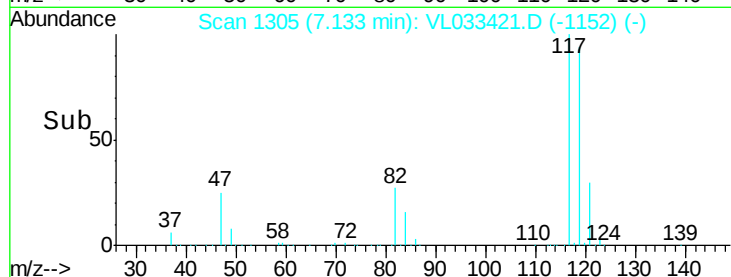
MMDadoda
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.223 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

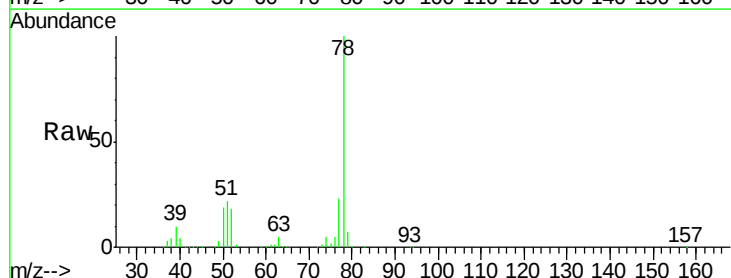
Tgt Ion: 78 Resp: 1757742

Ion Ratio Lower Upper

78 100

77 23.2 18.1 27.1

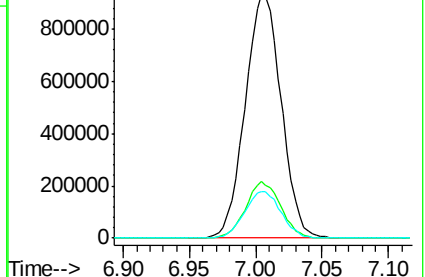
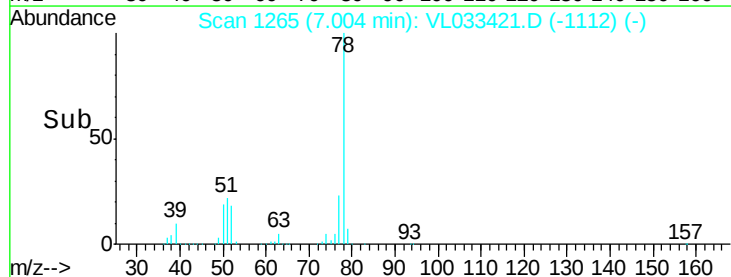
50 19.1 15.2 22.8

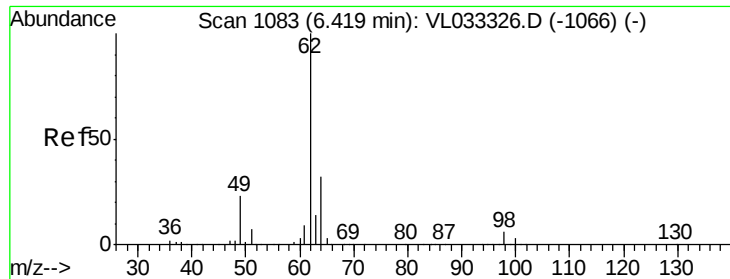


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





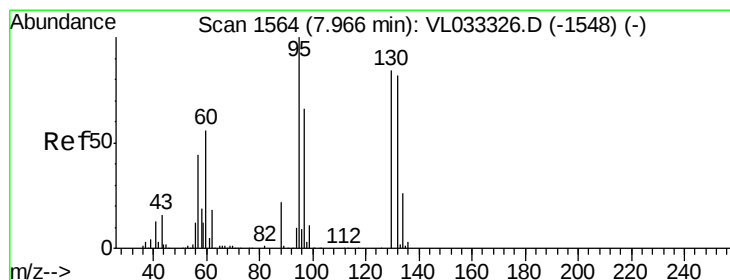
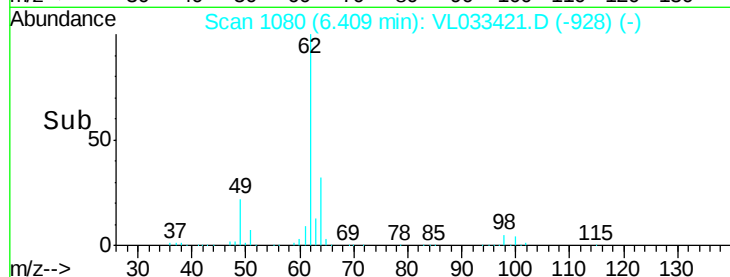
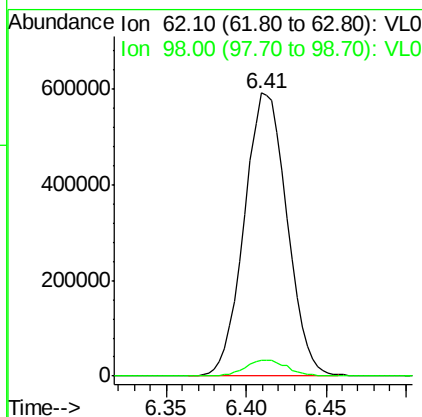
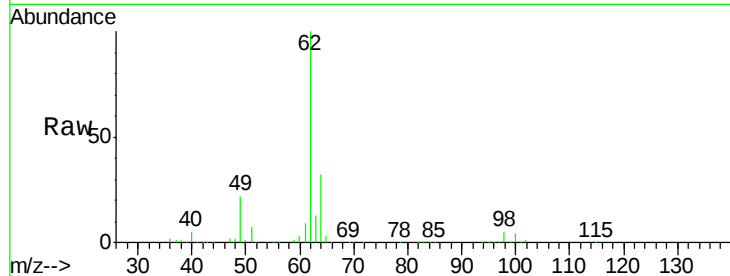
#37
1,2-Dichloroethane
Concen: 9.969 ppbv
RT: 6.41 min Scan# 1080
Delta R.T. -0.01 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 62 Resp: 1083842
Ion Ratio Lower Upper
62 100
98 5.6 4.5 6.7

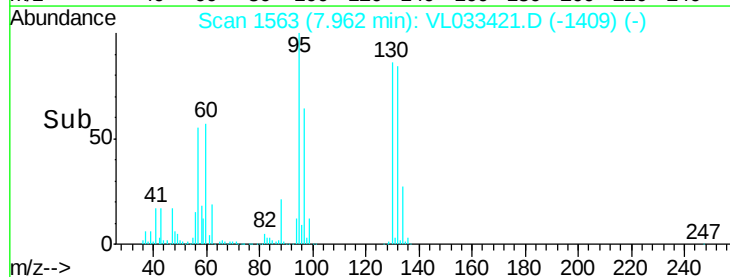
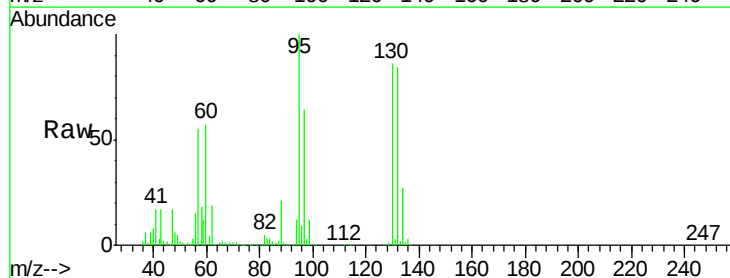
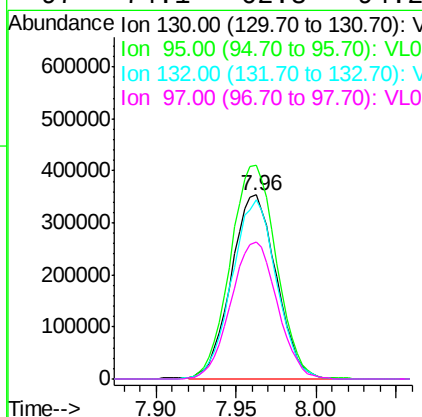
Manual Integrations
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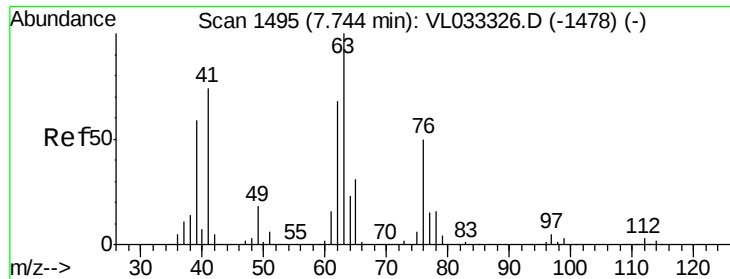
MMDadoda
3/25/2019 8:28:10 AM



#38
Trichloroethene
Concen: 10.446 ppbv
RT: 7.96 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Tgt Ion:130 Resp: 679671
Ion Ratio Lower Upper
130 100
95 115.9 95.2 142.8
132 97.4 77.7 116.5
97 74.1 62.8 94.2





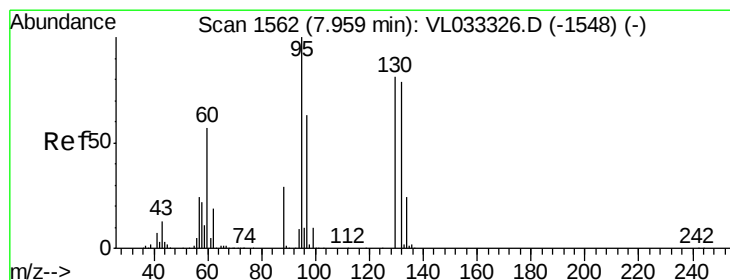
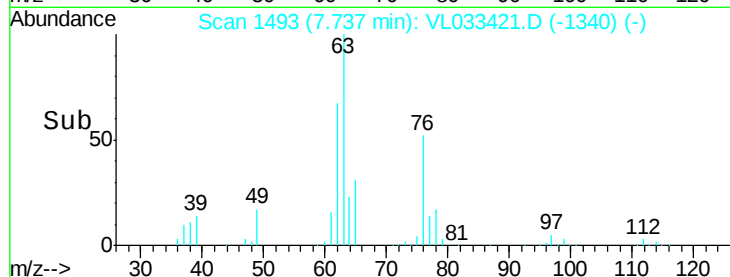
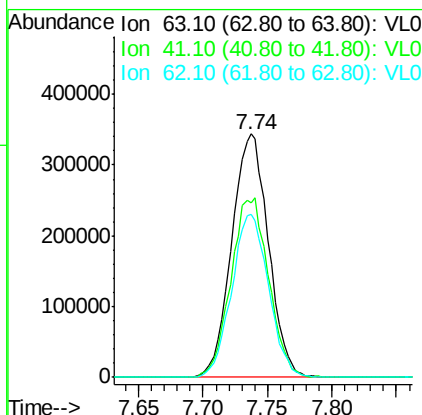
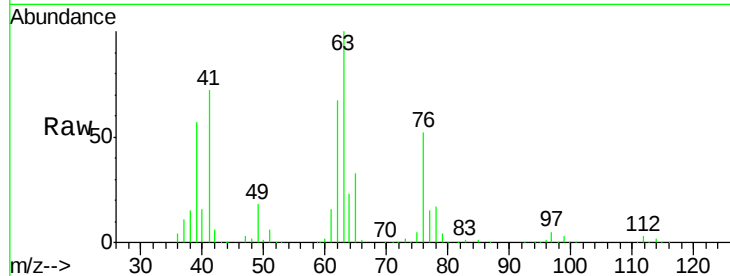
#39
 1,2-Dichloropropane
 Concen: 10.554 ppbv
 RT: 7.74 min Scan# 1493
 Delta R.T. -0.01 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
63	100		
41	71.8	59.5	89.3
62	67.0	54.7	82.1

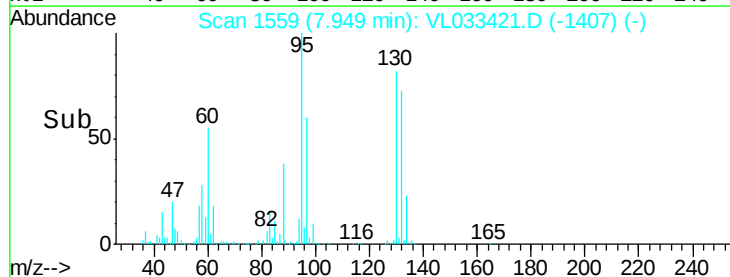
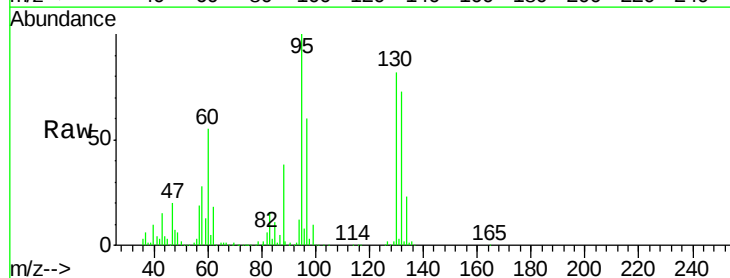
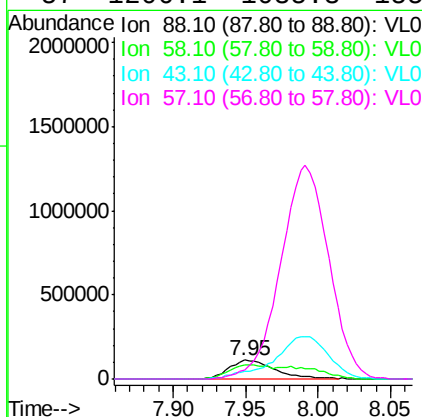
Manual Integrations
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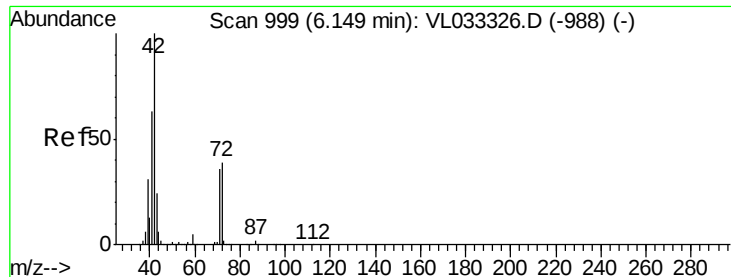
MMDadoda
 3/25/2019 8:28:10 AM



#40
 1,4-Dioxane
 Concen: 10.750 ppbv
 RT: 7.95 min Scan# 1559
 Delta R.T. -0.01 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

Tgt Ion	Ratio	Lower	Upper
88	100		
58	129.3	107.9	161.9
43	270.4	230.8	346.2
57	1206.1	1035.3	1552.9





