

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060719\
 Data File : VL033881.D
 Acq On : 7 Jun 2019 7:12
 Operator : SY/AP
 Sample : VSTDICV010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ICSVVL060719

Manual Integrations
 APPROVED

MMDadoda
 6/11/2019 9:18:46 AM

Quant Time: Jun 07 09:31:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
 QLast Update : Fri Jun 07 06:23:16 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.75	49	1052239	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2448612	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2612992	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.56	95	2030923	9.46	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.60%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	1366993	8.006	ppbv 99
3) Chlorodifluoromethane	3.01	51	1090002	8.799	ppbv 100
4) Chloromethane	3.16	50	636418	9.007	ppbv 99
5) Vinyl Chloride	3.28	62	641008	9.778	ppbv 97
6) Bromomethane	3.51	94	403763	9.270	ppbv 95
7) Chloroethane	3.59	64	241544	9.316	ppbv 98
8) Dichlorotetrafluoroethane	3.21	85	1639248	8.983	ppbv 99
9) Propene	3.03	41	465584	10.045	ppbv 99
10) Heptane	8.24	43	1336551	11.408	ppbv 98
11) Trichlorofluoromethane	3.99	101	1931628	8.768	ppbv 100
12) 1,1,2-Trichlorotrifluoroet	4.54	101	1423795	9.562	ppbv 99
13) Ethanol	3.64	45	88455	5.461	ppbv 97
14) Bromoethene	3.78	108	540761	9.746	ppbv 99
15) Acetone	3.89	43	1221208	7.958	ppbv 99
16) 1,3-Butadiene	3.35	39	563837	9.653	ppbv 97
17) tert-Butyl alcohol	4.35	59	1010048	8.419	ppbv 100
18) 1,1-Dichloroethene	4.34	96	581055	9.239	ppbv 98
19) Isopropyl Alcohol	4.01	45	717552	8.185	ppbv 100
20) Methylene Chloride	4.40	84	491117	8.206	ppbv 99
21) Allyl Chloride	4.47	41	923031	10.588	ppbv 98
22) trans-1,2-Dichloroethene	4.95	96	658241	9.929	ppbv 99
23) Vinyl Acetate	5.15	43	2006675	11.250	ppbv 99
24) 1,1-Dichloroethane	5.08	63	1410771	10.168	ppbv 100
25) Ethyl Acetate	5.76	43	2395581	10.250	ppbv 100
26) Hexane	5.77	57	1062201	9.982	ppbv 98
27) Carbon Disulfide	4.61	76	1586809	10.733	ppbv 98
28) Methyl tert-Butyl Ether	5.10	73	1880758	11.688	ppbv 100
29) Chloroform	5.84	83	1813677	9.952	ppbv 99
30) Cyclohexane	7.24	84	868746	11.555	ppbv 98
31) cis-1,2-Dichloroethene	5.63	61	1087018	11.649	ppbv 99
32) 1,1,1-Trichloroethane	6.61	97	1901292	10.815	ppbv 99
34) 2-Butanone	5.32	43	1581333	11.448	ppbv 99
35) Carbon Tetrachloride	7.12	117	1994120	10.541	ppbv 99
36) Benzene	6.99	78	2178475	11.647	ppbv 99
37) 1,2-Dichloroethane	6.40	62	1410517	10.197	ppbv 98
38) Trichloroethene	7.95	130	888920	12.206	ppbv 99
39) 1,2-Dichloropropane	7.72	63	805040	11.152	ppbv 94
40) 1,4-Dioxane	7.95	88	292856	9.946	ppbv 62
41) Tetrahydrofuran	6.13	42	861440	12.286	ppbv 99
42) Bromodichloromethane	7.91	83	1974647	10.682	ppbv 97
43) Methyl Methacrylate	8.13	69	864575	12.359	ppbv 99

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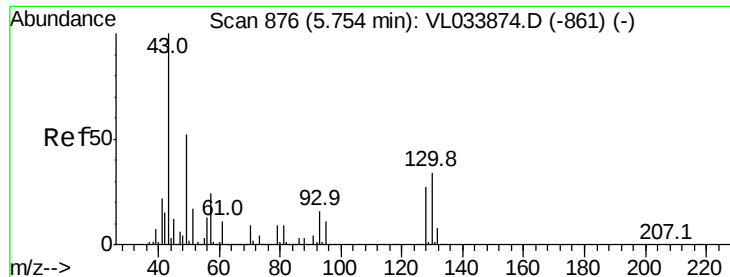
Manual Integrations
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.98	57	3617601	10.876	ppbv	100
45) t-1,3-Dichloropropene	9.41	75	1183359	12.892	ppbv	98
46) cis-1,3-Dichloropropene	8.82	75	1340941	12.751	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	896810	10.421	ppbv	99
48) Dibromochloromethane	10.44	129	1688484	10.917	ppbv	96
49) Bromoform	13.19	173	1541502	11.291	ppbv	98
50) 4-Methyl-2-Pentanone	8.86	43	2324342	11.284	ppbv	99
51) 2-Hexanone	10.26	43	1911369	11.883	ppbv #	100
52) Tetrachloroethene	11.36	164	841603	12.787	ppbv	98
53) Toluene	9.93	91	2549943	12.319	ppbv	100
54) 1,2-Dibromoethane	10.75	107	1444842	11.137	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.27	131	1151312	10.086	ppbv	98
57) Chlorobenzene	12.29	112	1987351	10.155	ppbv	98
58) Ethyl Benzene	12.85	91	3561594	12.090	ppbv	99
59) m/p-Xylene	13.14	91	5906978m	22.049	ppbv	
60) o-Xylene	13.84	91	2979035	10.770	ppbv	100
61) Styrene	13.67	104	2192878	12.251	ppbv	99
62) Isopropylbenzene	14.81	105	4011969	10.762	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	2094364	10.059	ppbv	99
64) n-propylbenzene	15.71	120	1050318	11.002	ppbv	98
65) tert-Butylbenzene	16.90	119	3775450	10.945	ppbv	100
66) Benzyl Chloride	17.15	91	2000331	11.443	ppbv	99
67) sec-Butylbenzene	17.44	105	5270134	10.890	ppbv	100
69) p-Isopropyltoluene	17.80	119	4367647	10.847	ppbv	100
70) n-Butylbenzene	18.70	91	4531709	10.276	ppbv	100
71) 2-Chlorotoluene	15.61	91	3097276	11.277	ppbv	98
72) 4-Ethyltoluene	15.99	105	3598940	11.434	ppbv	99
73) 1,3,5-Trimethylbenzene	16.15	105	3459372	11.157	ppbv	97
74) 1,2,4-Trimethylbenzene	16.91	105	3662328	10.248	ppbv	96
75) 1,3-Dichlorobenzene	17.15	146	2107836	9.419	ppbv	100
76) 1,4-Dichlorobenzene	17.29	146	2089190	10.167	ppbv	100
77) 1,2-Dichlorobenzene	17.98	146	1997528	9.672	ppbv	99
78) Hexachloro-1,3-Butadiene	23.53	225	1175718	7.289	ppbv	99
79) Naphthalene	22.39	128	2637844	9.235	ppbv	100
80) Naphthalene, 2-methyl-	25.10	142	910947	7.993	ppbv #	93
81) 1,2,4-Trichlorobenzene	22.12	180	1569661	8.704	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 875

Delta R.T. -0.00 min

Lab File: VL033881.D

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Instrument :

MSVOA_L

ClientSampleId :

ICVVL060719

Tot Ion: 49 Resp: 1052239

Ion Ratio Lower Upper

49 100

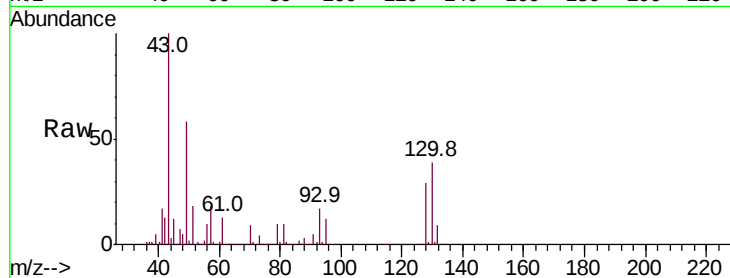
128 51.0 25.5 76.5

130 66.0 32.5 97.4

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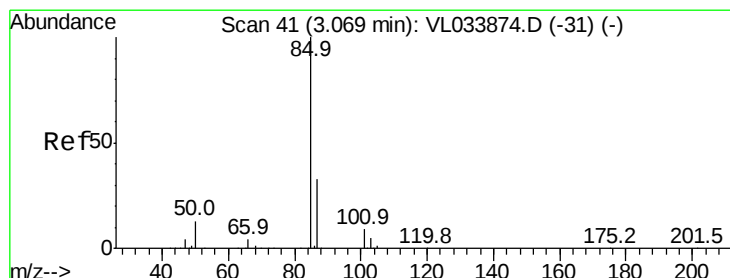
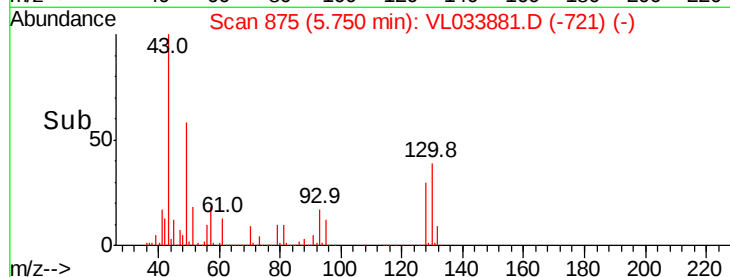
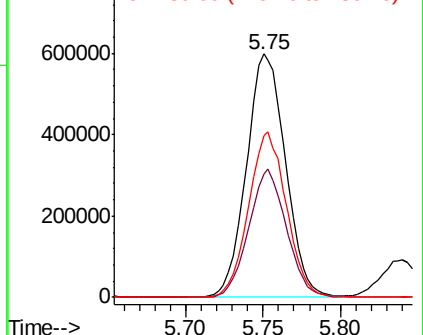
6/11/2019 9:18:46 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 8.006 ppbv

RT: 3.07 min Scan# 41

Delta R.T. -0.00 min

Lab File: VL033881.D

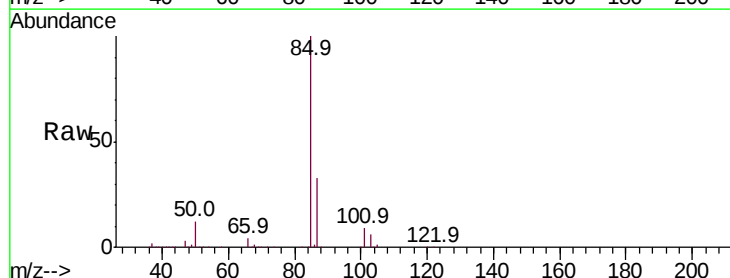
Acq: 7 Jun 2019 7:12

Tgt Ion: 85 Resp: 1366993

Ion Ratio Lower Upper

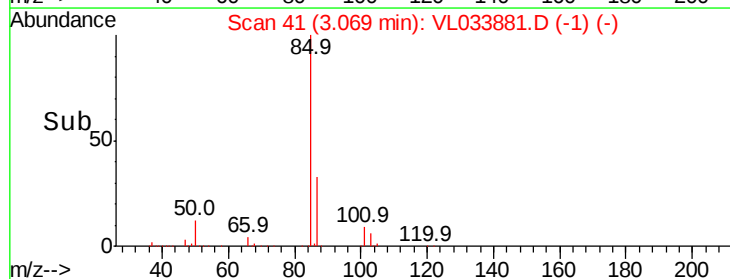
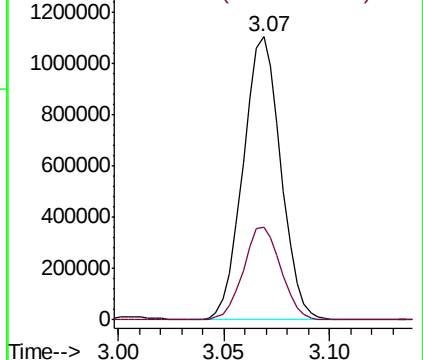
85 100