#41

Tetrahydrofuran

Concen: 10.526 ppbv

RT: 6.14 min Scan# 997

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

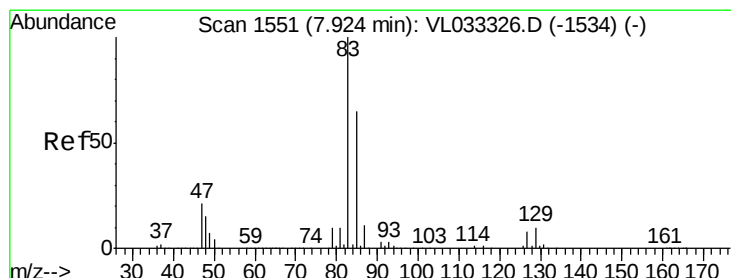
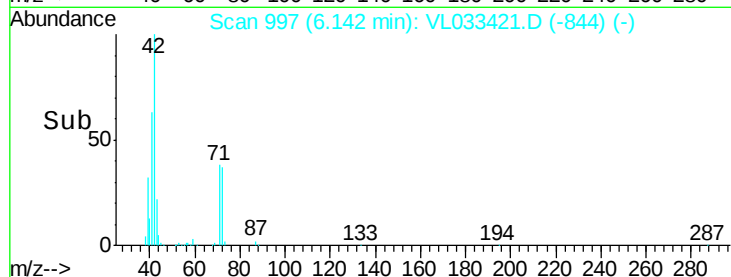
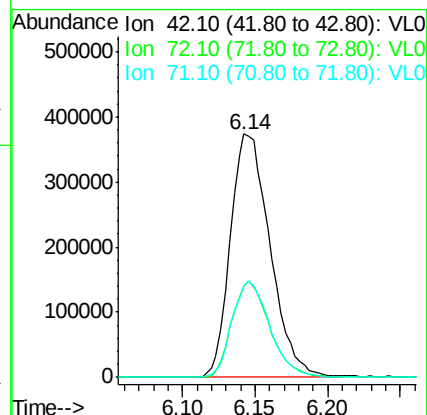
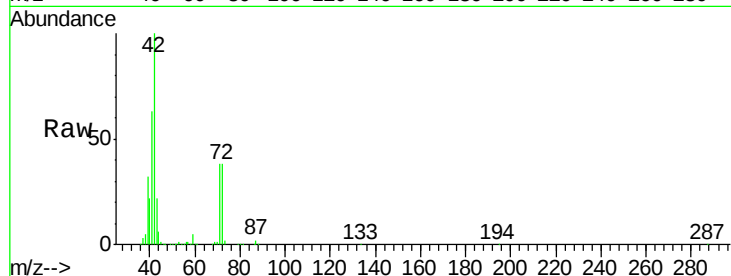
ClientSampleId :

VSTDCCC010

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.9	31.6	47.4
71	38.0	29.9	44.9

Manual Integrations
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3/25/2019 8:28:10 AM



#42

Bromodichloromethane

Concen: 10.608 ppbv

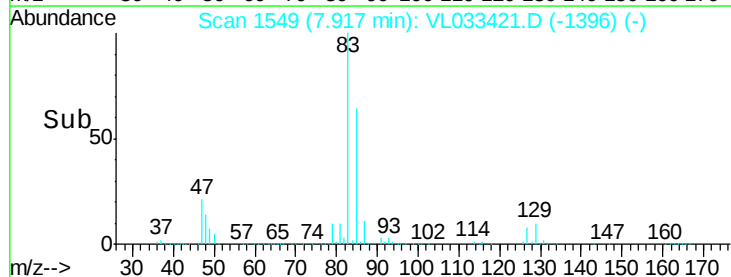
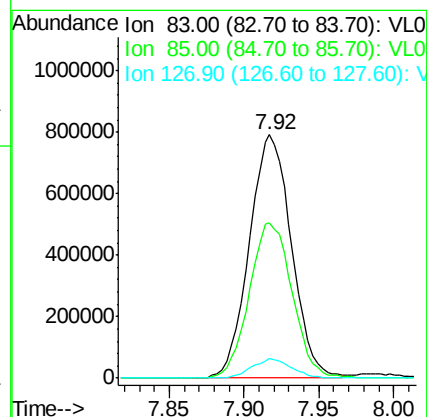
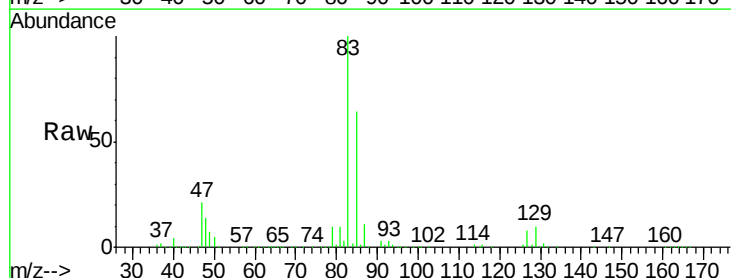
RT: 7.92 min Scan# 1549

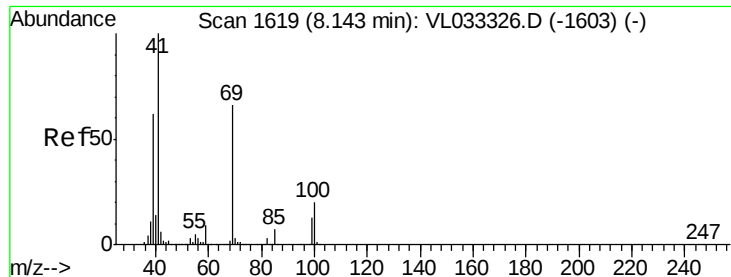
Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.8	77.6
127	8.1	6.2	9.2





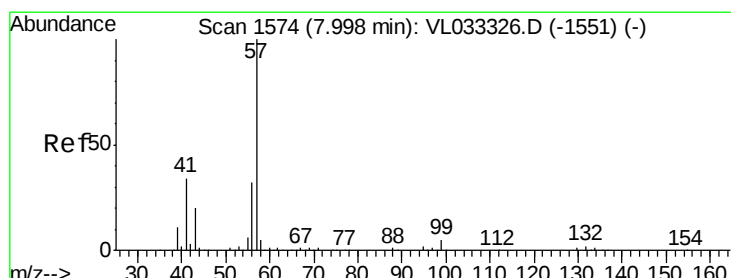
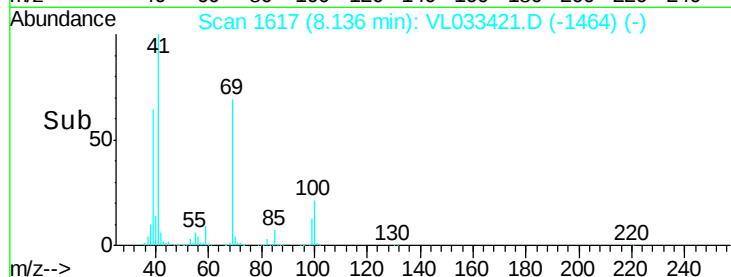
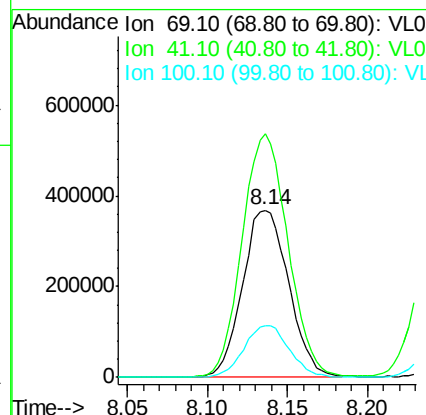
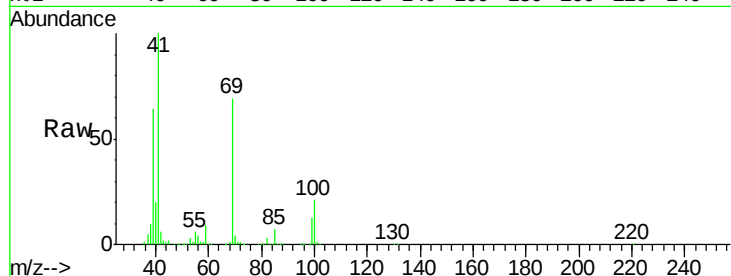
#43
Methyl Methacrylate
Concen: 10.856 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. -0.01 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	144.5	119.5	179.3	
100	30.5	24.4	36.6	

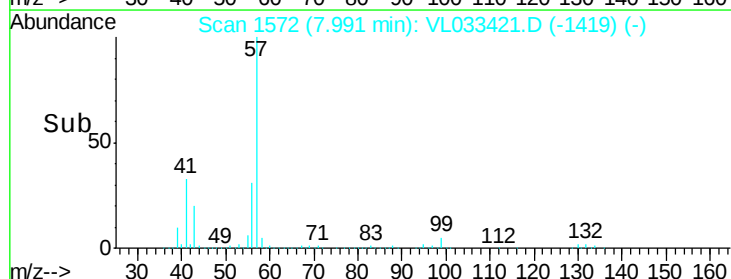
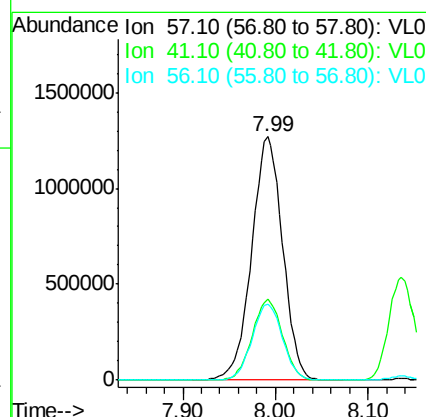
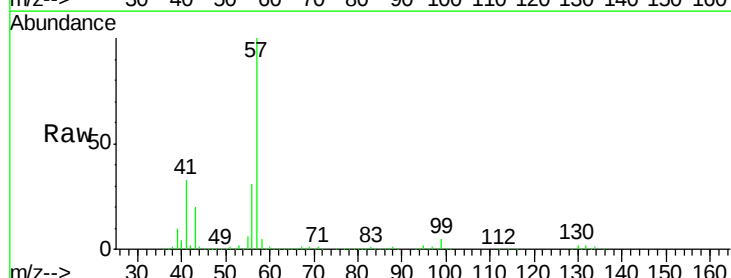
Manual Integrations
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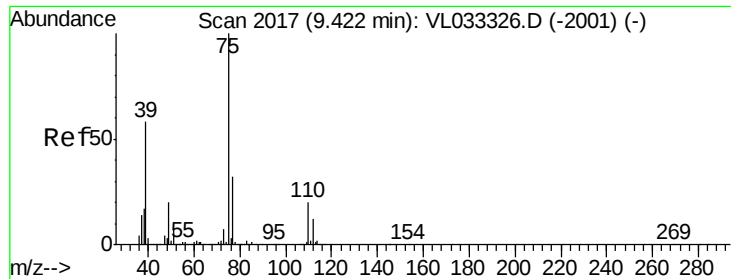
MMDadoda
3/25/2019 8:28:10 AM



#44
2,2,4-Trimethylpentane
Concen: 10.318 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. -0.01 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	32.5	26.0	39.0	
56	30.8	24.6	36.8	





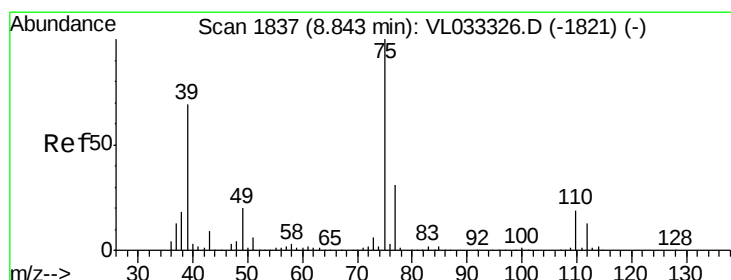
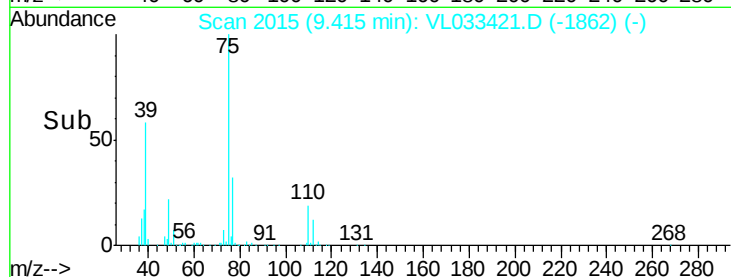
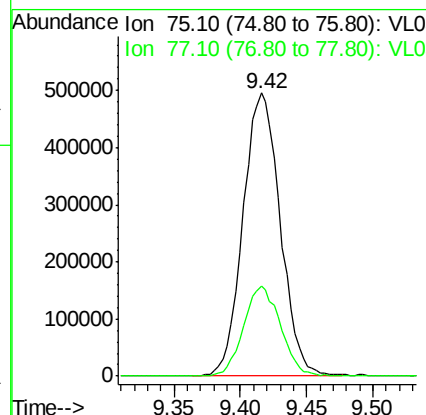
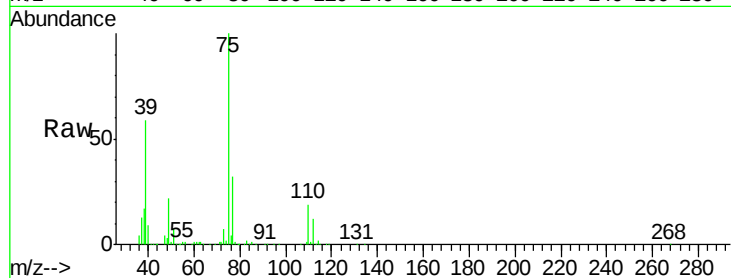
#45
t-1,3-Dichloropropene
Concen: 11.679 ppbv
RT: 9.42 min Scan# 2015
Delta R.T. -0.01 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 75 Resp: 965360
Ion Ratio Lower Upper
75 100
77 32.1 25.5 38.3

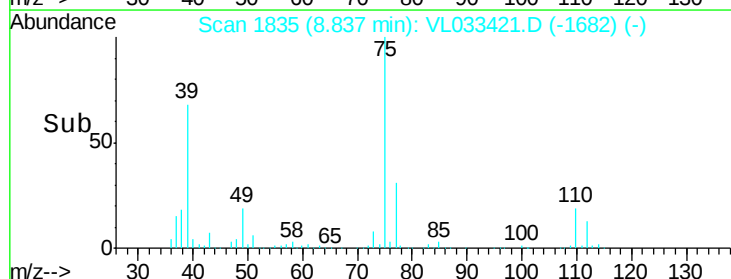
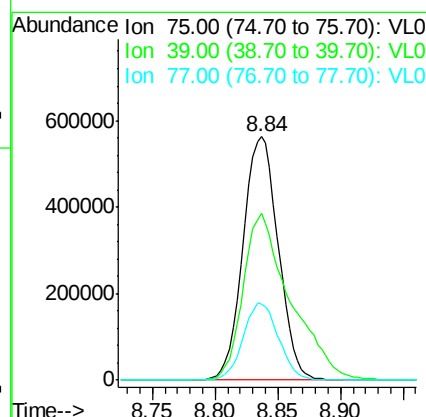
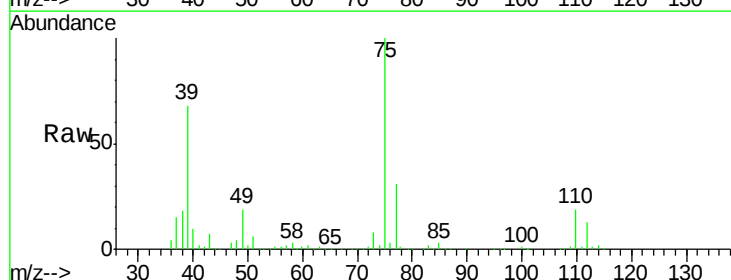
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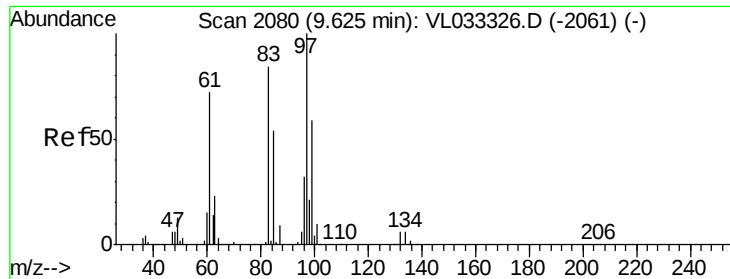
MMDadoda
3/25/2019 8:28:10 AM



#46
cis-1,3-Dichloropropene
Concen: 11.267 ppbv
RT: 8.84 min Scan# 1835
Delta R.T. -0.01 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Tgt Ion: 75 Resp: 1096569
Ion Ratio Lower Upper
75 100
39 68.3 55.0 82.6
77 31.4 24.5 36.7





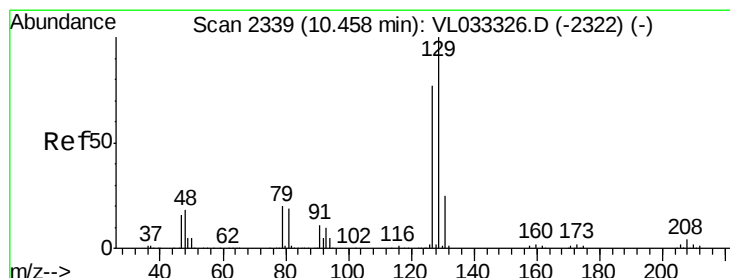
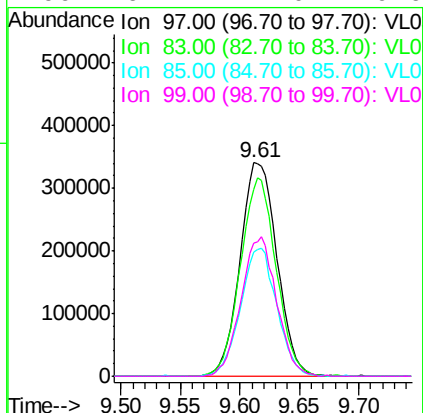
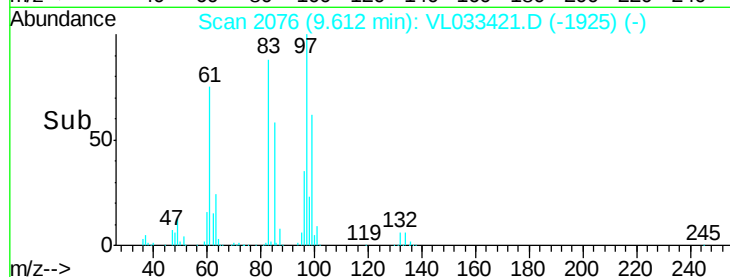
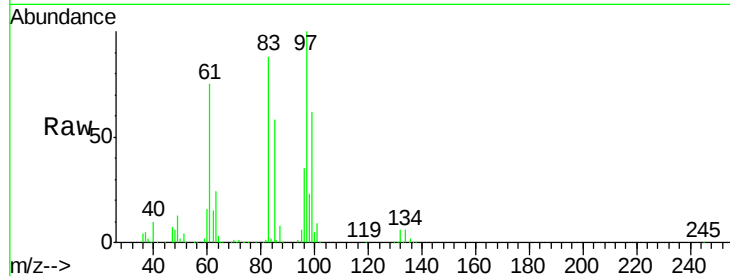
#47
 1,1,2-Trichloroethane
 Concen: 10.301 ppbv
 RT: 9.61 min Scan# 2076
 Delta R.T. -0.01 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	87.7	67.4	101.0	
85	58.4	43.0	64.4	
99	62.4	47.0	70.6	

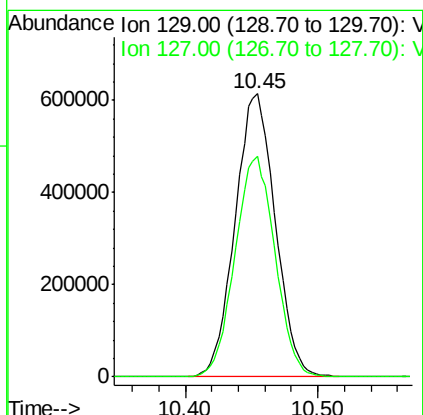
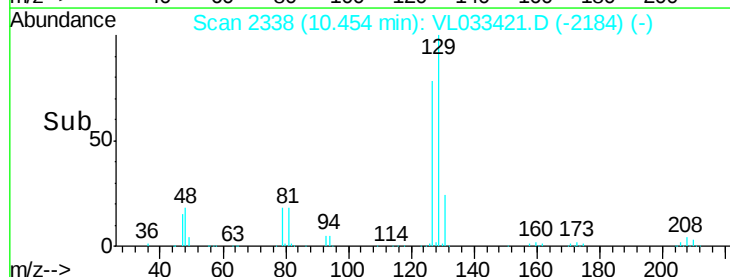
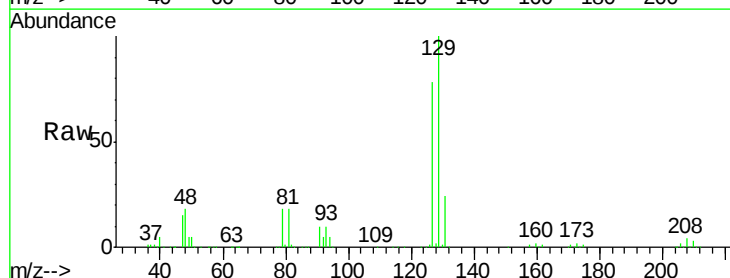
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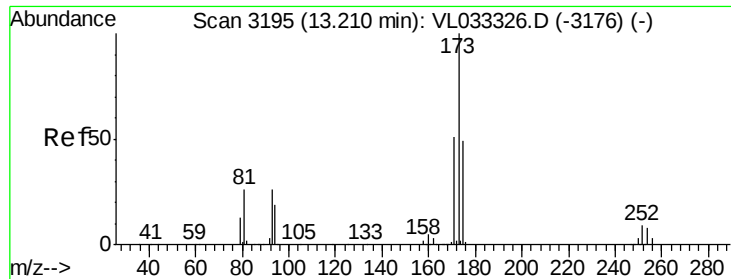
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#48
 Dibromochloromethane
 Concen: 10.842 ppbv
 RT: 10.45 min Scan# 2338
 Delta R.T. -0.00 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	77.8	38.9	116.6	





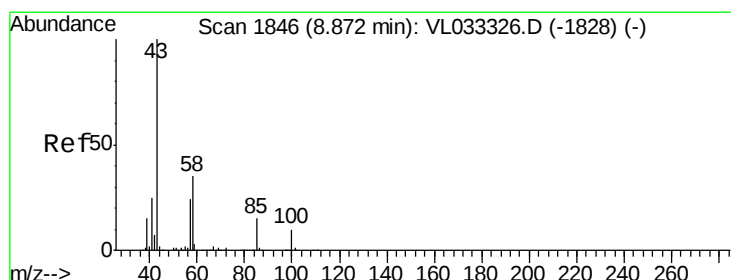
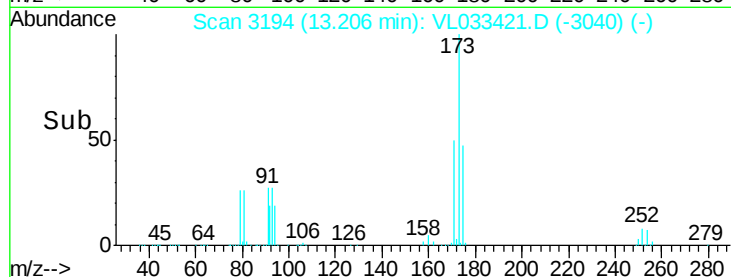
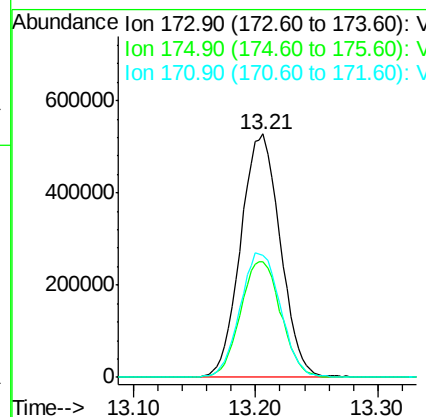
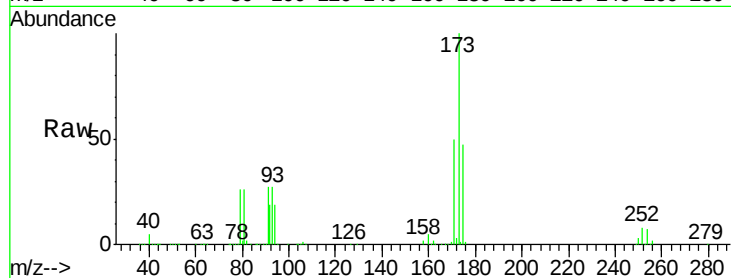
#49
Bromoform
Concen: 10.469 ppbv
RT: 13.21 min Scan# 3194
Delta R.T. -0.00 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:173 Resp: 1184930
Ion Ratio Lower Upper
173 100
175 48.6 39.0 58.6
171 52.3 41.7 62.5

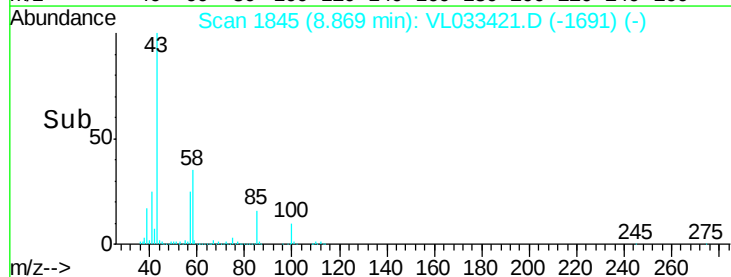
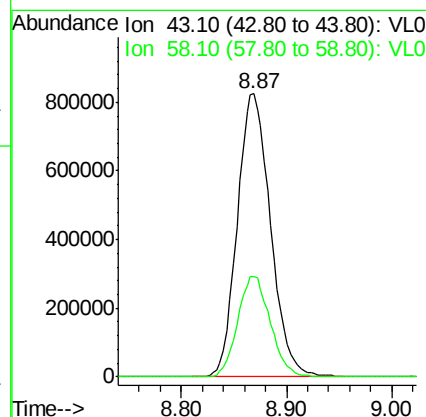
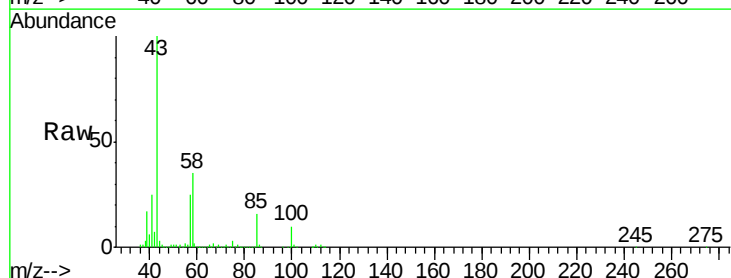
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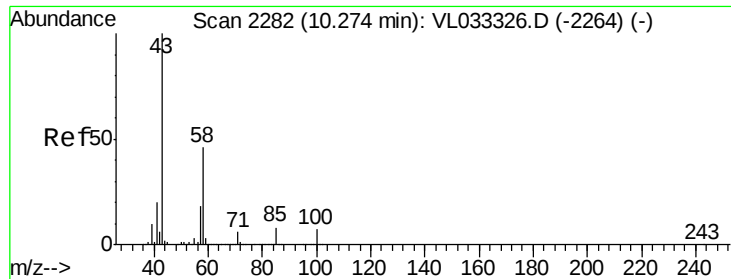
MMDadoda
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#50
4-Methyl-2-Pentanone
Concen: 10.093 ppbv
RT: 8.87 min Scan# 1845
Delta R.T. -0.00 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Tgt Ion: 43 Resp: 1798783
Ion Ratio Lower Upper
43 100
58 35.1 28.4 42.6





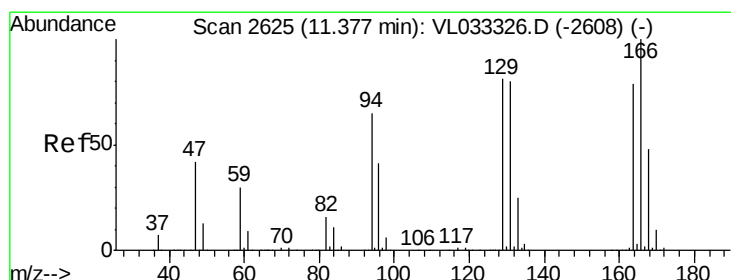
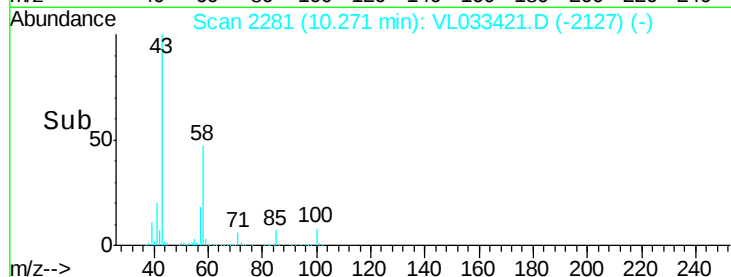
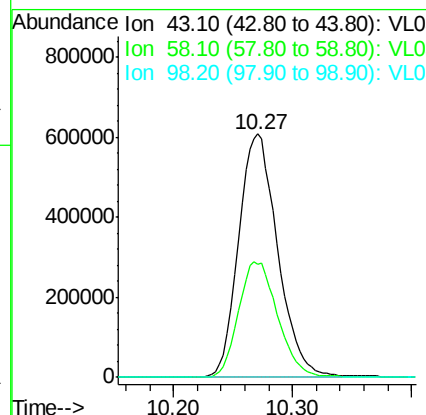
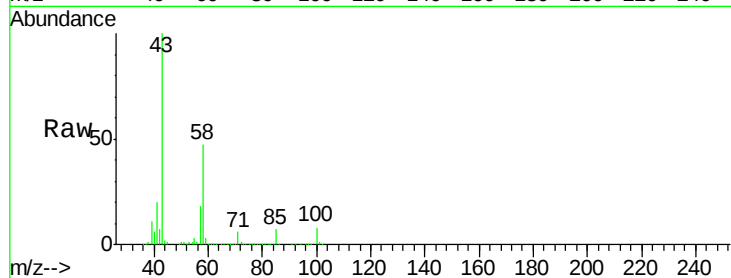
#51
2-Hexanone
Concen: 10.034 ppbv
RT: 10.27 min Scan# 2281
Delta R.T. -0.00 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.0	38.0	57.0
98	0.2	0.1	0.1#

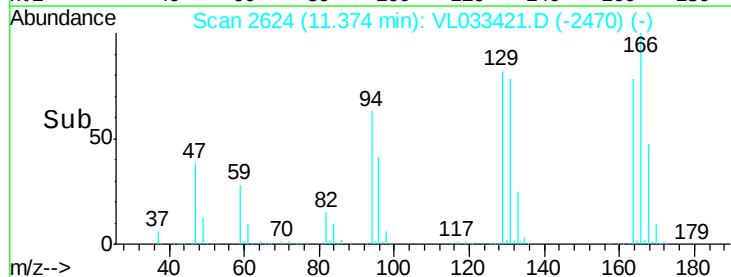
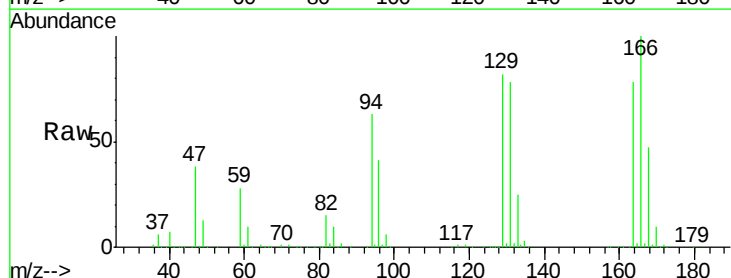
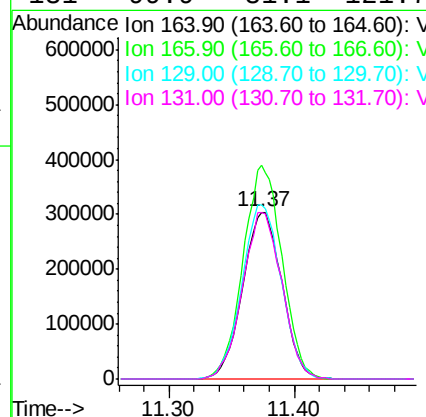
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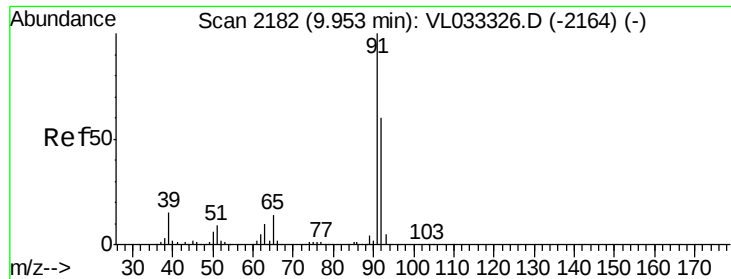
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#52
Tetrachloroethene
Concen: 9.205 ppbv
RT: 11.37 min Scan# 2624
Delta R.T. -0.00 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.0	101.5	152.3
129	104.6	82.2	123.2
131	99.9	81.1	121.7