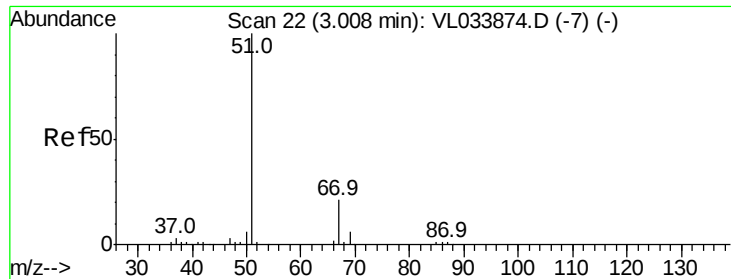
87 32.6 26.6 40.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





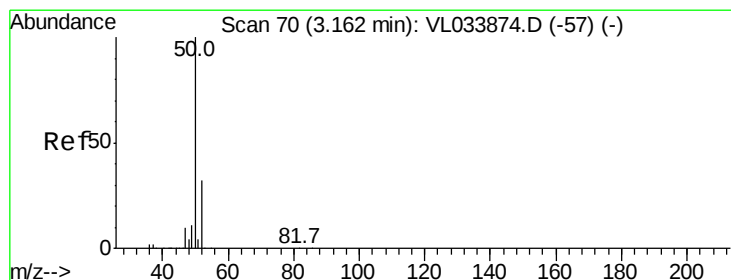
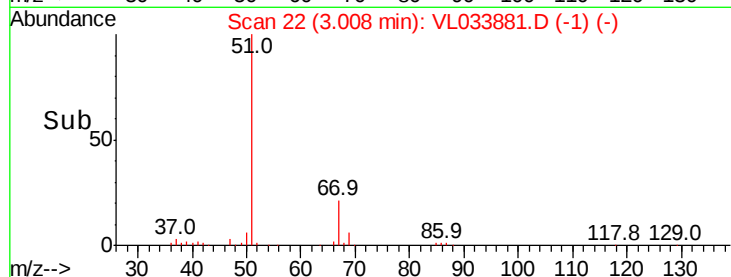
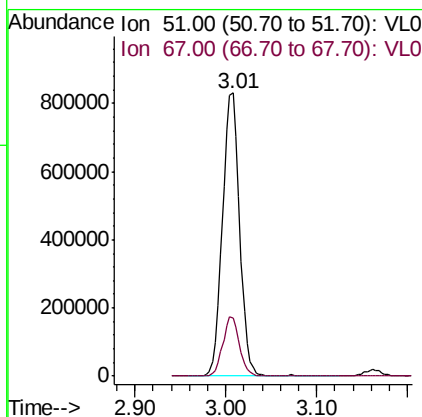
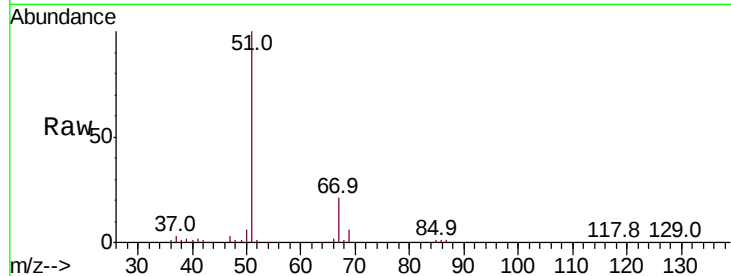
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Chlorodifluoromethane
Concen: 8.799 ppbv
RT: 3.01 min Scan# 22
Delta R.T. -0.00 min
Lab File: VL033881.D
Acq: 7 Jun 2019 7:12

Instrument :
MSVOA_L
ClientSampleId :
ICVVL060719

Tot Ion: 51 Resp: 1090002
Ion Ratio Lower Upper
51 100
67 20.3 16.4 24.6

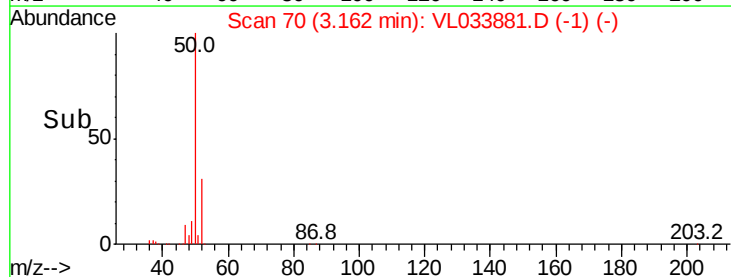
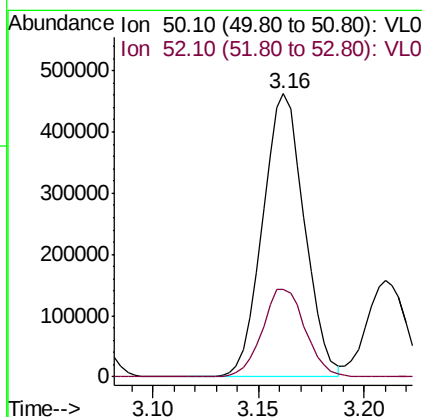
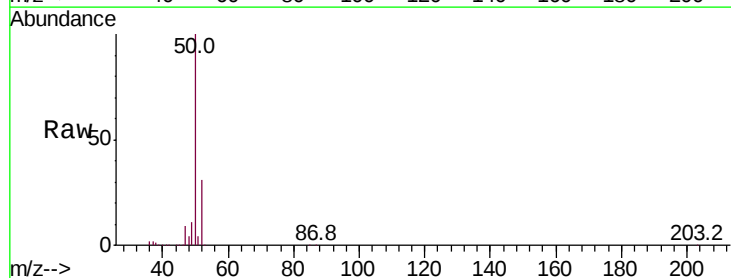
Manual Integrations
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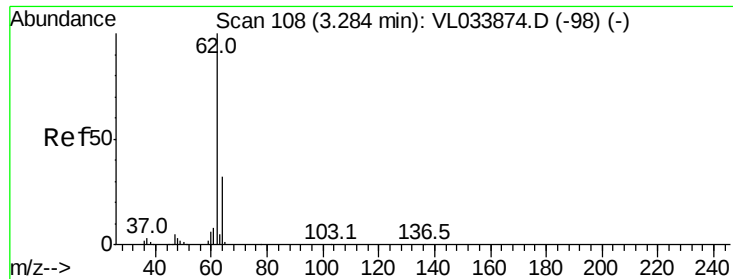
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#4
Chloromethane
Concen: 9.007 ppbv
RT: 3.16 min Scan# 70
Delta R.T. -0.00 min
Lab File: VL033881.D
Acq: 7 Jun 2019 7:12

Tgt Ion: 50 Resp: 636418
Ion Ratio Lower Upper
50 100
52 31.0 25.4 38.0





#5

Vinyl Chloride

Concen: 9.778 ppbv

RT: 3.28 min Scan# 107

Delta R.T. -0.00 min

Lab File: VL033881.D

Acq: 7 Jun 2019 7:12

Instrument :

MSVOA_L

ClientSampleId :

ICVVL060719

Tot Ion: 62 Resp: 641008

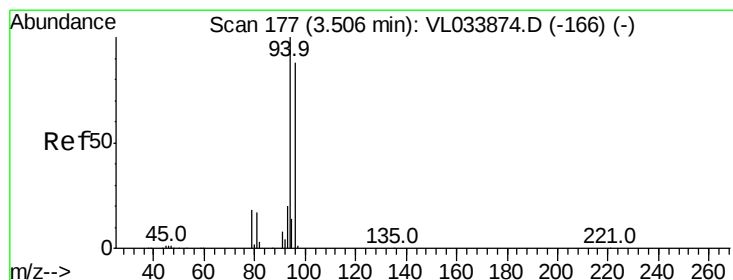
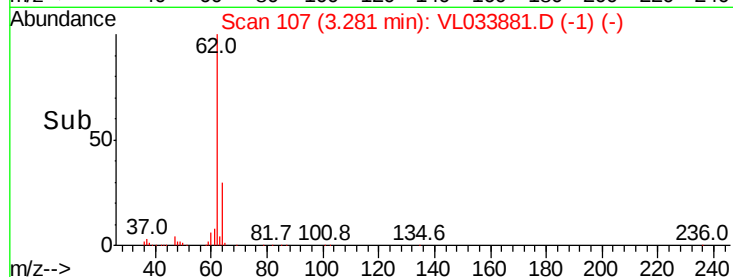
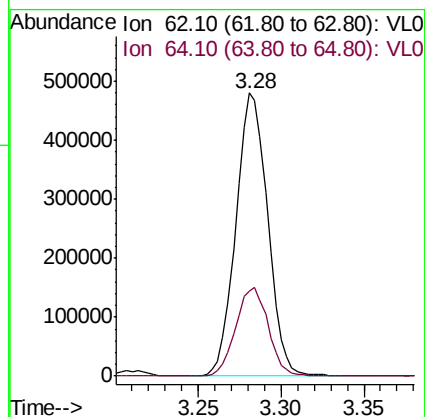
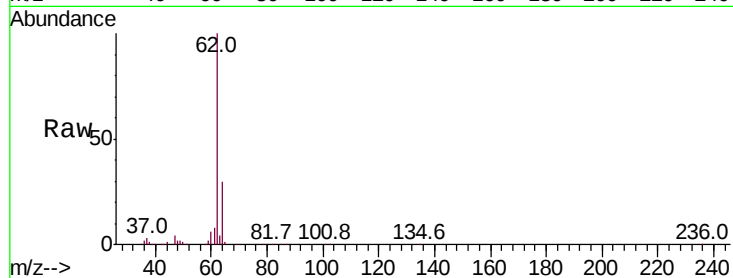
Ion Ratio Lower Upper

62 100

64 29.9 25.2 37.8

Manual Integrations
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#6

Bromomethane

Concen: 9.270 ppbv

RT: 3.51 min Scan# 177

Delta R.T. -0.00 min

Lab File: VL033881.D

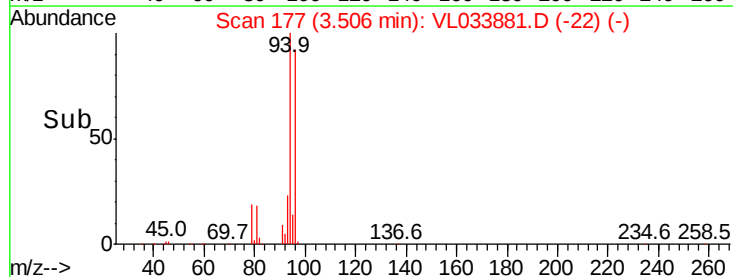
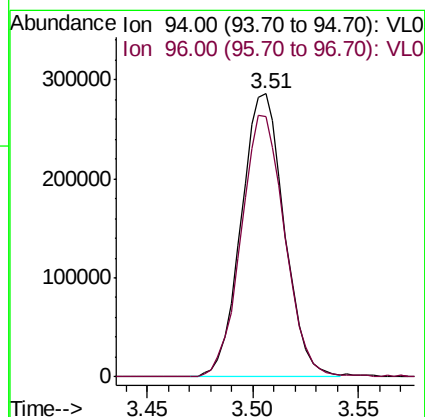
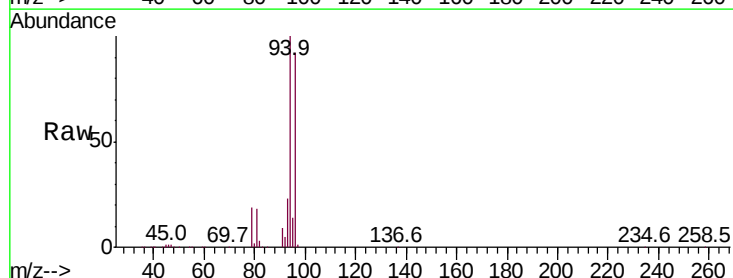
Acq: 7 Jun 2019 7:12