#53

Toluene

Concen: 10.740 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.00 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2098406

Ion Ratio Lower Upper

91 100

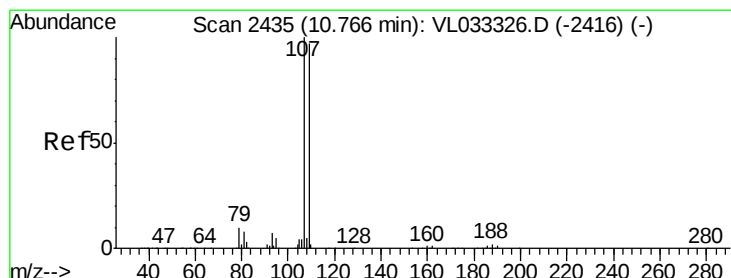
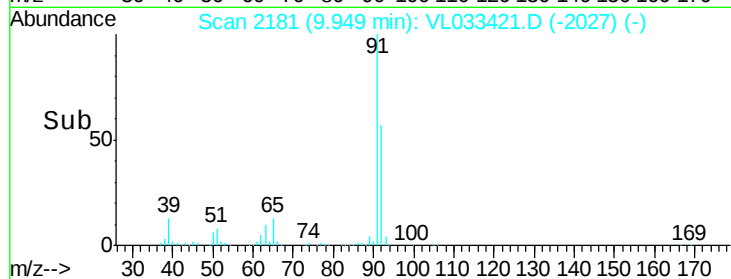
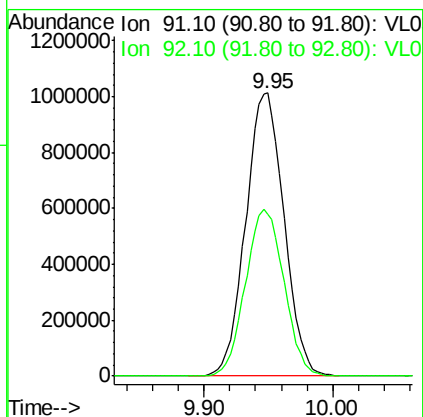
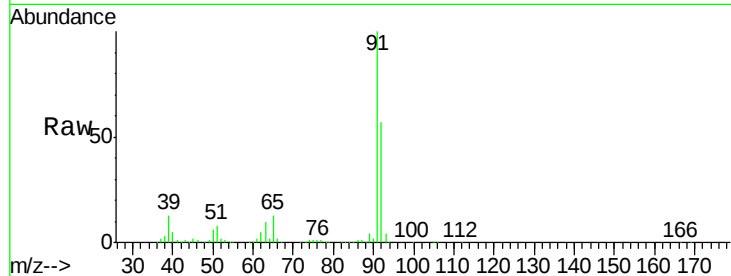
92 59.4 47.4 71.0

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#54

1,2-Dibromoethane

Concen: 9.694 ppbv

RT: 10.76 min Scan# 2433

Delta R.T. -0.01 min

Lab File: VL033421.D

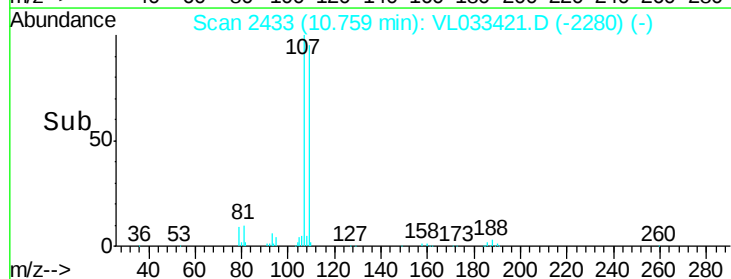
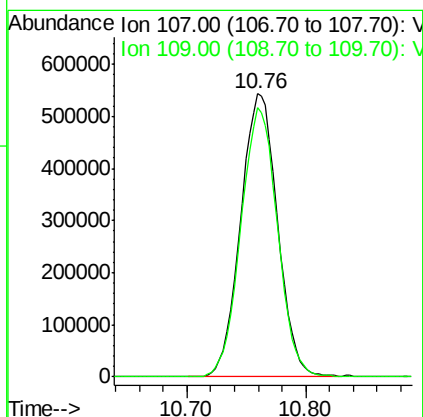
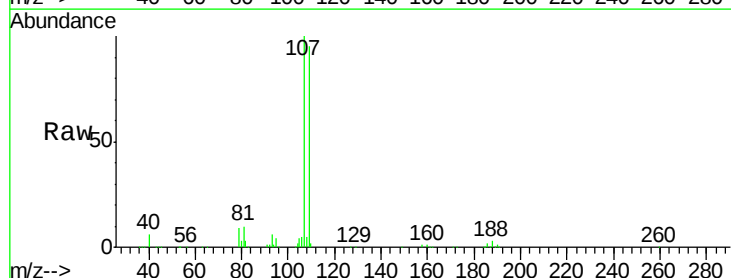
Acq: 21 Mar 2019 17:39

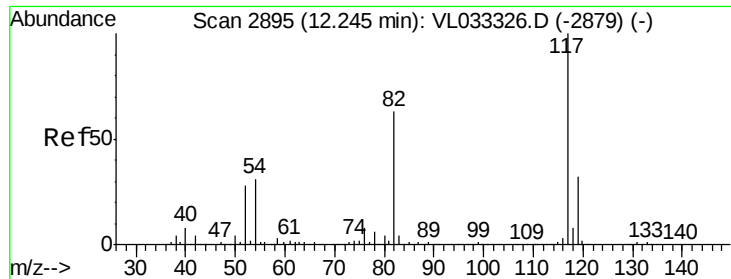
Tgt Ion: 107 Resp: 1165915

Ion Ratio Lower Upper

107 100

109 95.2 77.2 115.8





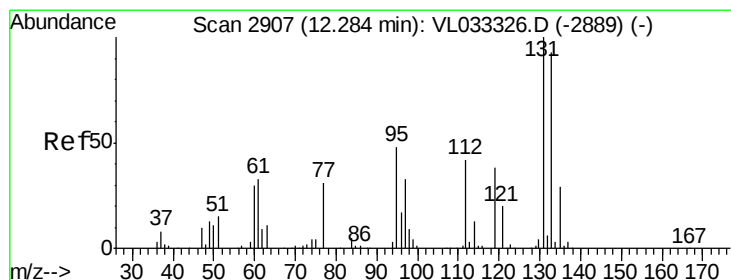
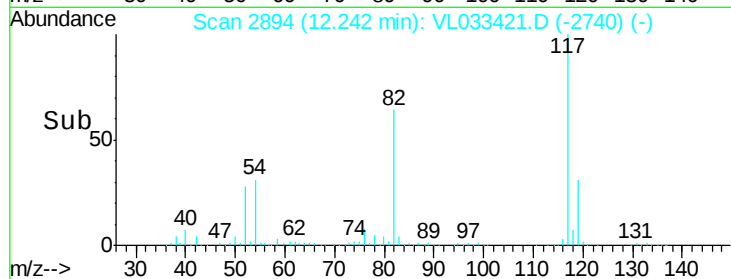
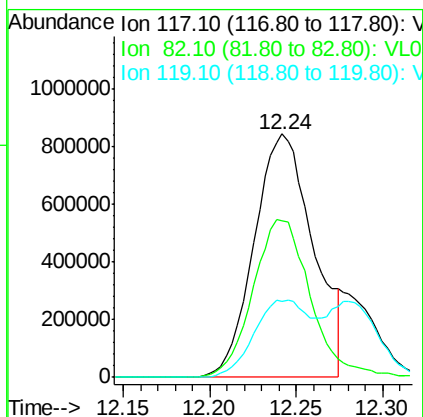
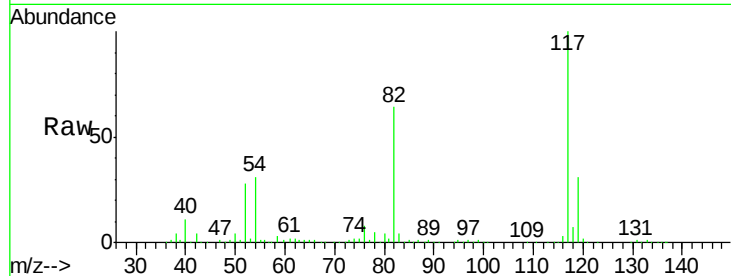
#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.24 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion:117 Resp: 1998288
Ion Ratio Lower Upper
117 100
82 63.7 53.4 80.2
119 31.8 27.3 40.9

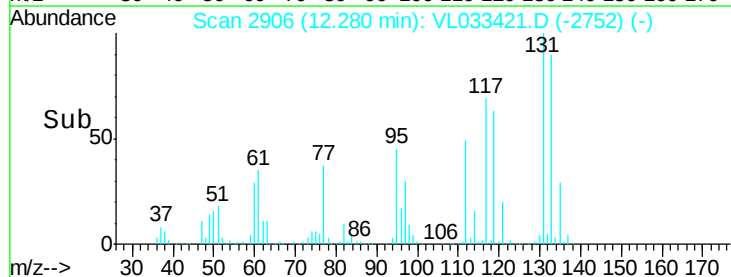
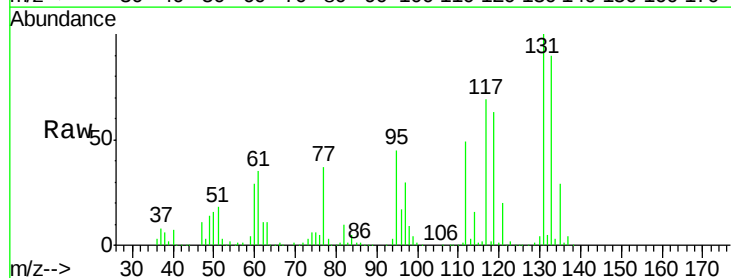
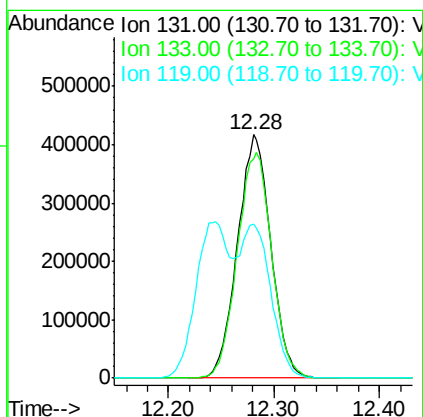
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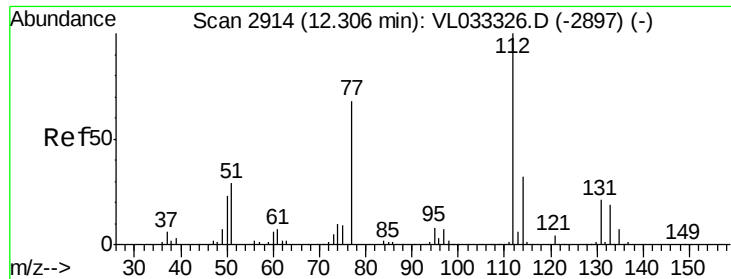
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#56
1,1,1,2-Tetrachloroethane
Concen: 10.225 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. -0.00 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Tgt Ion:131 Resp: 913982
Ion Ratio Lower Upper
131 100
133 96.2 76.7 115.1
119 57.1 40.3 60.5





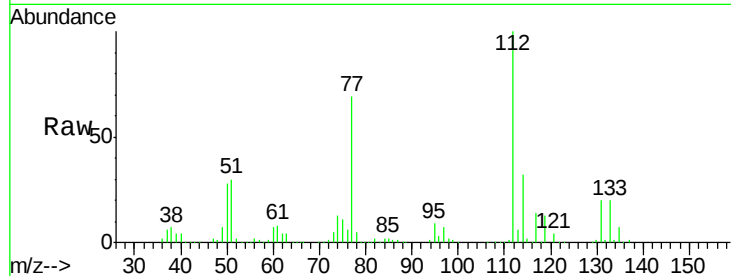
#57
Chlorobenzene
Concen: 9.675 ppbv
RT: 12.30 min Scan# 2913
Delta R.T. -0.00 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

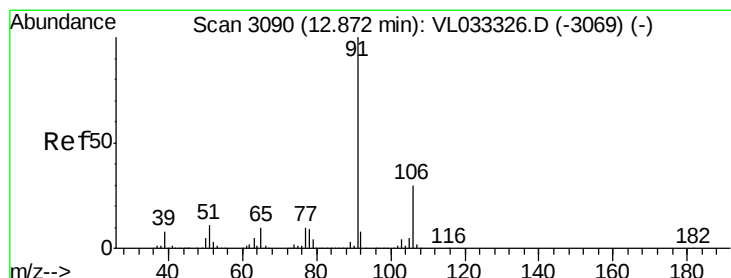
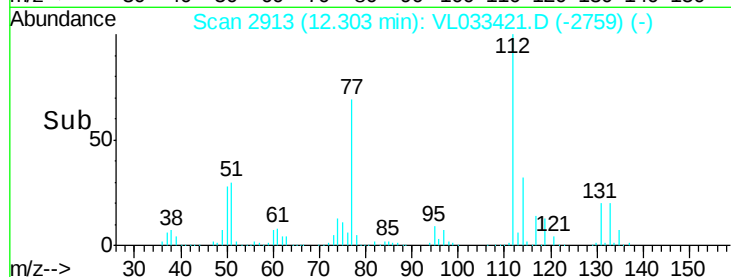
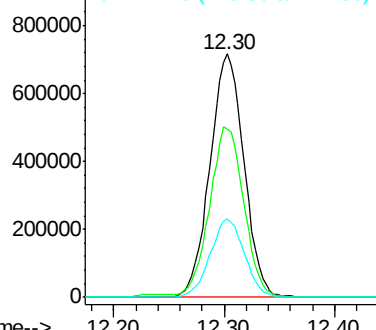
Tot Ion	Ratio	Lower	Upper
112	100		
77	69.0	55.8	83.6
114	32.1	28.6	35.0

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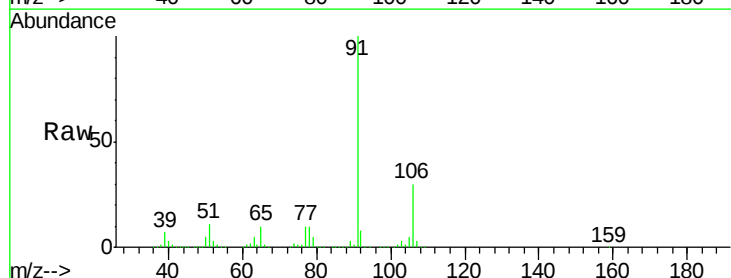