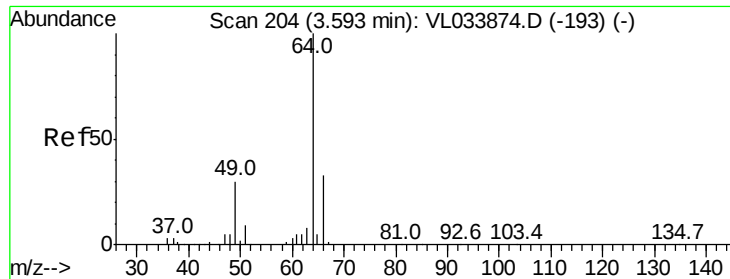
Tgt Ion: 94 Resp: 403763

Ion Ratio Lower Upper

94 100

96 92.2 70.2 105.2





#7

Chloroethane

Concen: 9.316 ppbv

RT: 3.59 min Scan# 203

Delta R.T. -0.00 min

Lab File: VL033881.D

Acq: 7 Jun 2019 7:12

Instrument :

MSVOA_L

ClientSampleId :

ICVVL060719

Tot Ion: 64 Resp: 241544

Ion Ratio Lower Upper

64 100

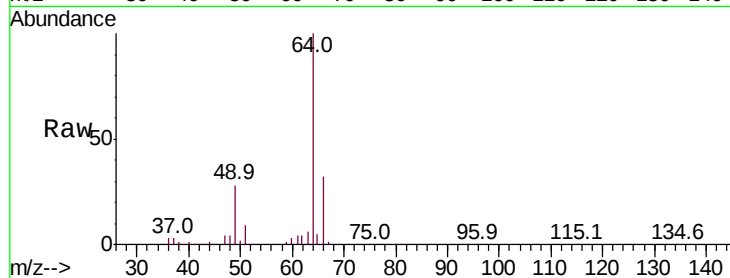
66 32.1 26.7 40.1

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

3.59

200000

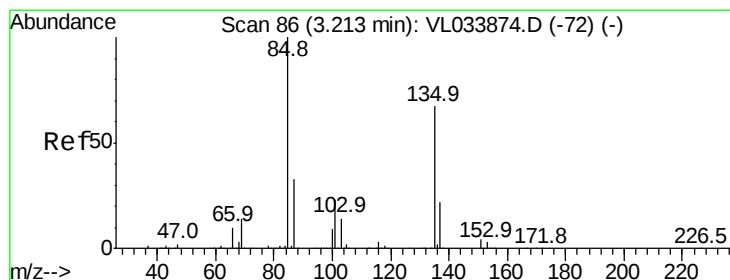
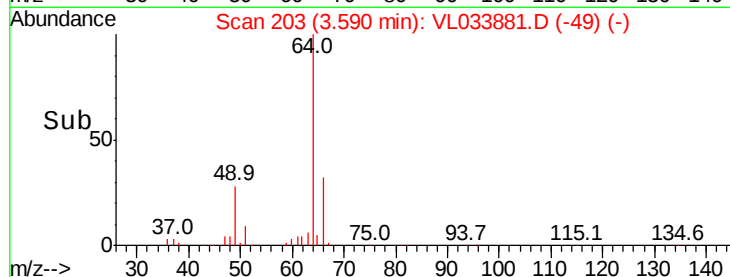
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 8.983 ppbv

RT: 3.21 min Scan# 85

Delta R.T. -0.00 min

Lab File: VL033881.D

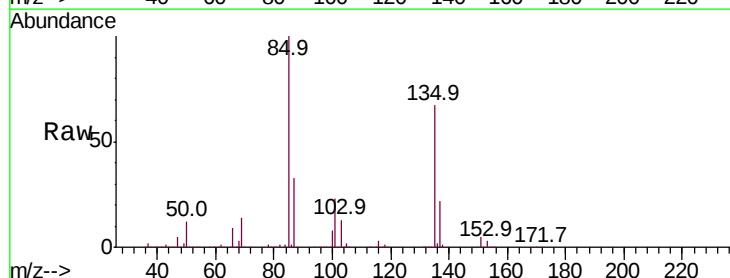
Acq: 7 Jun 2019 7:12

Tgt Ion: 85 Resp: 1639248

Ion Ratio Lower Upper

85 100

135 67.7 53.7 80.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

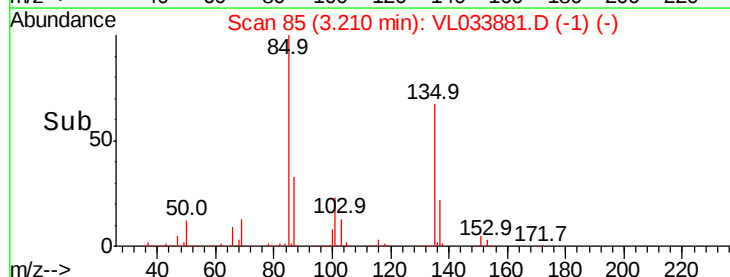
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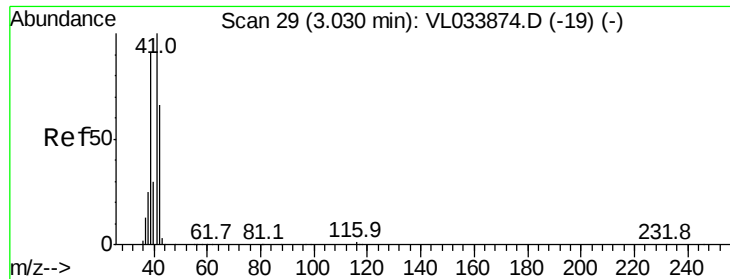
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Time-->





#9

Propene

Concen: 10.045 ppbv

RT: 3.03 min Scan# 28

Delta R.T. -0.00 min

Lab File: VL033881.D

Acq: 7 Jun 2019 7:12

Instrument :

MSVOA_L

ClientSampleId :

ICVVL060719

Tot Ion: 41 Resp: 465584

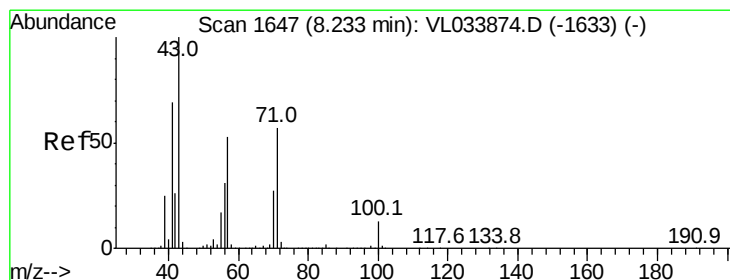
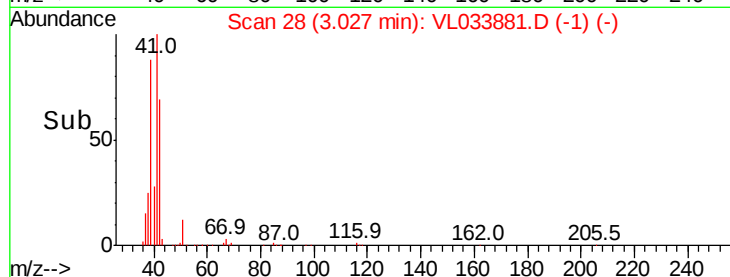
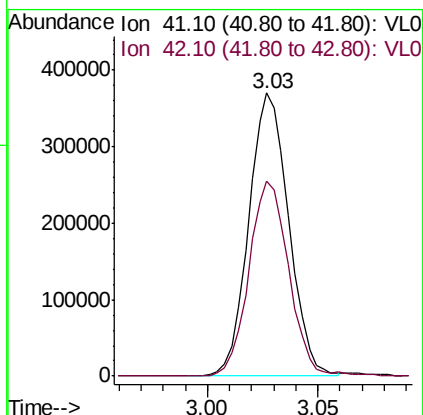
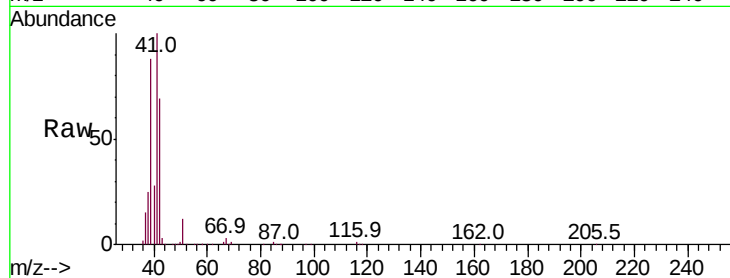
Ion Ratio Lower Upper

41 100

42 69.4 56.3 84.5

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#10

Heptane

Concen: 11.408 ppbv

RT: 8.24 min Scan# 1648

Delta R.T. 0.00 min

Lab File: VL033881.D

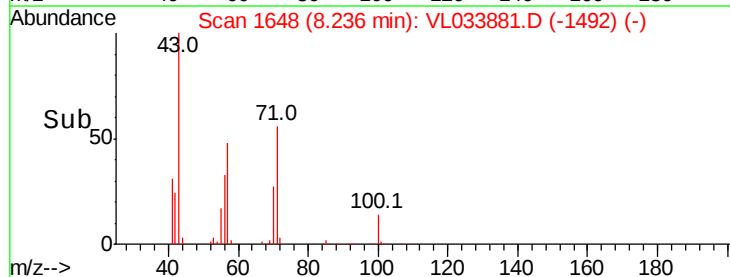
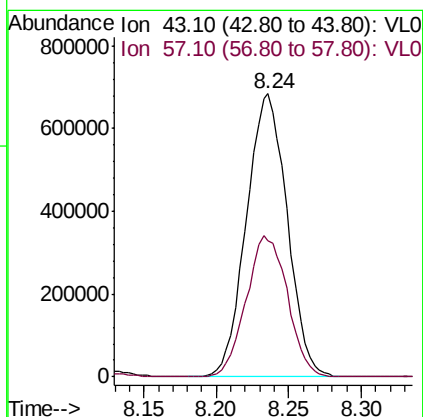
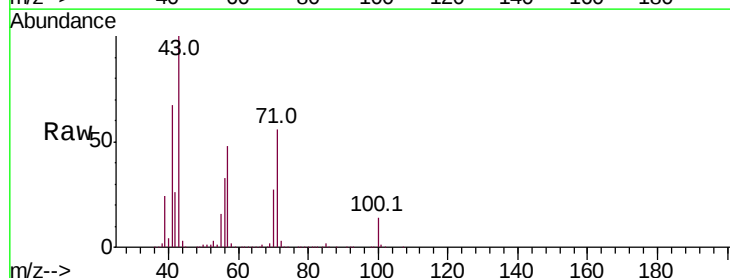
Acq: 7 Jun 2019 7:12