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

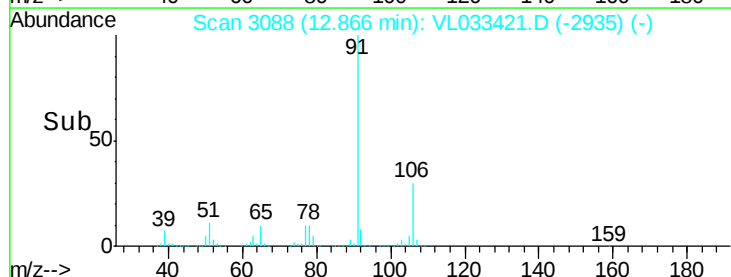
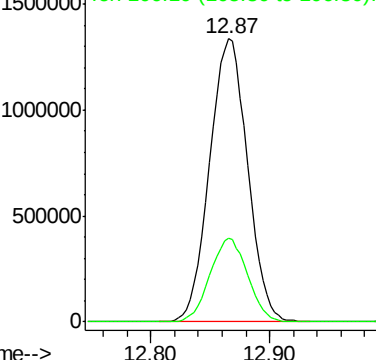


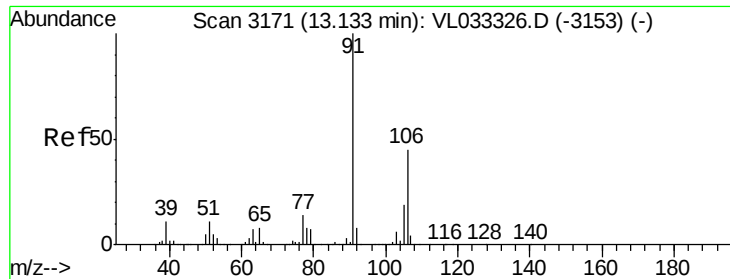
#58
Ethyl Benzene
Concen: 10.438 ppbv
RT: 12.87 min Scan# 3088
Delta R.T. -0.01 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.8	24.2	36.2



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





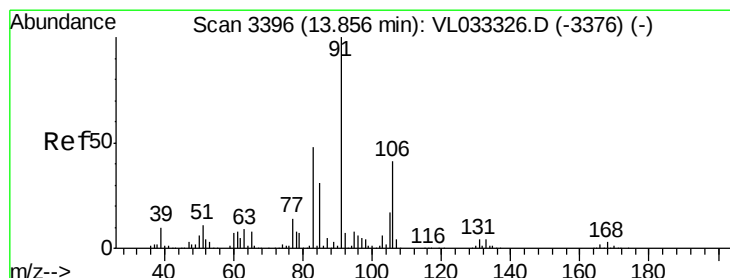
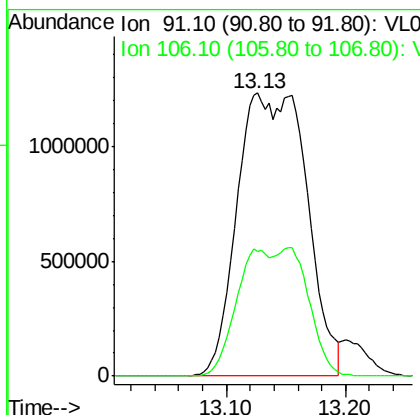
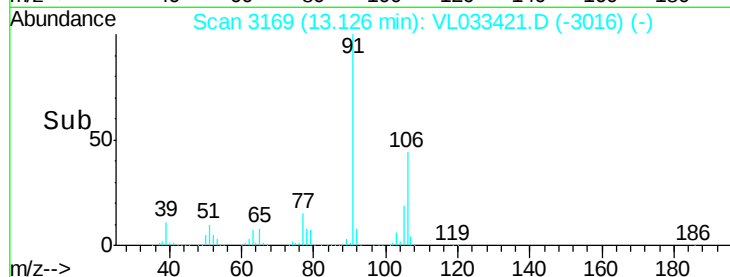
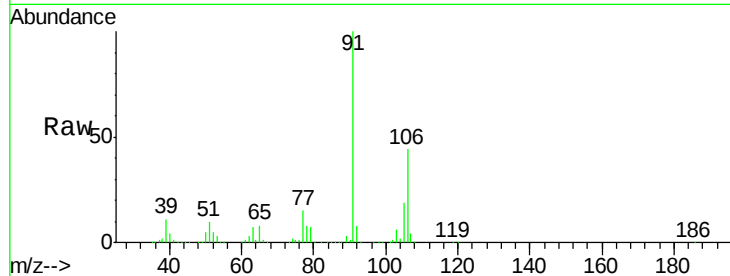
#59
m/p-Xylene
Concen: 20.436 ppbv m
RT: 13.13 min Scan# 3169
Delta R.T. -0.01 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 91 Resp: 4964574
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

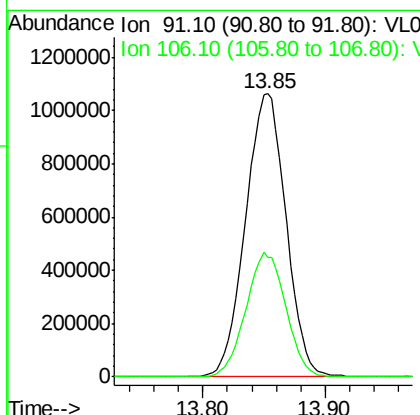
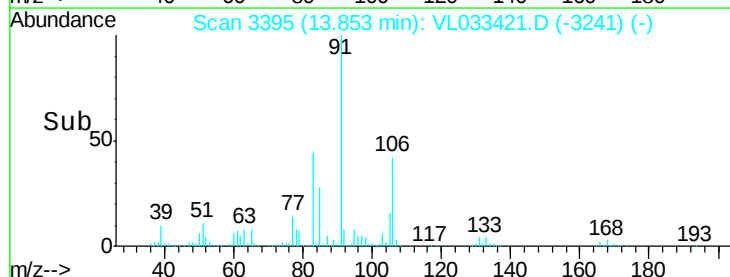
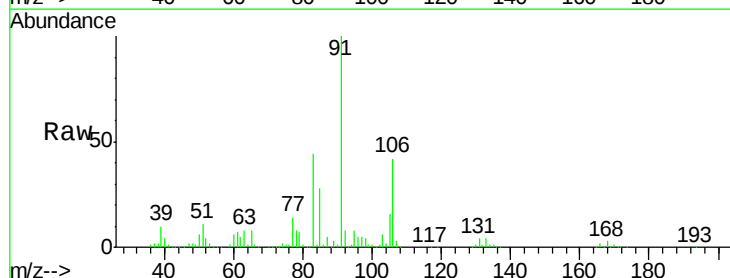
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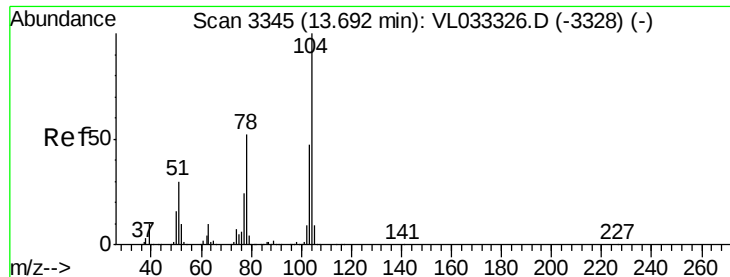
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#60
o-Xylene
Concen: 10.268 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. -0.00 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Tgt Ion: 91 Resp: 2433471
Ion Ratio Lower Upper
91 100
106 43.3 21.3 63.9





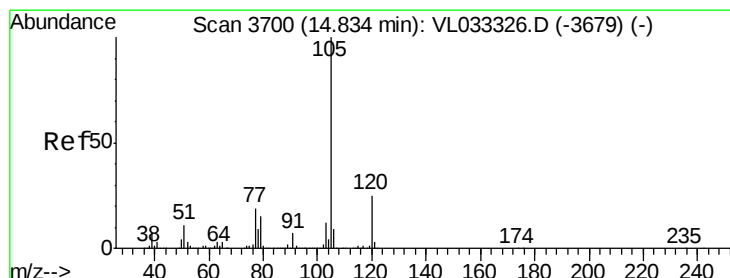
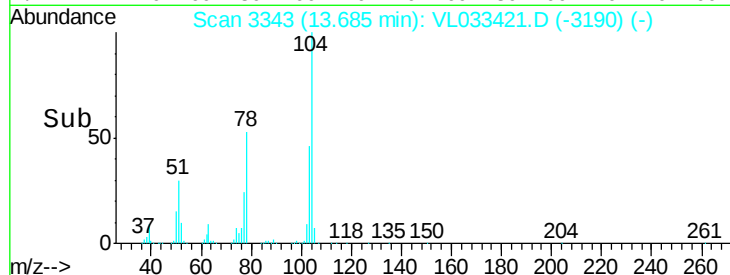
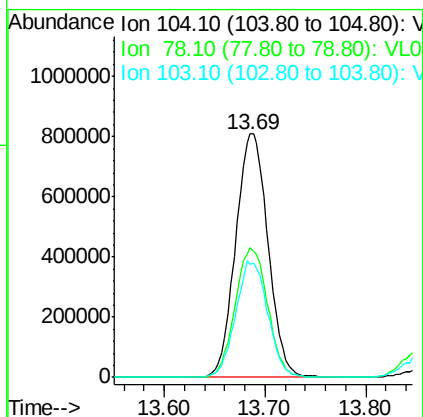
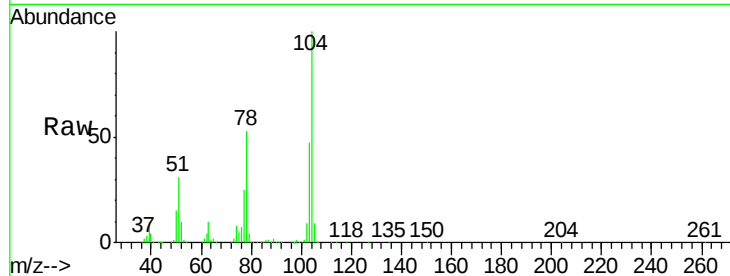
#61
Stvrene
Concen: 10.844 ppbv
RT: 13.69 min Scan# 3343
Delta R.T. -0.01 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Instrument :
MSVOA_L
ClientSampled :
VSTDCCC010

Tot Ion	Ratio	Lower	Upper
104	100		
78	53.5	42.7	64.1
103	47.3	38.0	57.0

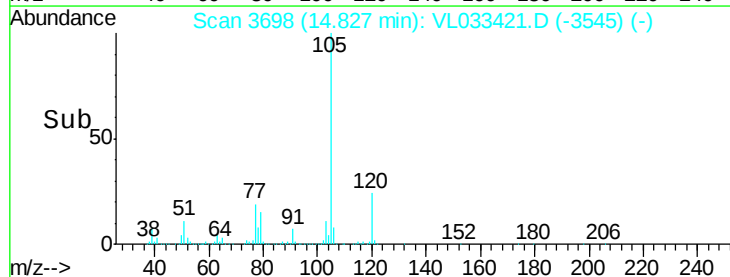
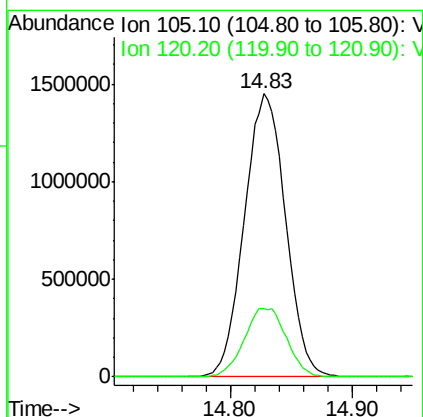
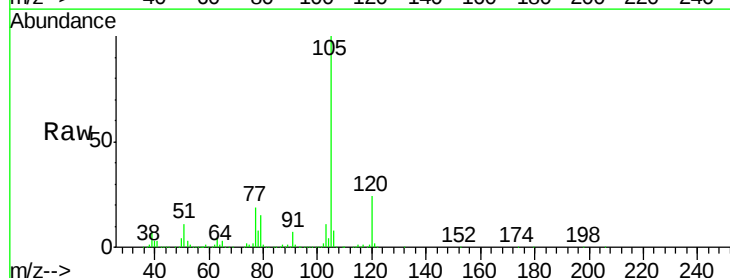
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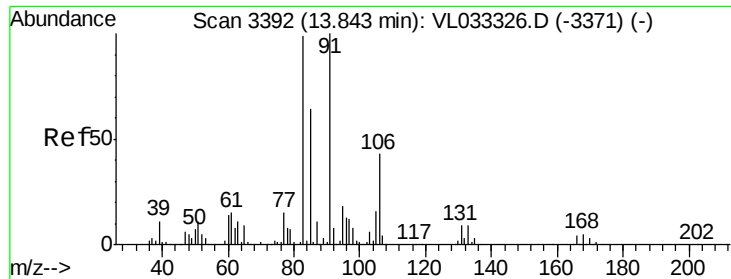
MMDadoda
3/25/2019 8:28:10 AM



#62
Isopropylbenzene
Concen: 10.270 ppbv
RT: 14.83 min Scan# 3698
Delta R.T. -0.01 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.0	19.9	29.9





#63

1,1,2,2-Tetrachloroethane

Concen: 9.770 ppbv

RT: 13.84 min Scan# 3390

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 83 Resp: 1673936

Ion Ratio Lower Upper

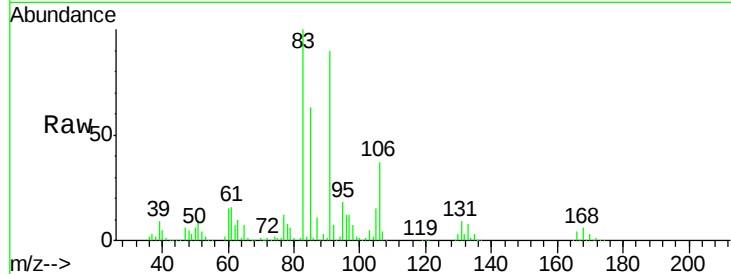
83 100

131 9.3 4.7 14.0

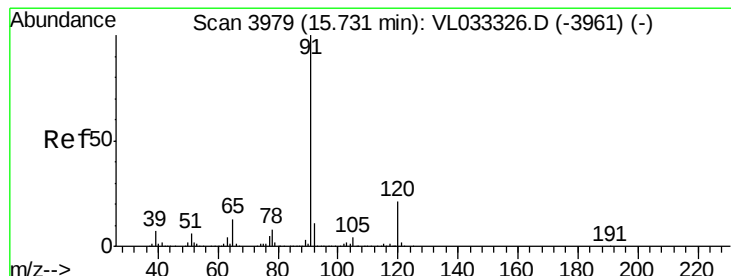
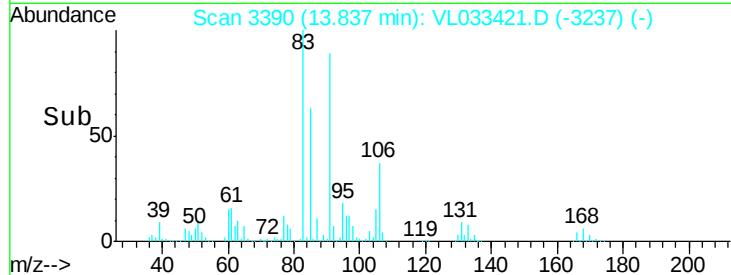
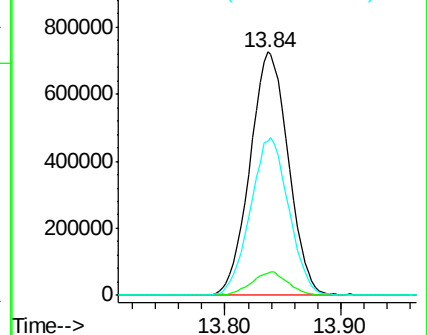
85 64.7 32.5 97.4

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



#64

n-propylbenzene

Concen: 10.227 ppbv

RT: 15.73 min Scan# 3978

Delta R.T. -0.00 min

Lab File: VL033421.D

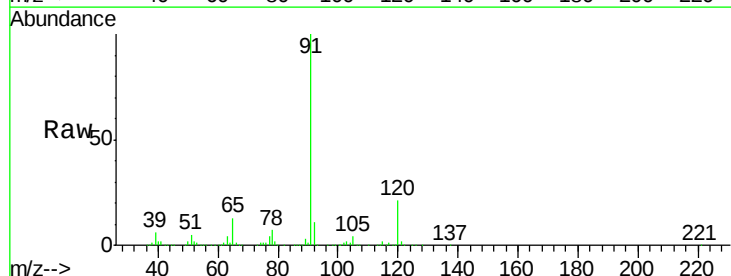
Acq: 21 Mar 2019 17:39

Tgt Ion:120 Resp: 852660

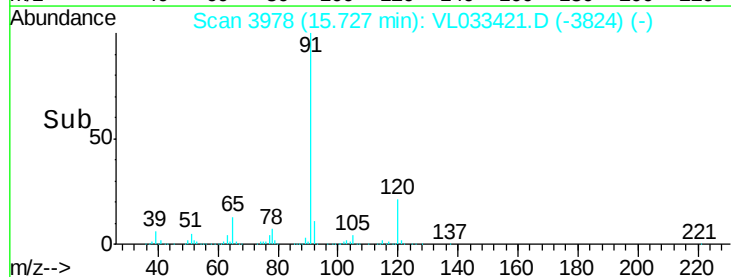
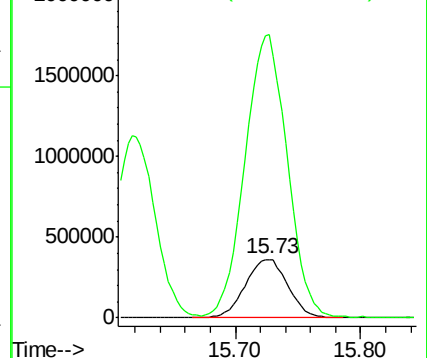
Ion Ratio Lower Upper

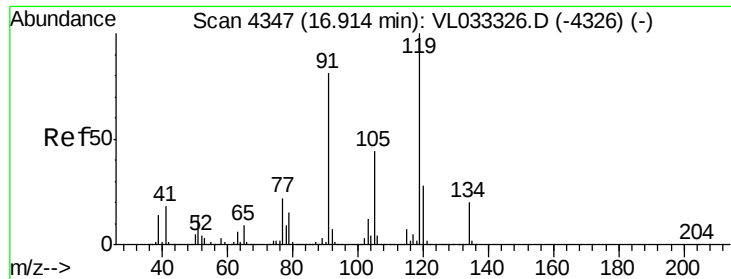
120 100

91 484.0 389.8 584.6



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





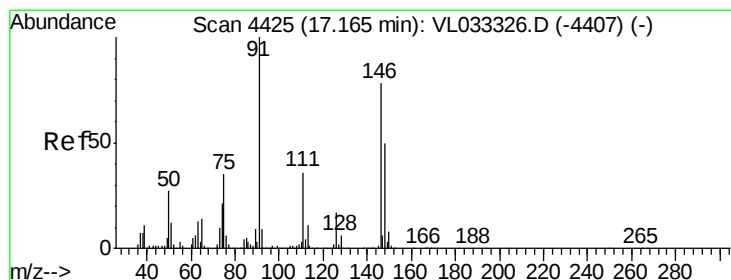
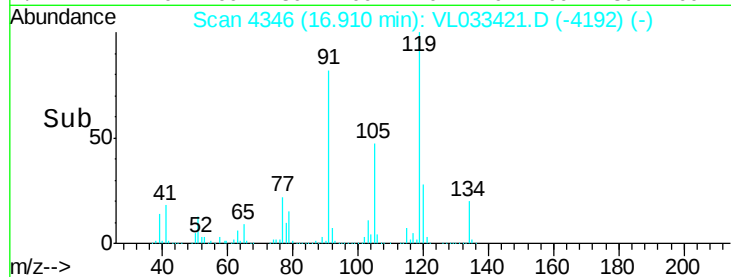
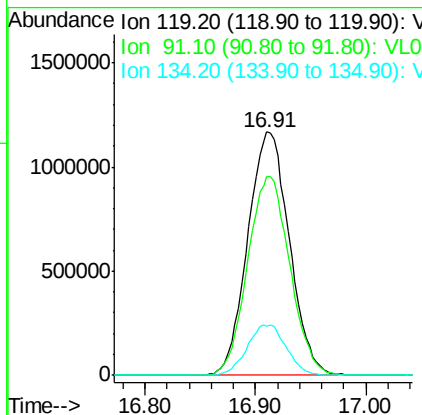
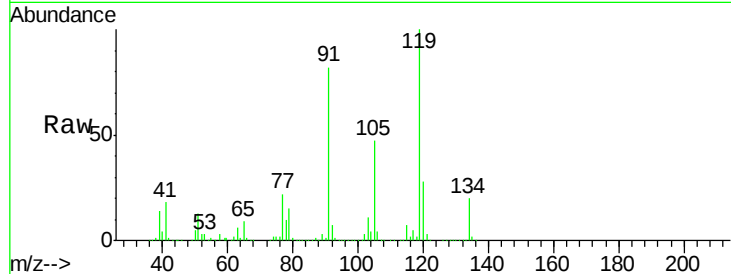
#65
tert-Butylbenzene
Concen: 10.282 ppbv
RT: 16.91 min Scan# 4346
Delta R.T. -0.00 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010

Tot Ion: 119 Resp: 3050201
Ion Ratio Lower Upper
119 100
91 83.1 67.2 100.8
134 19.6 15.4 23.2

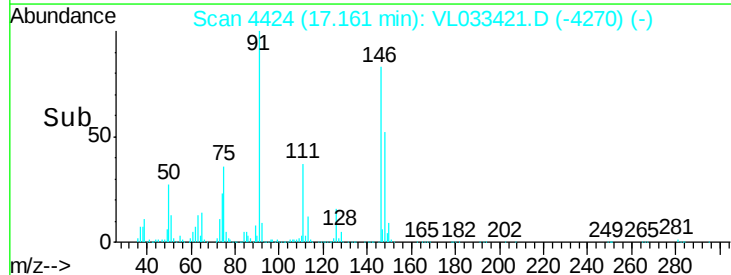
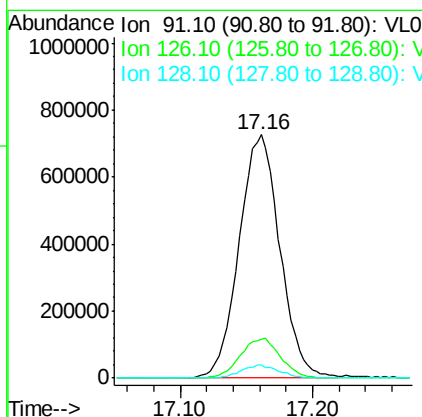
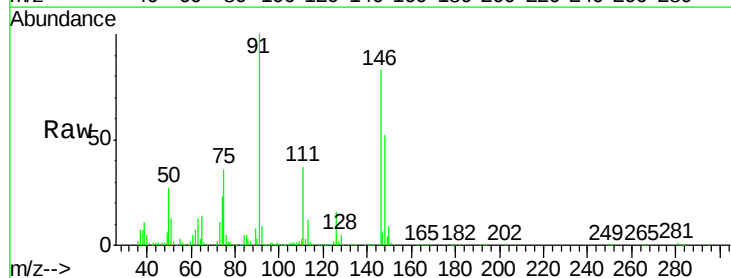
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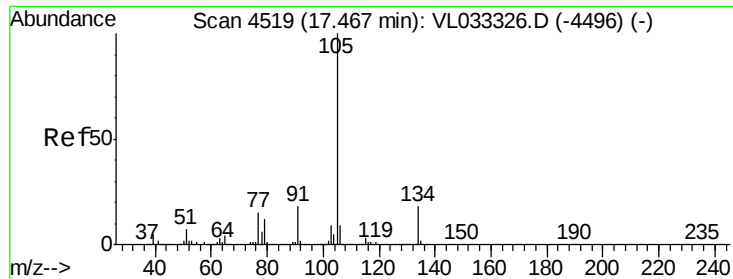
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#66
Benzyl Chloride
Concen: 12.659 ppbv
RT: 17.16 min Scan# 4424
Delta R.T. -0.00 min
Lab File: VL033421.D
Acq: 21 Mar 2019 17:39

Tgt Ion: 91 Resp: 1551753
Ion Ratio Lower Upper
91 100
126 16.2 13.2 19.8
128 5.1 4.2 6.4





#67

sec-Butylbenzene

Concen: 10.295 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 105 Resp: 4327361

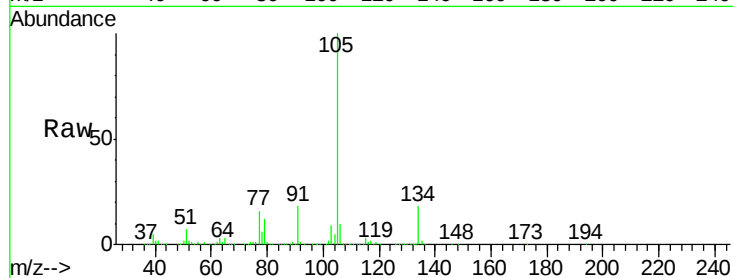
Ion Ratio Lower Upper

105 100

134 17.9 14.2 21.4

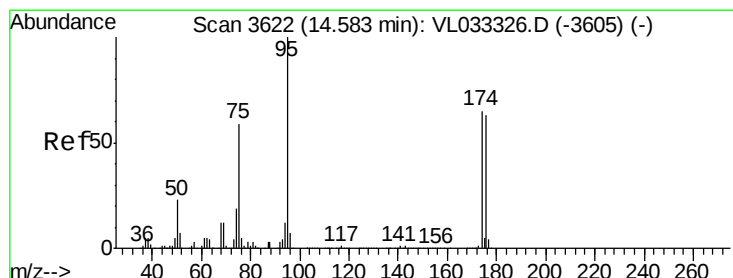
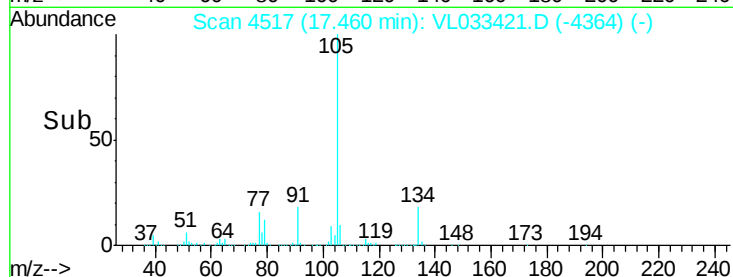
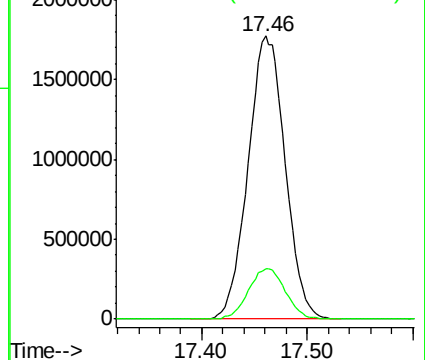
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.179 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.00 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

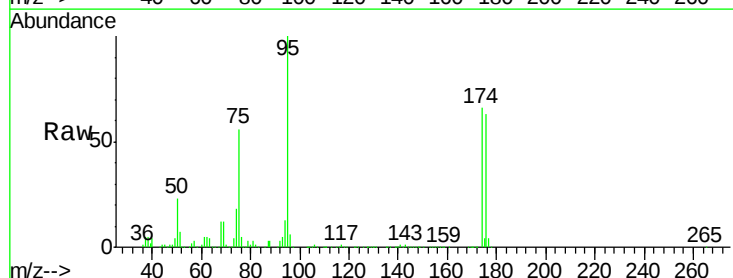
Tgt Ion: 95 Resp: 1507221

Ion Ratio Lower Upper

95 100

174 65.7 51.5 77.3

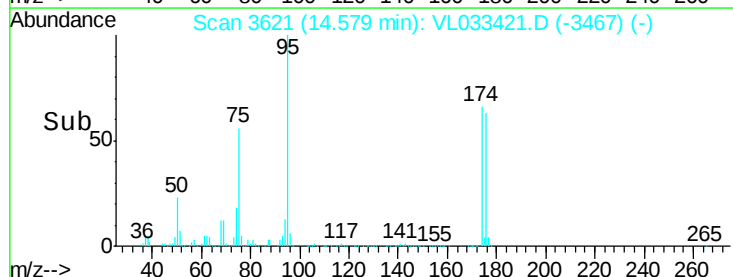
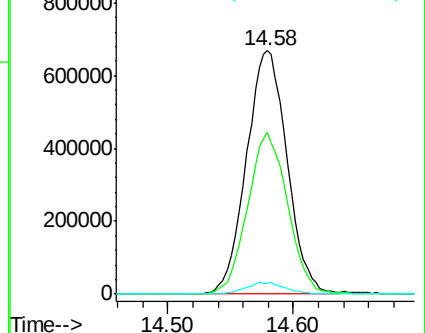
175 4.8 3.8 5.6

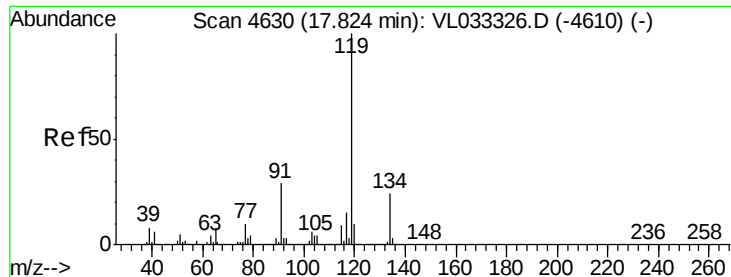


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





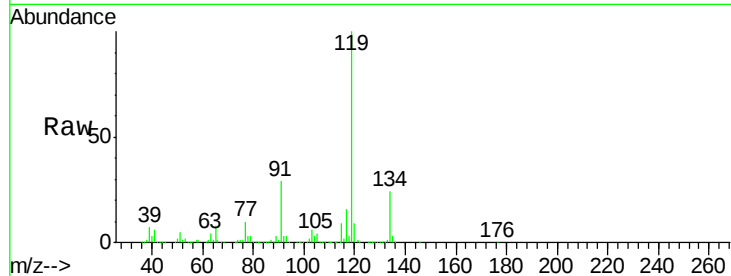
#69
 p-Isopropyltoluene
 Concen: 10.427 ppbv
 RT: 17.82 min Scan# 4629
 Delta R.T. -0.00 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

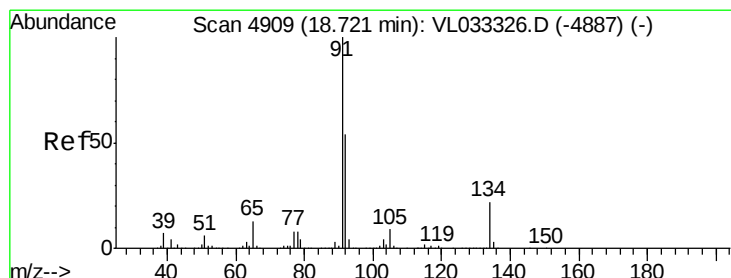
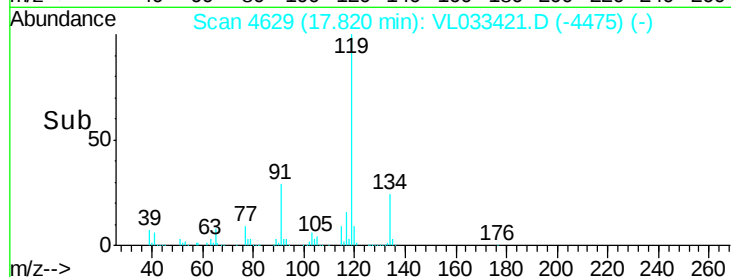
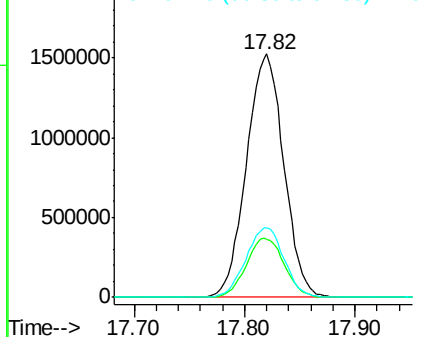
Tot Ion: 119 Resp: 3580843
 Ion Ratio Lower Upper
 119 100
 134 24.7 19.8 29.6
 91 29.3 23.4 35.2