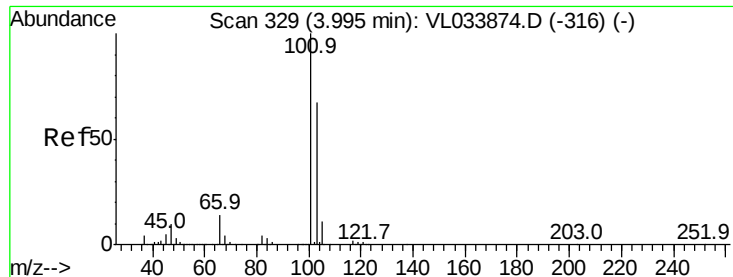
Tgt Ion: 43 Resp: 1336551

Ion Ratio Lower Upper

43 100

57 50.6 41.7 62.5





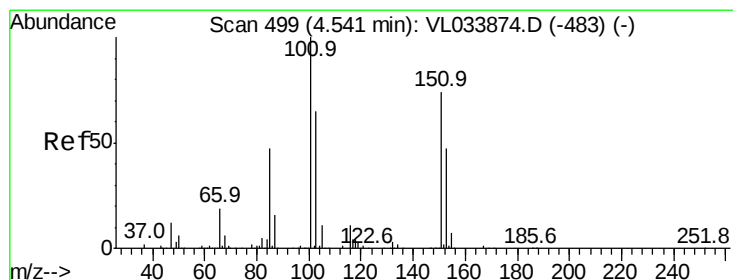
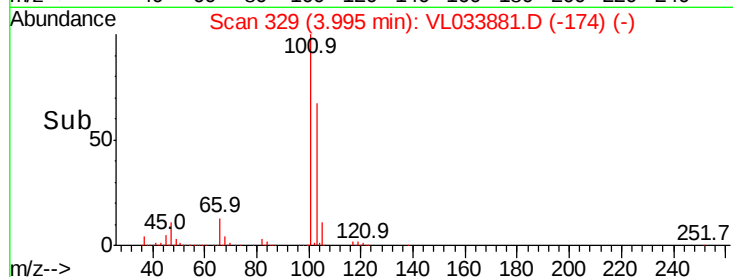
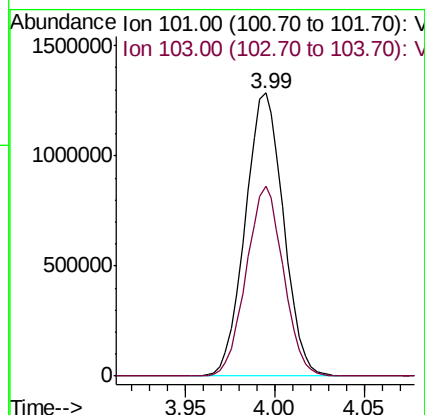
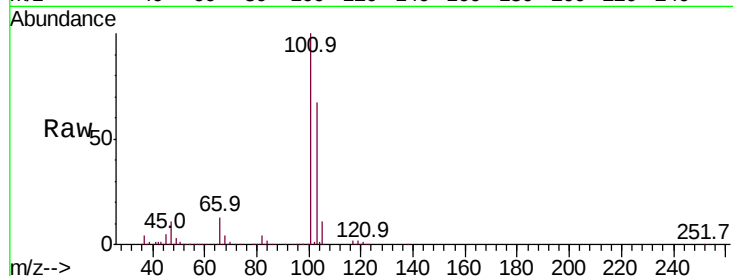
#11
 Trichlorofluoromethane
 Concen: 8.768 ppbv
 RT: 3.99 min Scan# 329
 Delta R.T. -0.00 min
 Lab File: VL033881.D
 Acq: 7 Jun 2019 7:12

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL060719

Tot Ion:101 Resp: 1931628
 Ion Ratio Lower Upper
 101 100
 103 67.1 53.6 80.4

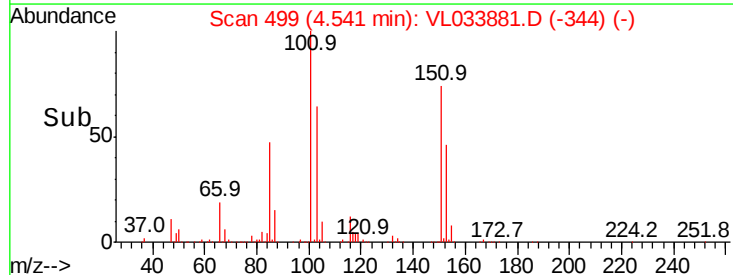
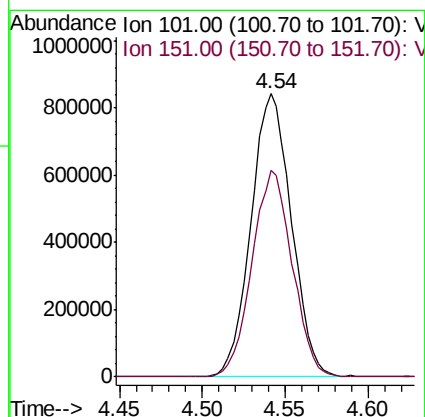
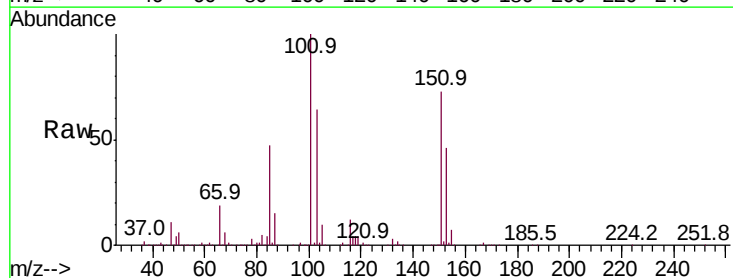
Manual Integrations
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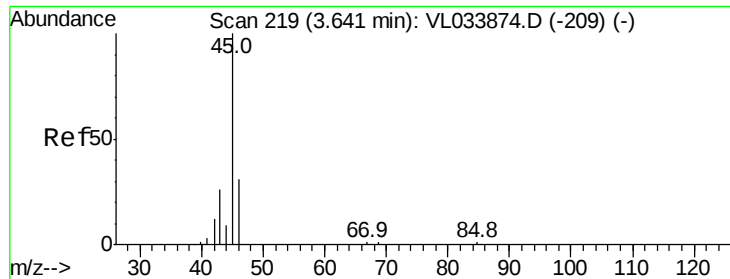
MMDadoda
 6/11/2019 9:18:46 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.562 ppbv
 RT: 4.54 min Scan# 499
 Delta R.T. -0.00 min
 Lab File: VL033881.D
 Acq: 7 Jun 2019 7:12

Tgt Ion:101 Resp: 1423795
 Ion Ratio Lower Upper
 101 100
 151 72.7 58.6 87.8





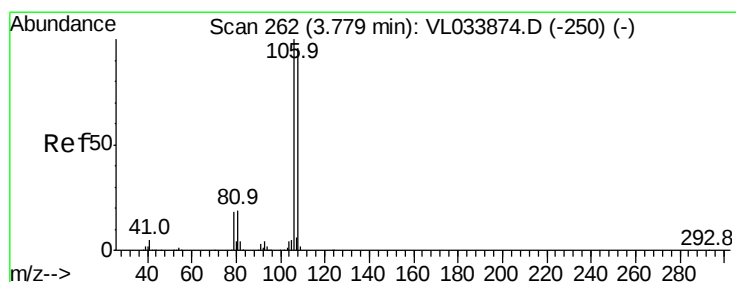
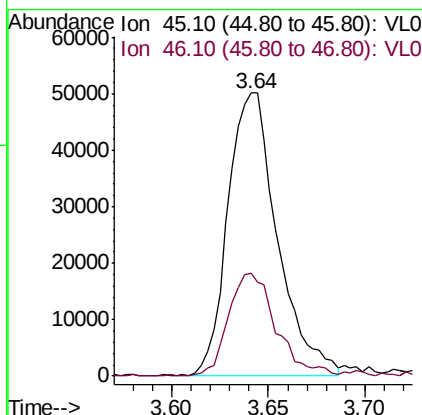
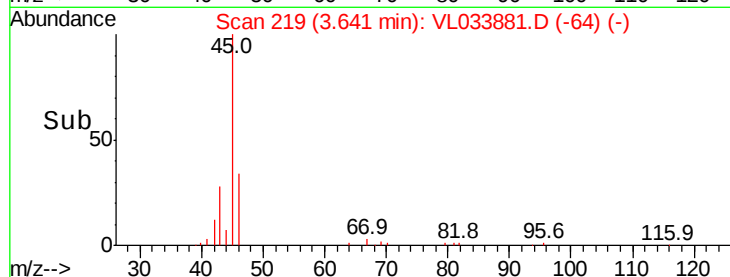
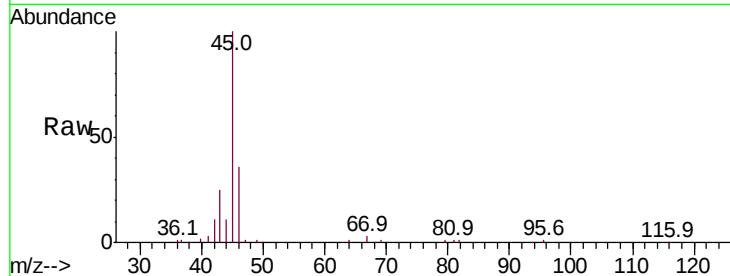
#13
Ethanol
Concen: 5.461 ppbv
RT: 3.64 min Scan# 219
Delta R.T. -0.00 min
Lab File: VL033881.D
Acq: 7 Jun 2019 7:12

Instrument :
MSVOA_L
ClientSampleId :
ICVVL060719

Tot Ion	45	46	Ratio	100	36.6	Resp	88455	Lower	Upper
Ion	45	46	Ratio	100	36.6	Resp	88455	Lower	Upper
								15.3	61.1

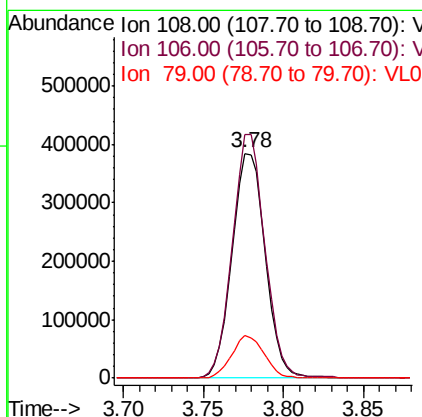
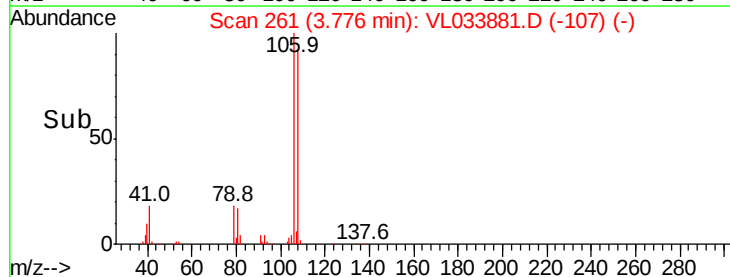
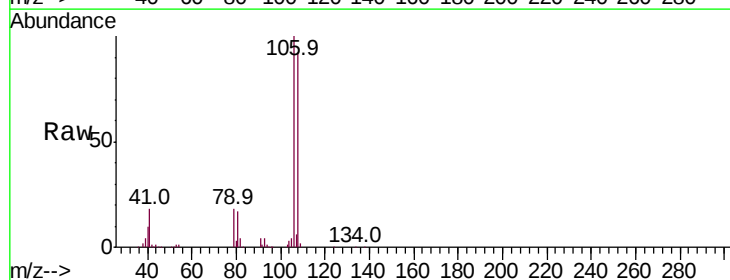
Manual Integrations
APPROVED

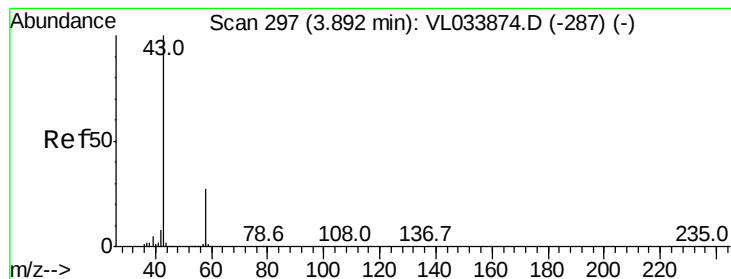
MMDadoda
6/11/2019 9:18:46 AM



#14
Bromoethene
Concen: 9.746 ppbv
RT: 3.78 min Scan# 261
Delta R.T. -0.00 min
Lab File: VL033881.D
Acq: 7 Jun 2019 7:12