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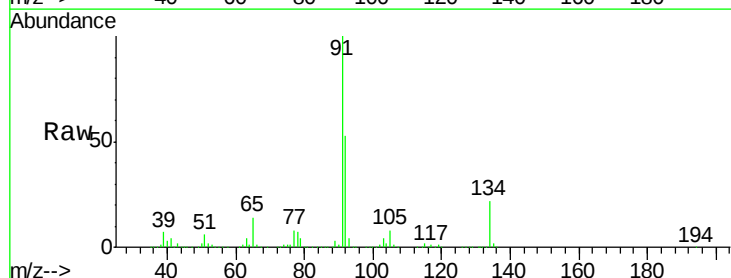


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

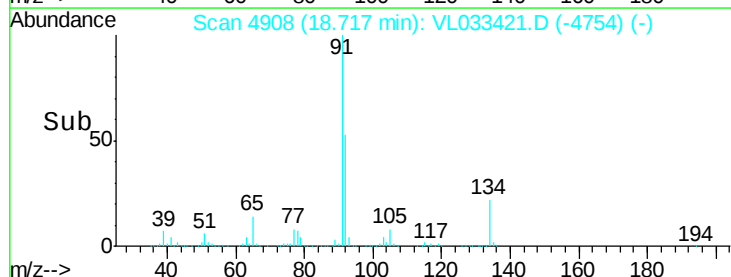
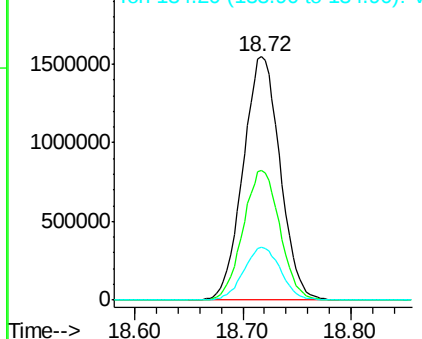


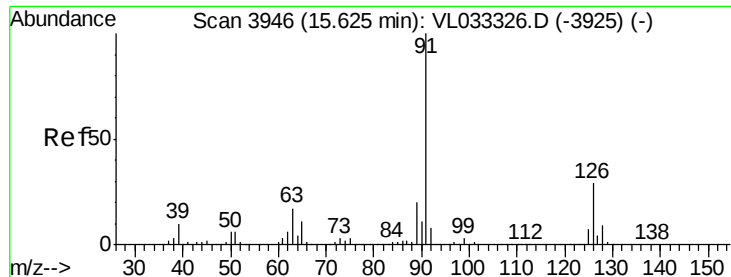
#70
 n-Butylbenzene
 Concen: 10.044 ppbv
 RT: 18.72 min Scan# 4908
 Delta R.T. -0.00 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

Tgt Ion: 91 Resp: 3677959
 Ion Ratio Lower Upper
 91 100
 92 53.1 42.8 64.2
 134 21.8 17.4 26.0



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 10.172 ppbv

RT: 15.62 min Scan# 3944

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion: 91 Resp: 2608981

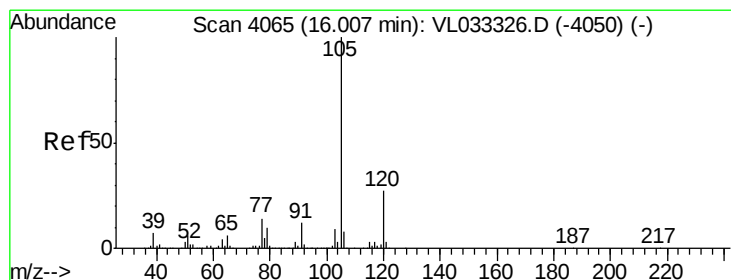
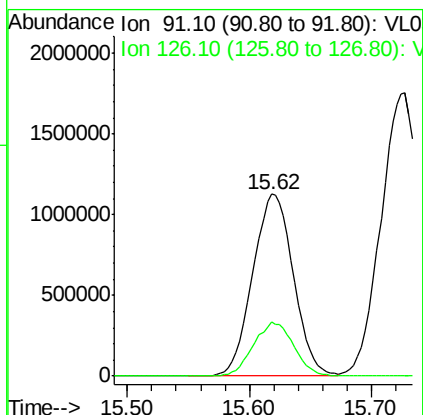
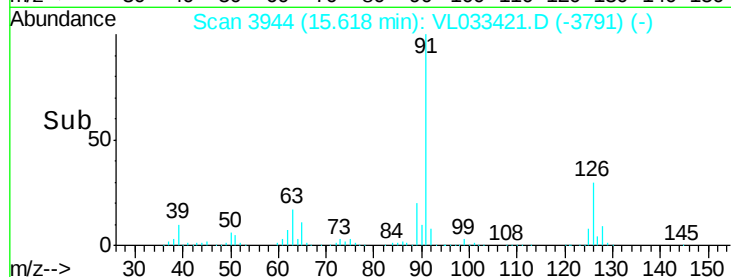
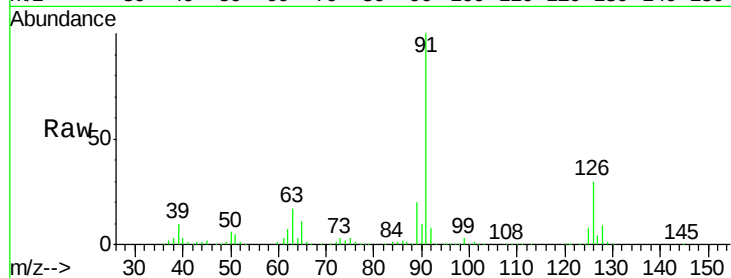
Ion Ratio Lower Upper

91 100

126 29.3 11.6 46.6

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#72

4-Ethyltoluene

Concen: 10.346 ppbv

RT: 16.00 min Scan# 4064

Delta R.T. -0.00 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Tgt Ion: 105 Resp: 2784636

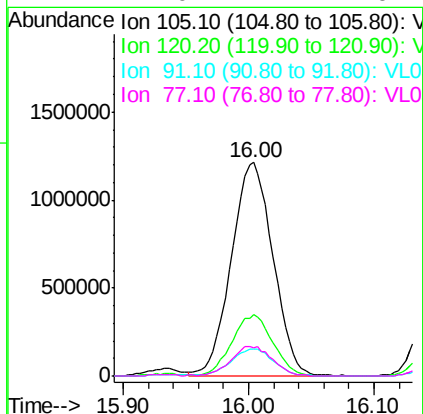
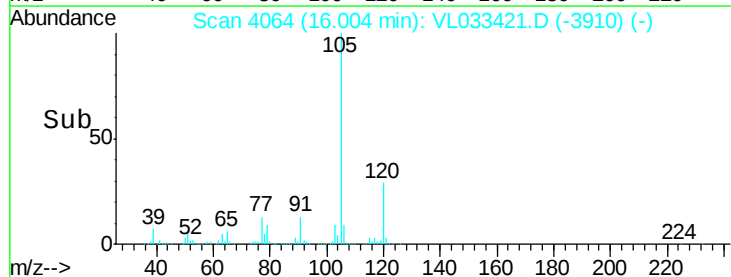
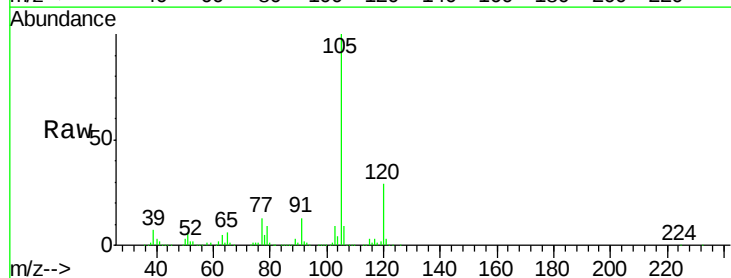
Ion Ratio Lower Upper

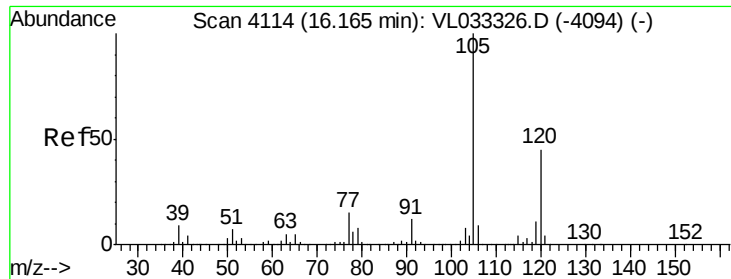
105 100

120 28.5 22.9 34.3

91 12.8 10.2 15.2

77 14.0 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 10.439 ppbv

RT: 16.16 min Scan# 4113

Delta R.T. -0.00 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:105 Resp: 2737108

Ion Ratio Lower Upper

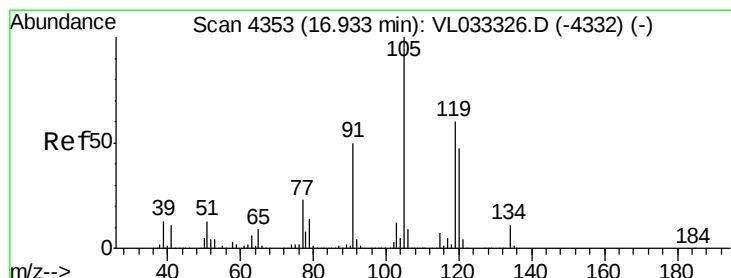
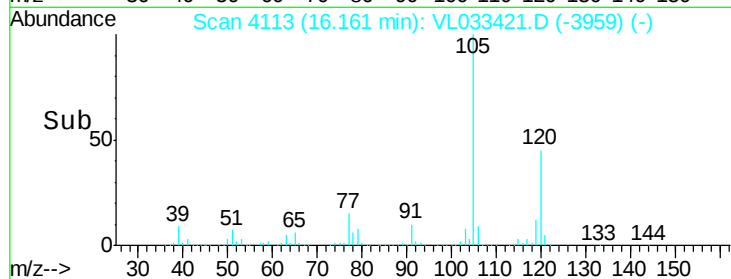
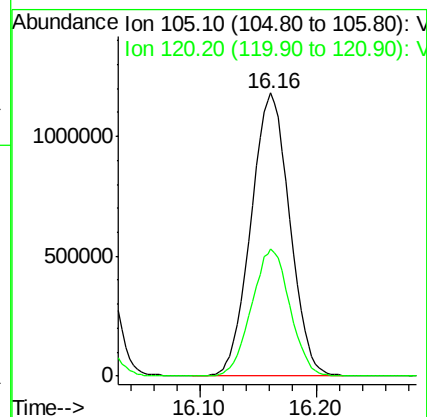
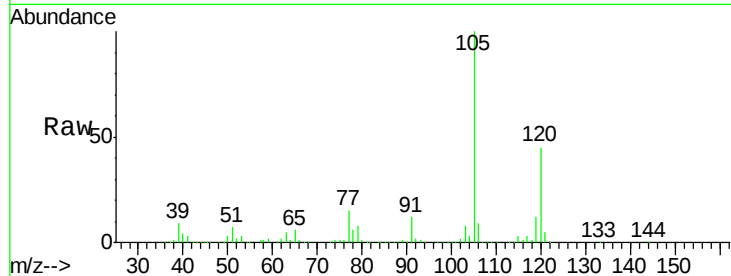
105 100

120 44.9 36.2 54.4

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#74

1,2,4-Trimethylbenzene

Concen: 9.995 ppbv

RT: 16.93 min Scan# 4353

Delta R.T. -0.00 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Tgt Ion:105 Resp: 2775638

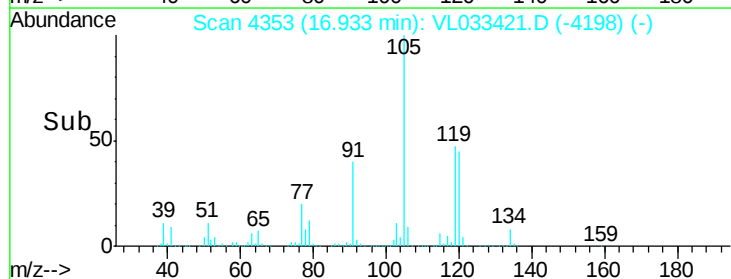
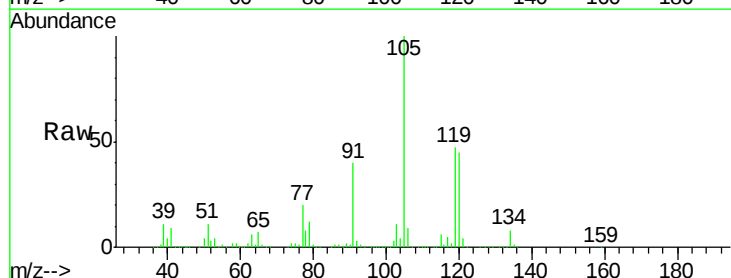
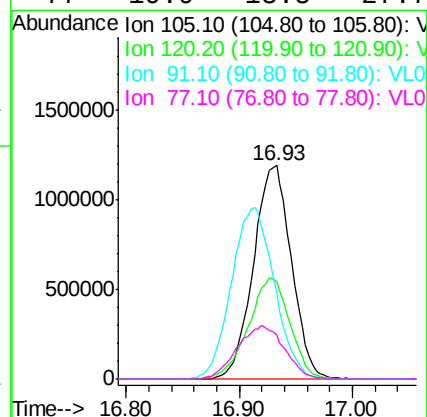
Ion Ratio Lower Upper

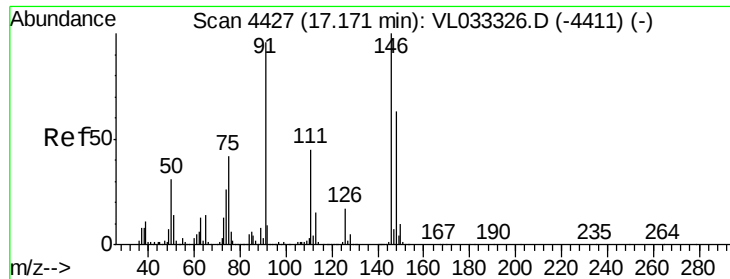
105 100

120 45.2 37.4 56.2

91 39.9 41.0 61.4#

77 19.9 18.5 27.7





#75

1,3-Dichlorobenzene

Concen: 9.845 ppbv

RT: 17.17 min Scan# 4426

Delta R.T. -0.00 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:146 Resp: 1611281