Tgt Ion	108	106	79	Ratio	100	106.6	18.7	Resp	540761	Lower	Upper
Ion	108	106	79	Ratio	100	106.6	18.7	Resp	540761	Lower	Upper
										84.9	127.3
										15.4	23.0





#15

Acetone

Concen: 7.958 ppbv

RT: 3.89 min Scan# 297

Delta R.T. -0.00 min

Lab File: VL033881.D

Acq: 7 Jun 2019 7:12

Instrument :

MSVOA_L

ClientSampleId :

ICVVL060719

Tot Ion: 43 Resp: 1221208

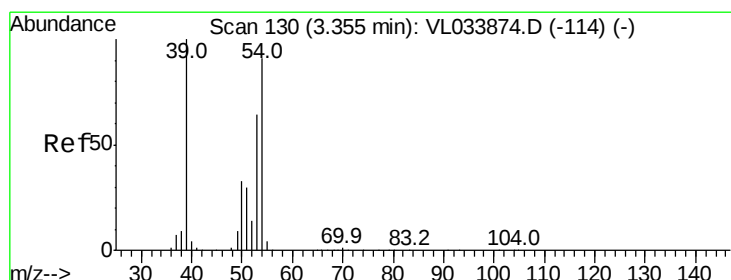
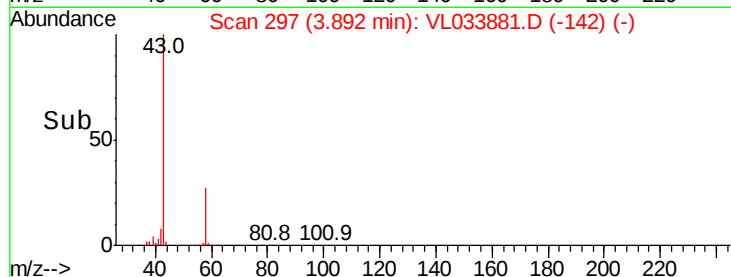
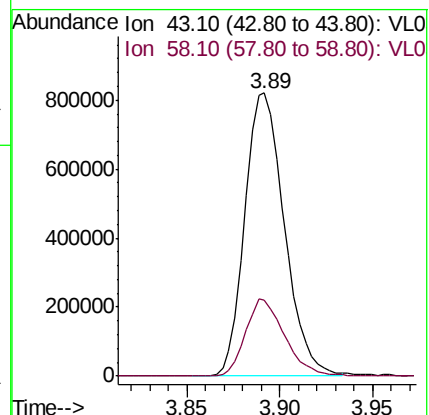
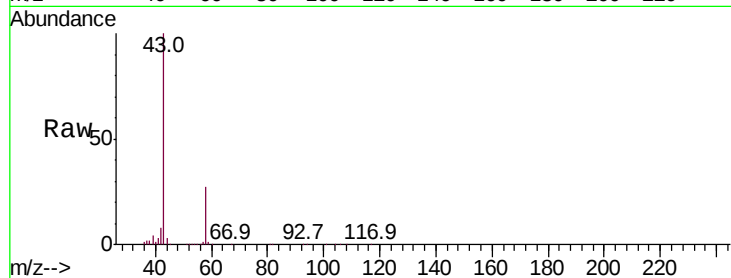
Ion Ratio Lower Upper

43 100

58 27.0 21.3 31.9

Manual Integrations
APPROVED

MMDadoda
6/11/2019 9:18:46 AM



#16

1,3-Butadiene

Concen: 9.653 ppbv

RT: 3.35 min Scan# 130

Delta R.T. -0.00 min

Lab File: VL033881.D

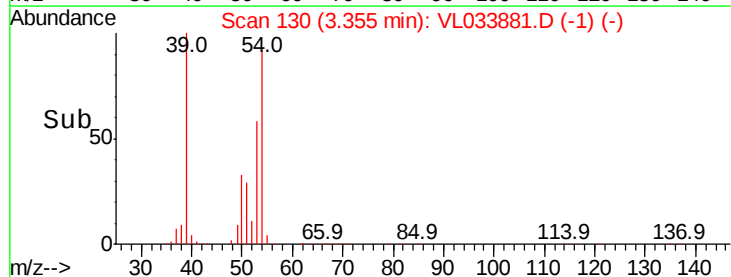
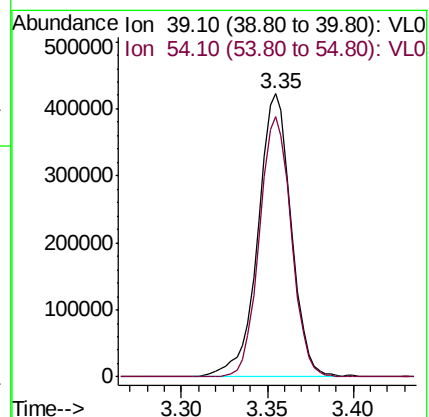
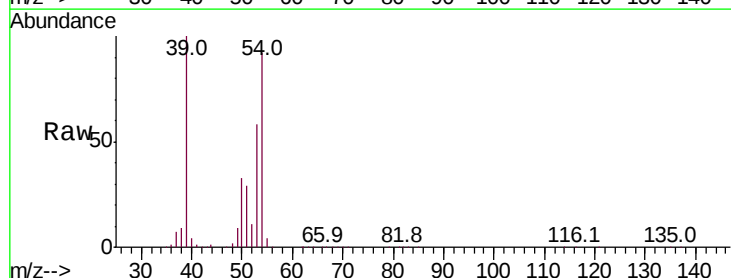
Acq: 7 Jun 2019 7:12

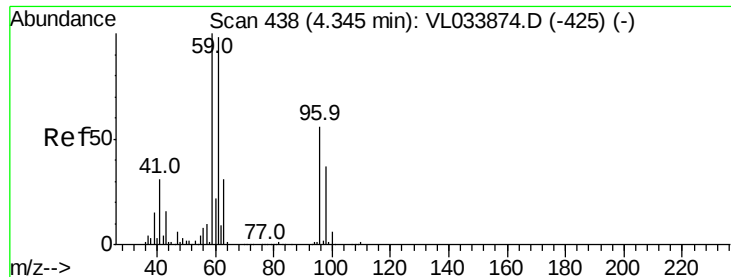
Tgt Ion: 39 Resp: 563837

Ion Ratio Lower Upper

39 100

54 88.5 68.6 103.0





#17

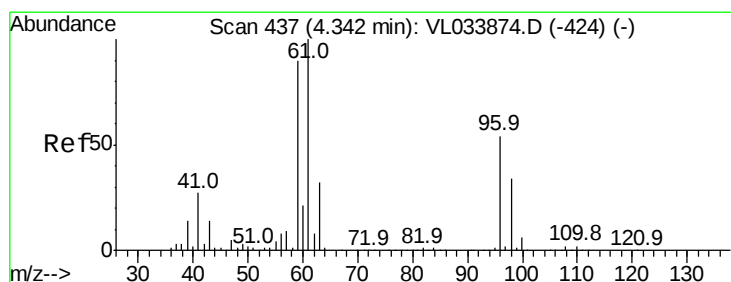
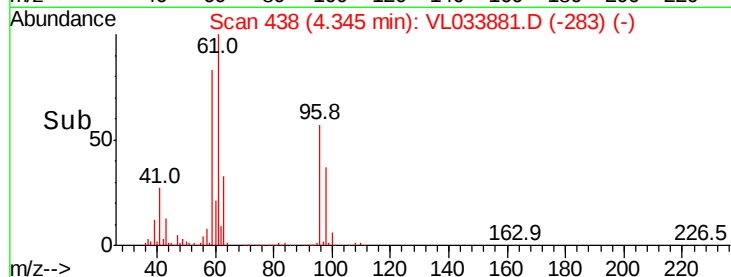
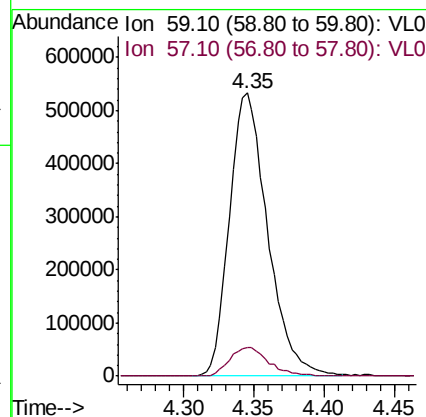
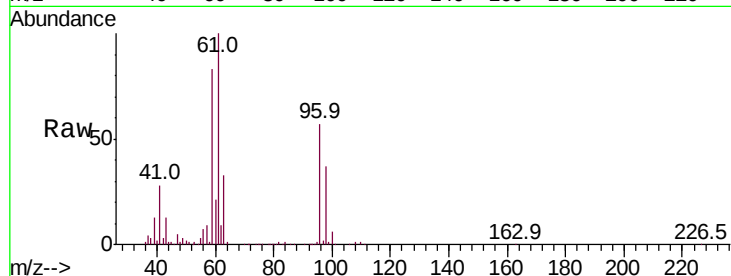
tert-Butyl alcohol
Concen: 8.419 ppbv
RT: 4.35 min Scan# 438
Delta R.T. -0.00 min
Lab File: VL033881.D
Acq: 7 Jun 2019 7:12

Instrument :
MSVOA_L
ClientSampleId :
ICVVL060719

Tot Ion: 59 Resp: 1010048
Ion Ratio Lower Upper
59 100
57 10.5 8.4 12.6

Manual Integrations
APPROVED

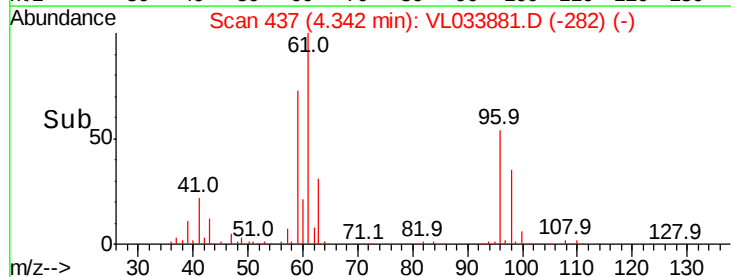
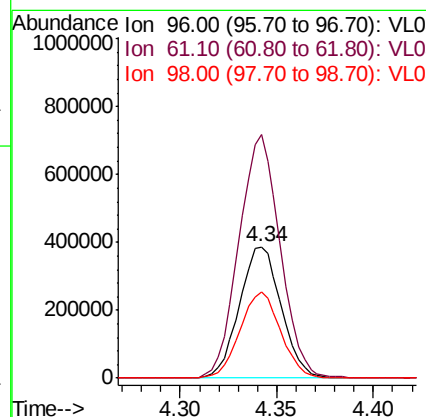
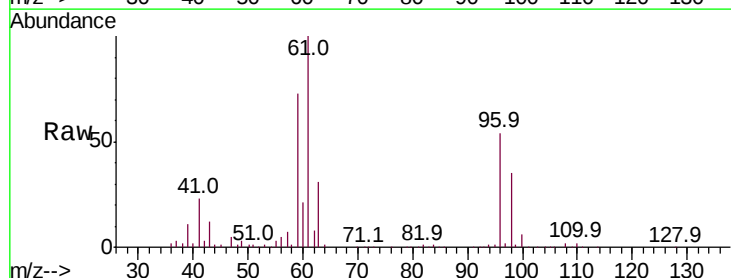
MMDadoda
6/11/2019 9:18:46 AM

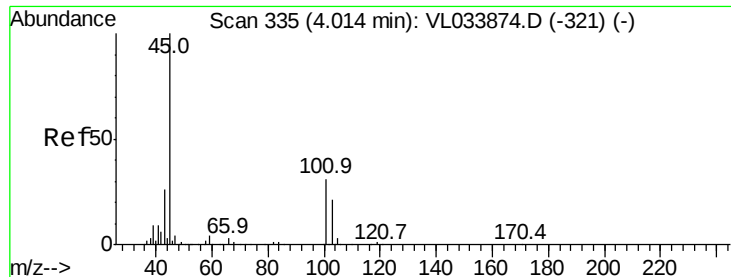


#18

1,1-Dichloroethene
Concen: 9.239 ppbv
RT: 4.34 min Scan# 437
Delta R.T. -0.00 min
Lab File: VL033881.D
Acq: 7 Jun 2019 7:12

Tgt Ion: 96 Resp: 581055
Ion Ratio Lower Upper
96 100
61 184.9 147.0 220.6
98 65.3 49.4 74.0





#19

Isopropyl Alcohol

Concen: 8.185 ppbv

RT: 4.01 min Scan# 335

Delta R.T. -0.00 min

Lab File: VL033881.D

Acq: 7 Jun 2019 7:12

Tot Ion: 45 Resp: 717552

Ion Ratio Lower Upper

45 100

58 2.1 1.8 2.6

Instrument :

MSVOA_L

ClientSampleId :

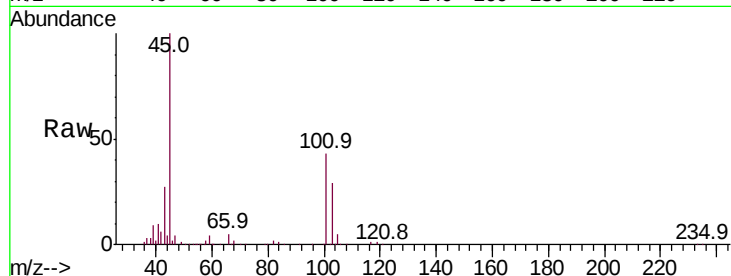
ICVVL060719

Manual Integrations

APPROVED

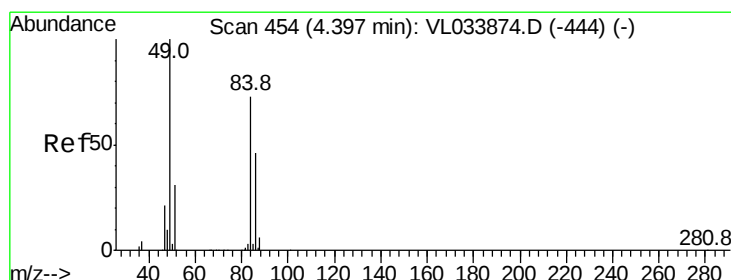
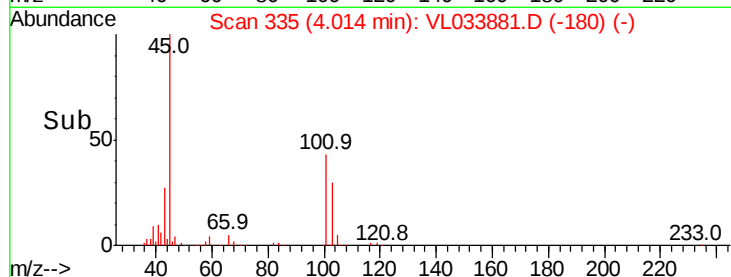
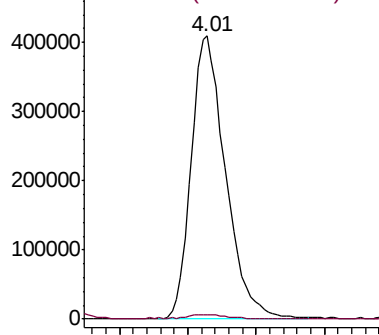
MMDadoda

6/11/2019 9:18:46 AM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 8.206 ppbv

RT: 4.40 min Scan# 455

Delta R.T. 0.00 min

Lab File: VL033881.D

Acq: 7 Jun 2019 7:12

Tgt Ion: 84 Resp: 491117

Ion Ratio Lower Upper

84 100

49 137.4 110.0 165.0

51 41.0 34.6 51.8

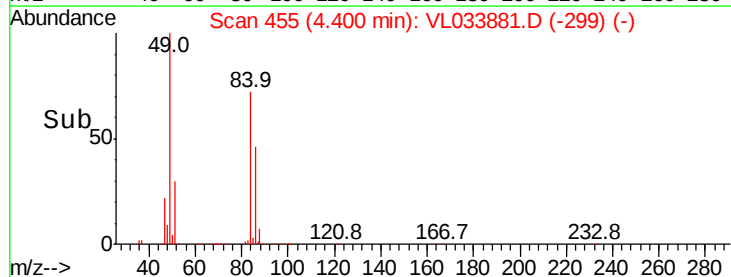
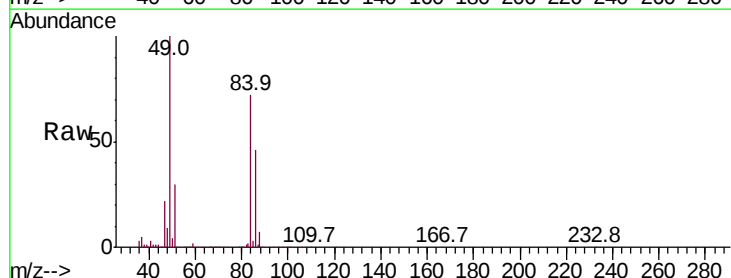
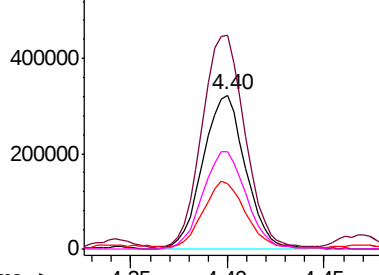
86 63.2 50.6 75.8

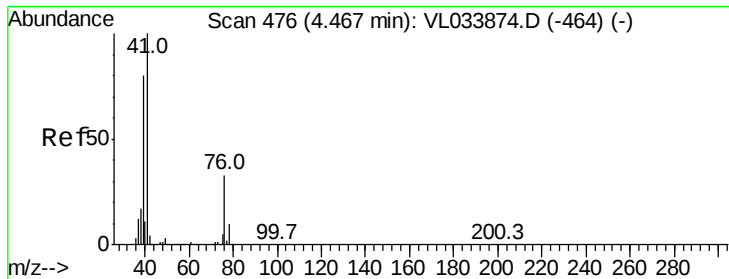
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





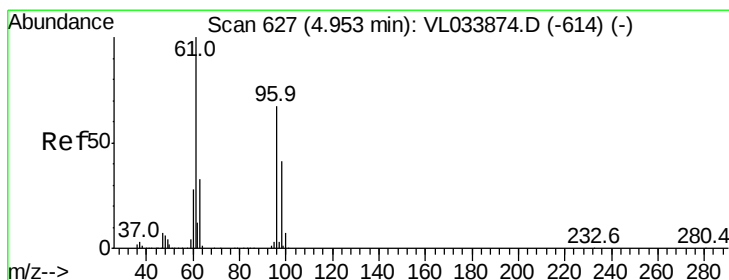
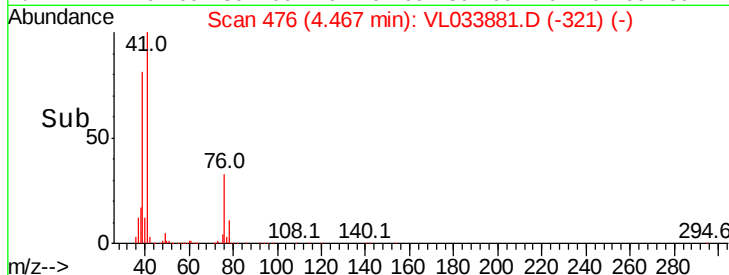
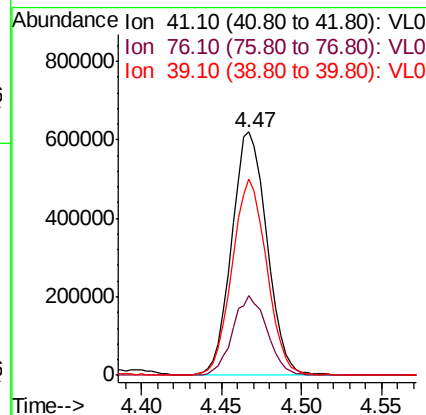
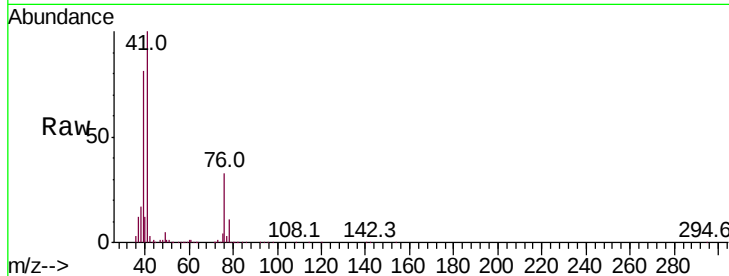
#21
Allvl Chloride
Concen: 10.588 ppbv
RT: 4.47 min Scan# 476
Delta R.T. -0.00 min
Lab File: VL033881.D
Acq: 7 Jun 2019 7:12

Instrument :
MSVOA_L
ClientSampleId :
ICVVL060719

Tot Ion	Ratio	Lower	Upper
41	100		
76	32.3	26.6	39.8
39	80.2	65.2	97.8

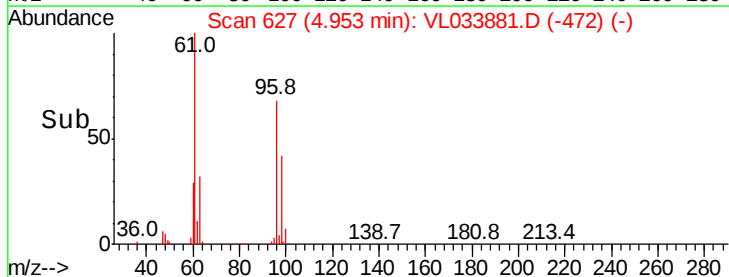
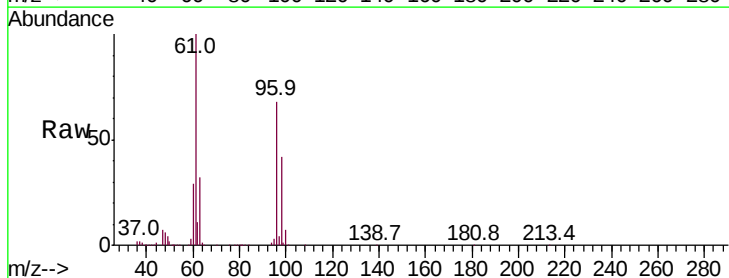
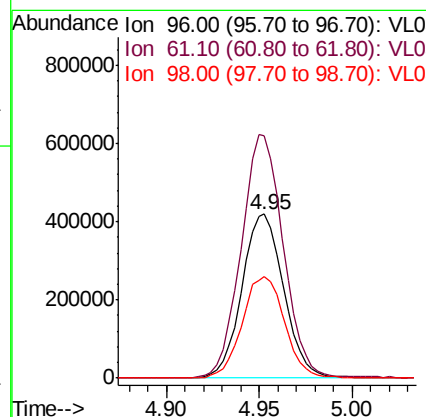
Manual Integrations
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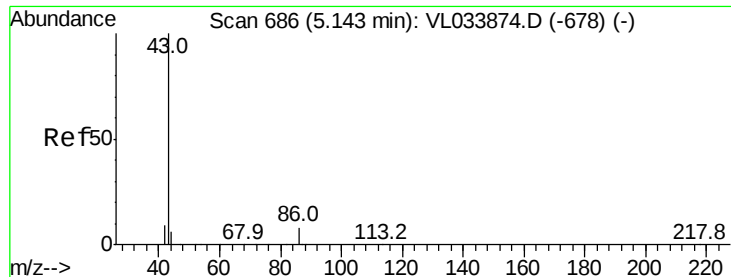
MMDadoda
6/11/2019 9:18:46 AM