Ion Ratio Lower Upper

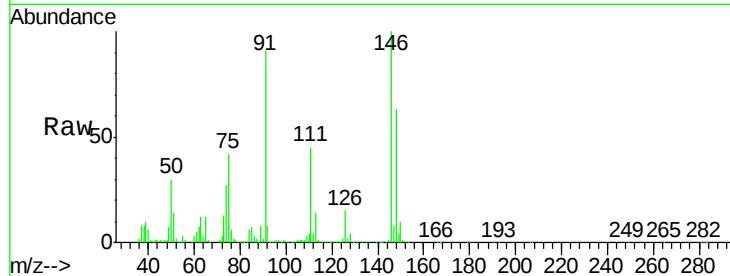
146 100

111 45.2 22.8 68.3

148 63.5 31.9 95.7

Manual Integrations
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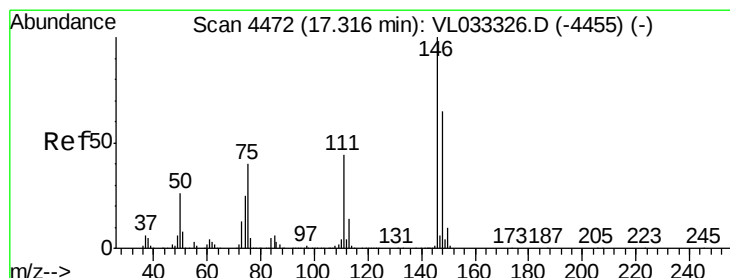
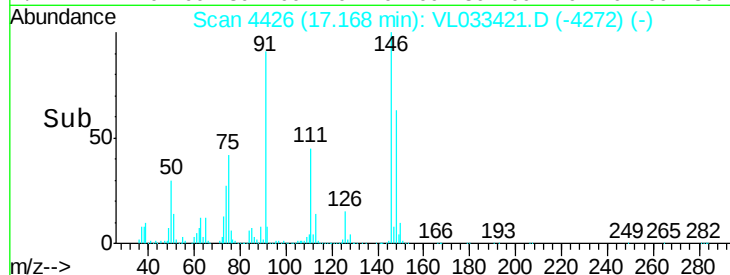
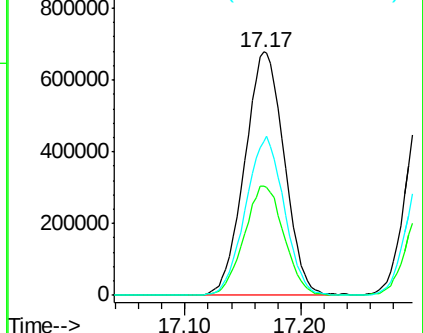
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 10.109 ppbv

RT: 17.31 min Scan# 4470

Delta R.T. -0.01 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

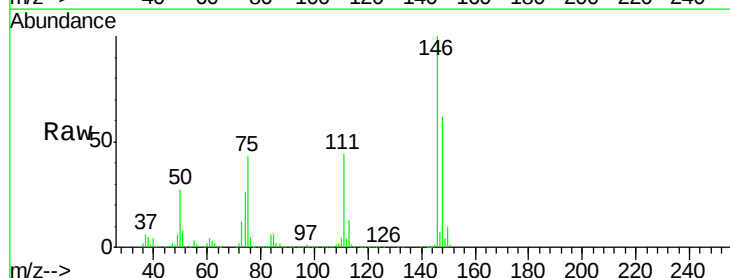
Tgt Ion:146 Resp: 1601854

Ion Ratio Lower Upper

146 100

111 44.3 21.9 65.7

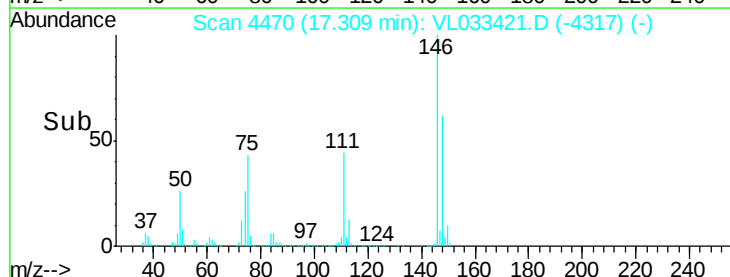
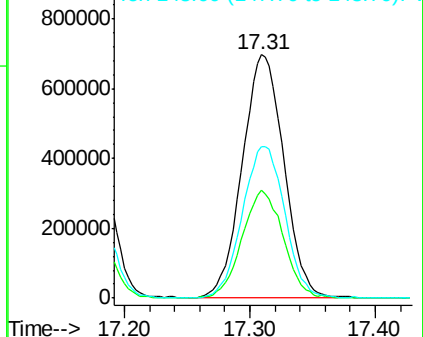
148 63.7 32.1 96.5

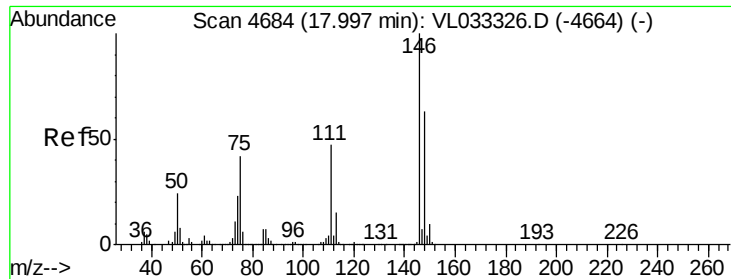


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





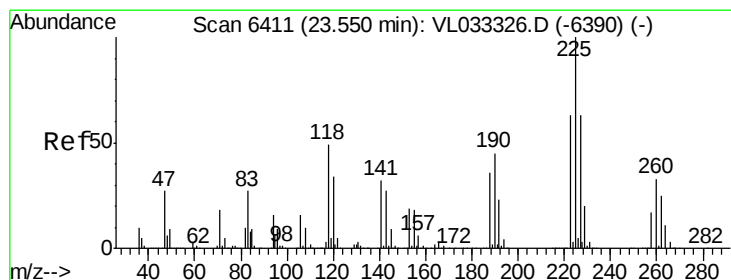
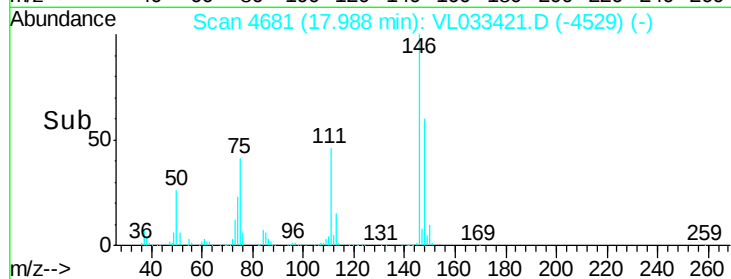
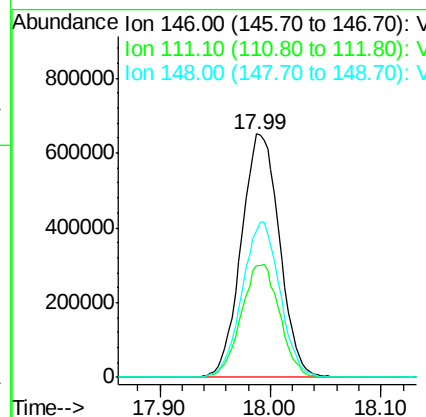
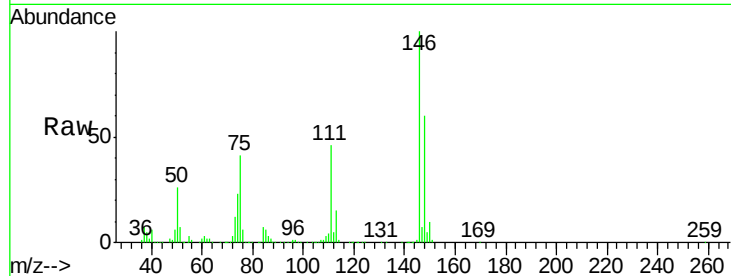
#77
 1,2-Dichlorobenzene
 Concen: 10.063 ppbv
 RT: 17.99 min Scan# 4681
 Delta R.T. -0.01 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.7	23.5	70.6
148	62.9	31.9	95.9

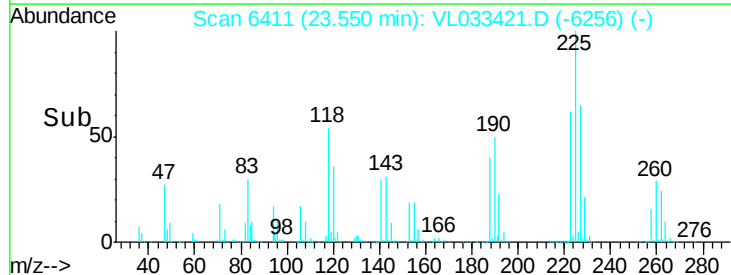
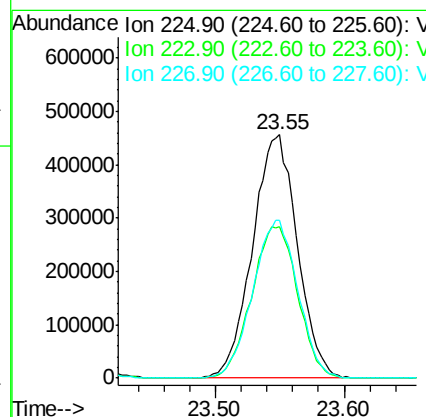
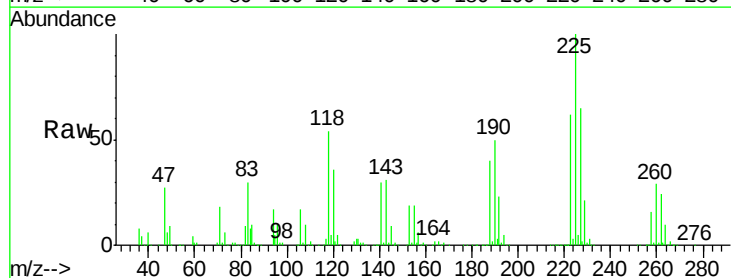
Manual Integrations
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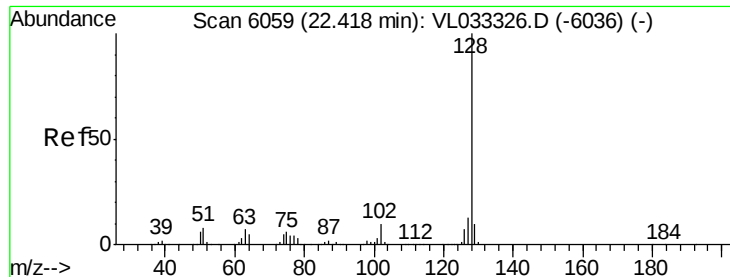
MMDadoda
 3/25/2019 8:28:10 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 11.902 ppbv
 RT: 23.55 min Scan# 6411
 Delta R.T. -0.00 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.9	50.4	75.6
227	65.1	50.5	75.7





#79

Naphthalene

Concen: 9.275 ppbv

RT: 22.41 min Scan# 6058

Delta R.T. -0.00 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010

Tot Ion:128 Resp: 2481863

Ion Ratio Lower Upper

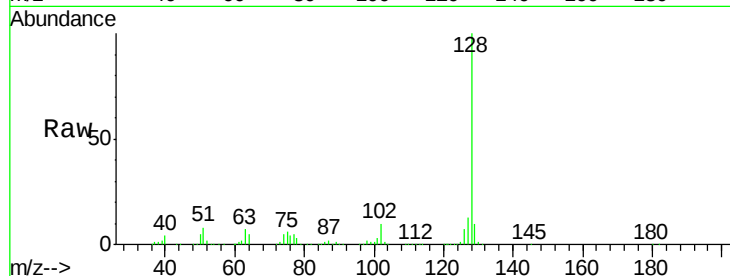
128 100

127 12.5 10.1 15.1

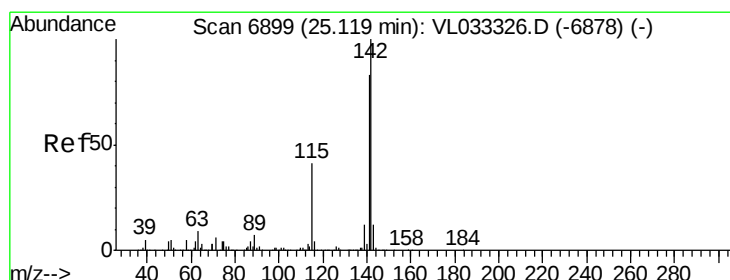
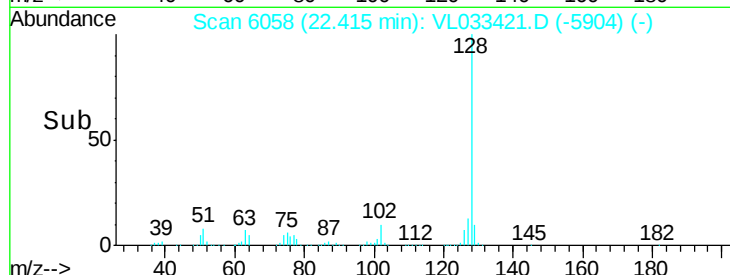
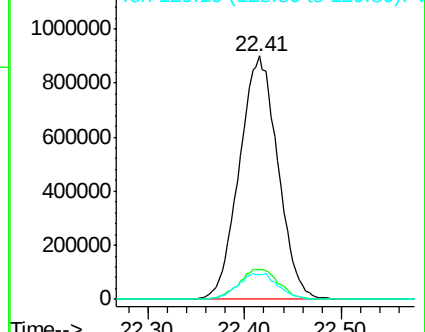
129 10.1 8.2 12.2

Manual Integrations
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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: 8.215 ppbv

RT: 25.12 min Scan# 6898

Delta R.T. -0.00 min

Lab File: VL033421.D

Acq: 21 Mar 2019 17:39

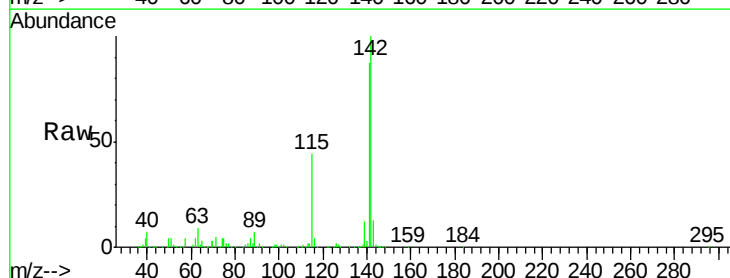
Tgt Ion:142 Resp: 1042402

Ion Ratio Lower Upper

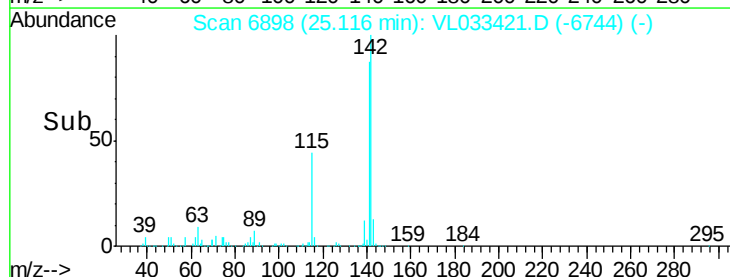
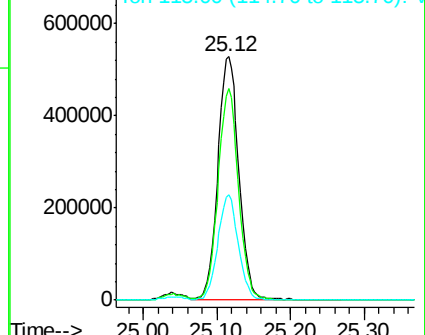
142 100

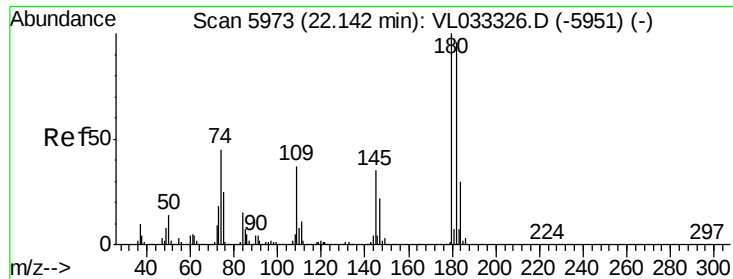
141 83.9 67.1 100.7

115 42.3 33.8 50.6



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: 9.439 ppbv
 RT: 22.14 min Scan# 5972
 Delta R.T. -0.00 min
 Lab File: VL033421.D
 Acq: 21 Mar 2019 17:39

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.3	76.1	114.1
184	30.8	24.6	37.0

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 8:28:10 AM