#22
trans-1,2-Dichloroethene
Concen: 9.929 ppbv
RT: 4.95 min Scan# 627
Delta R.T. -0.00 min
Lab File: VL033881.D
Acq: 7 Jun 2019 7:12

Tgt Ion	Ratio	Lower	Upper
96	100		
61	147.7	119.0	178.6
98	61.7	48.3	72.5





#23
 Vinyl Acetate
 Concen: 11.250 ppbv
 RT: 5.15 min Scan# 687
 Delta R.T. 0.00 min
 Lab File: VL033881.D
 Acq: 7 Jun 2019 7:12

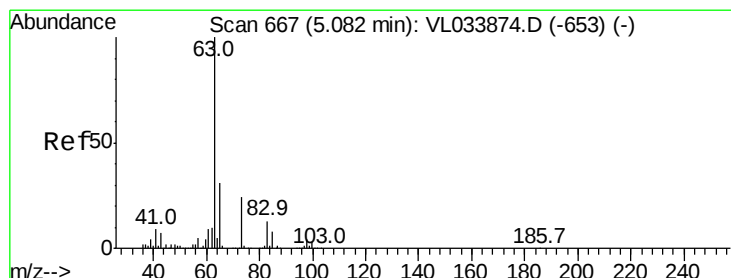
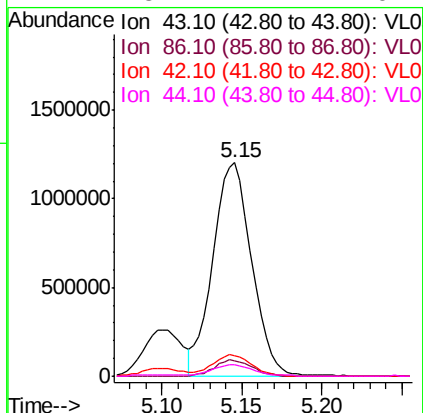
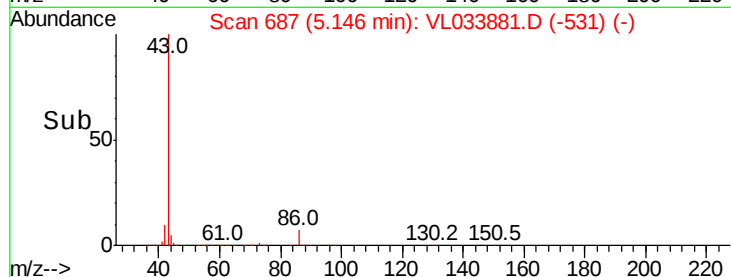
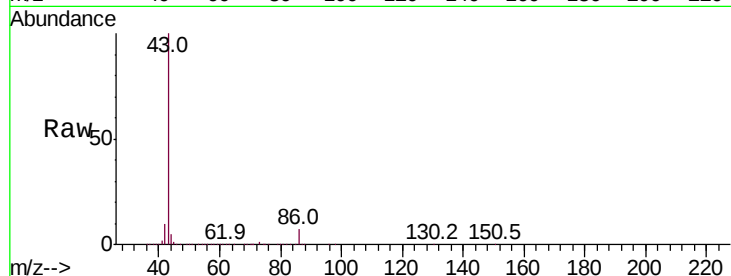
Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL060719

Tot Ion: 43 Resp: 2006675

Ion	Ratio	Lower	Upper
43	100		
86	7.5	5.8	8.8
42	9.6	7.8	11.8
44	5.2	4.2	6.4

Manual Integrations
 APPROVED

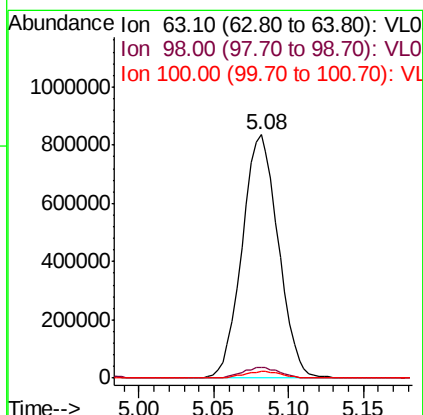
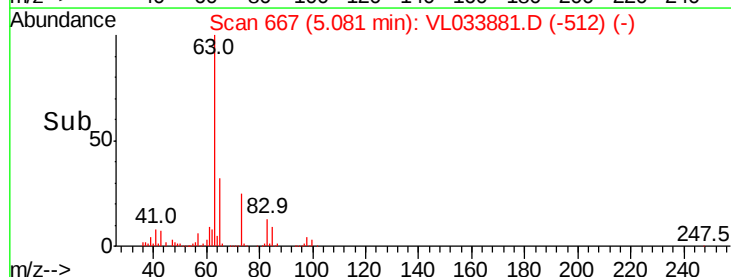
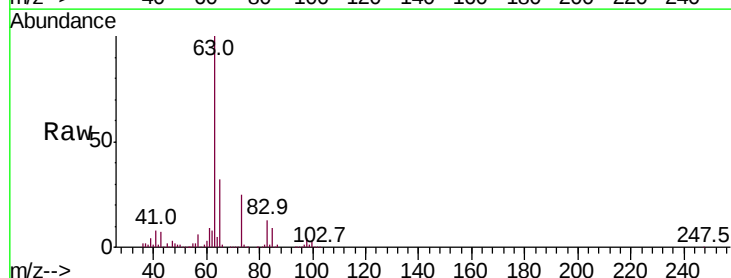
MMDadoda
 6/11/2019 9:18:46 AM

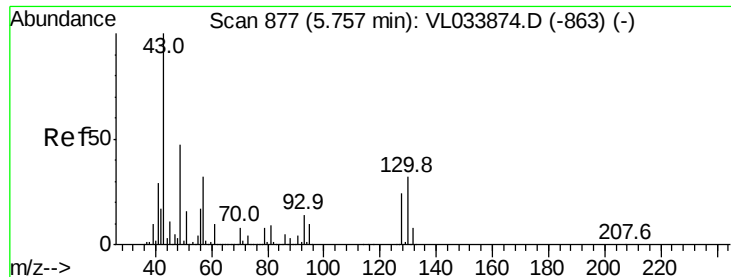


#24
 1,1-Dichloroethane
 Concen: 10.168 ppbv
 RT: 5.08 min Scan# 667
 Delta R.T. -0.00 min
 Lab File: VL033881.D
 Acq: 7 Jun 2019 7:12

Tgt Ion: 63 Resp: 1410771

Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.2	6.6
100	2.7	1.3	3.8





#25

Ethyl Acetate

Concen: 10.250 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.00 min

Lab File: VL033881.D

Acq: 7 Jun 2019 7:12

Instrument :

MSVOA_L

ClientSampleId :

ICVVL060719

Tot Ion: 43 Resp: 2395581

Ion Ratio Lower Upper

43 100

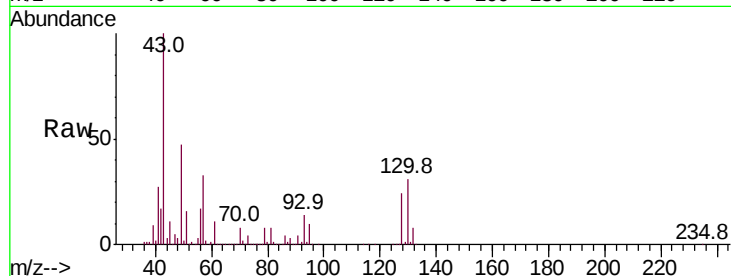
45 10.0 7.9 11.9

61 9.5 7.8 11.6

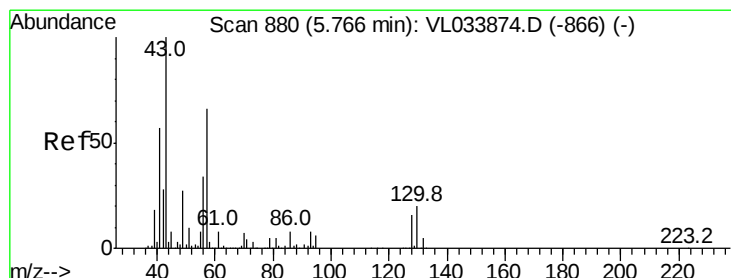
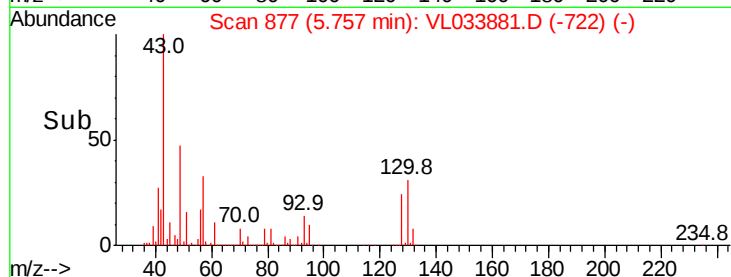
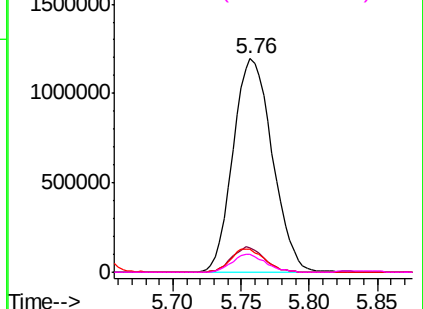
70 7.3 5.8 8.6

Manual Integrations
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6/11/2019 9:18:46 AM



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 9.982 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL033881.D

Acq: 7 Jun 2019 7:12

Tgt Ion: 57 Resp: 1062201

Ion Ratio Lower Upper

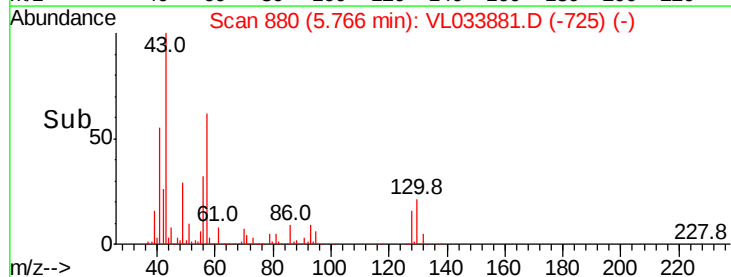
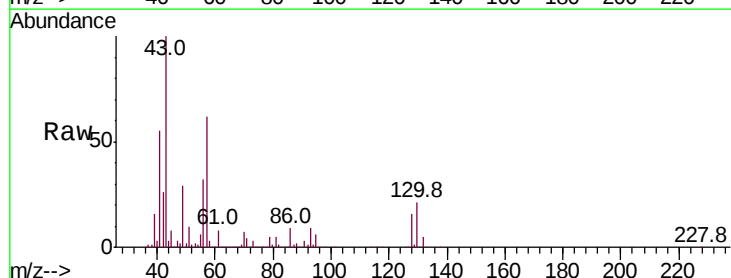
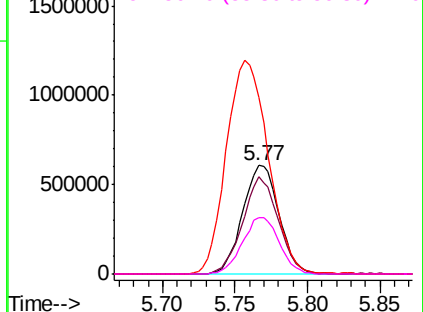
57 100

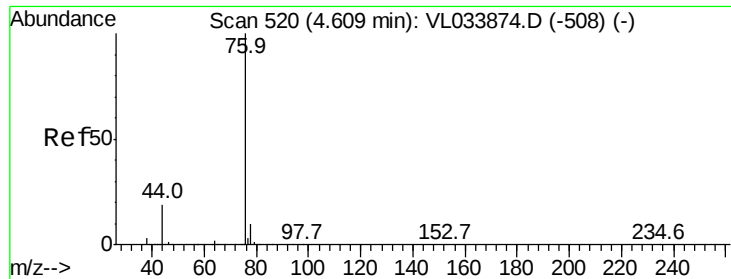
41 87.8 71.4 107.2

43 226.3 183.7 275.5

56 52.7 42.7 64.1

Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





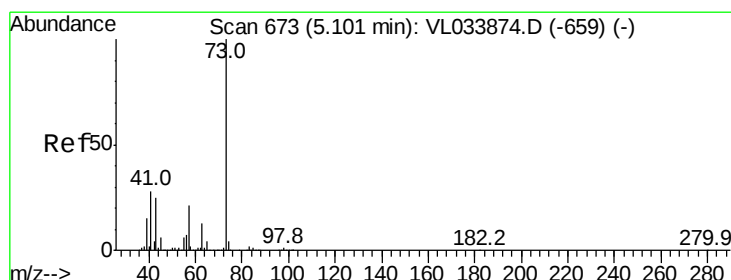
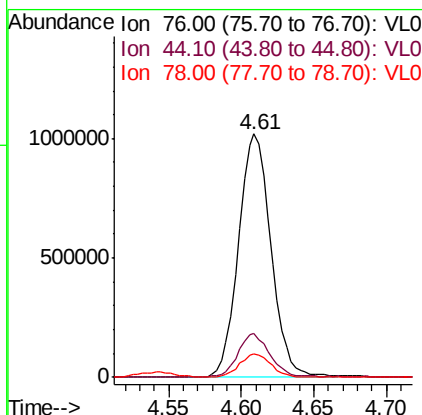
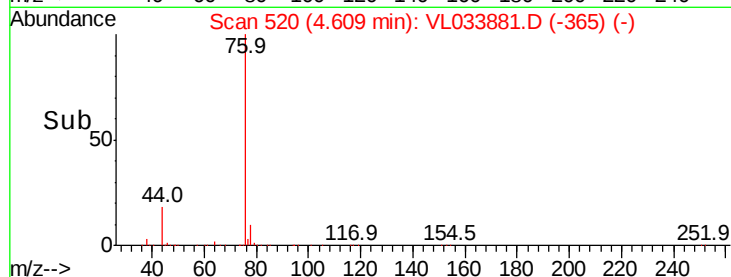
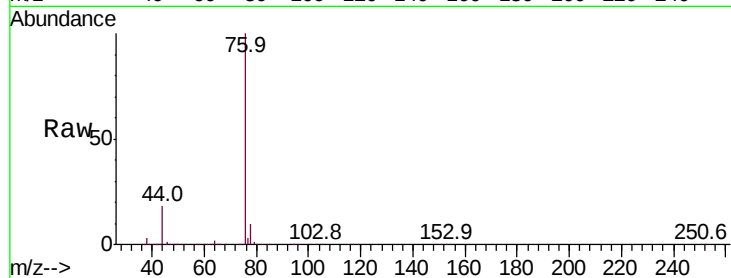
#27
Carbon Disulfide
Concen: 10.733 ppbv
RT: 4.61 min Scan# 520
Delta R.T. -0.00 min
Lab File: VL033881.D
Acq: 7 Jun 2019 7:12

Instrument :
MSVOA_L
ClientSampleId :
ICVVL060719

Tot Ion	Ratio	Lower	Upper
76	100		
44	17.0	14.4	21.6
78	9.3	7.5	11.3

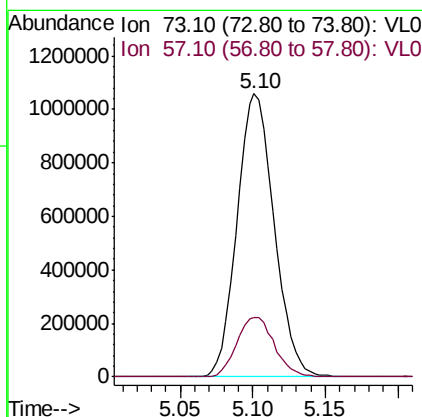
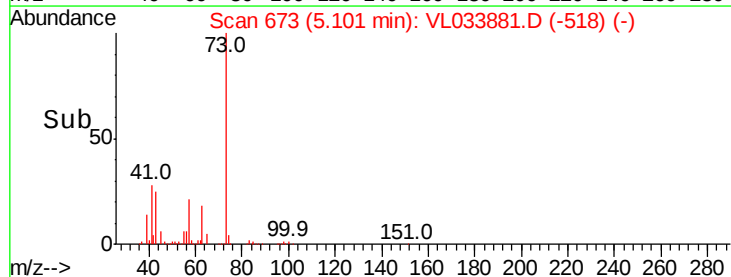
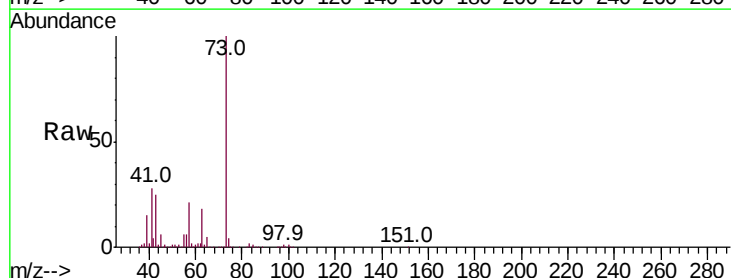
Manual Integrations
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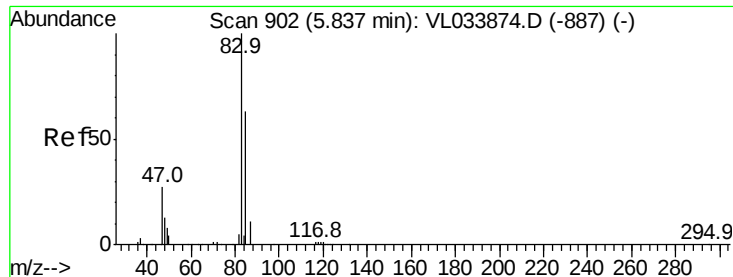
MMDadoda
6/11/2019 9:18:46 AM



#28
Methyl tert-Butyl Ether
Concen: 11.688 ppbv
RT: 5.10 min Scan# 673
Delta R.T. -0.00 min
Lab File: VL033881.D
Acq: 7 Jun 2019 7:12

Tgt Ion	Ratio	Lower	Upper
73	100		
57	21.5	17.2	25.8





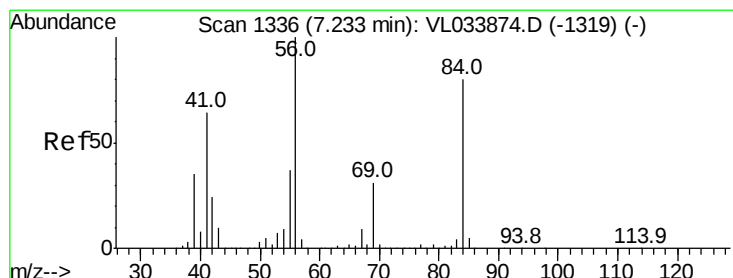
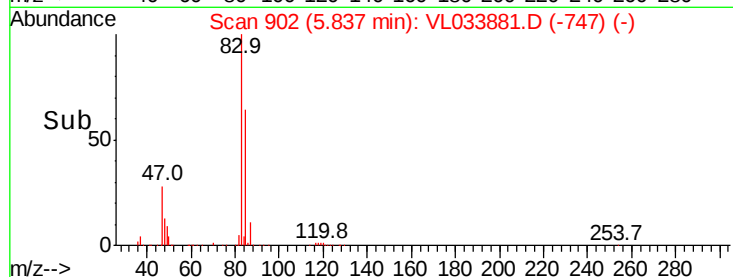
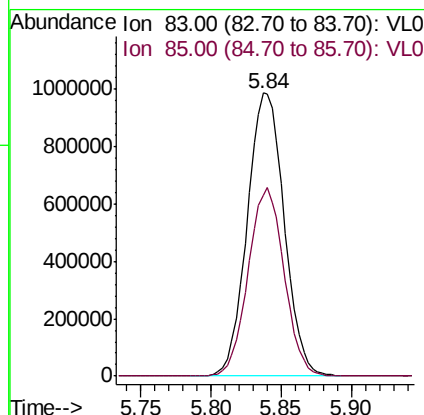
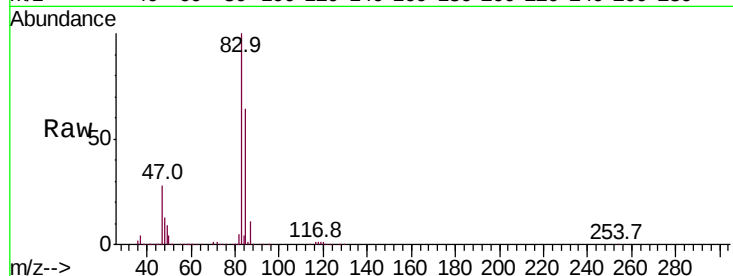
#29
Chloroform
Concen: 9.952 ppbv
RT: 5.84 min Scan# 902
Delta R.T. -0.00 min
Lab File: VL033881.D
Acq: 7 Jun 2019 7:12

Instrument :
MSVOA_L
ClientSampleId :
ICVVL060719

Tot Ion: 83 Resp: 1813677
Ion Ratio Lower Upper
83 100
85 64.0 50.5 75.7

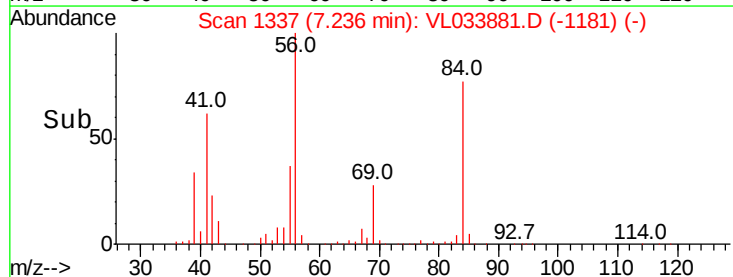
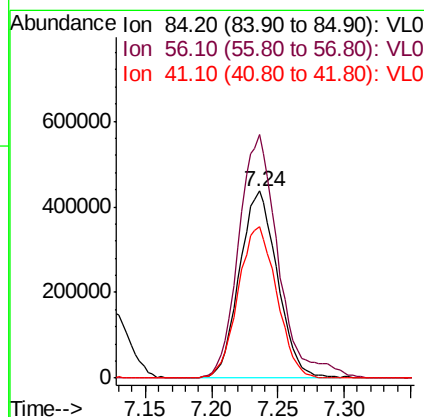
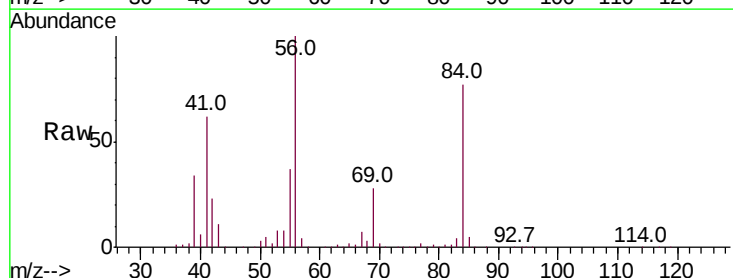
Manual Integrations
APPROVED

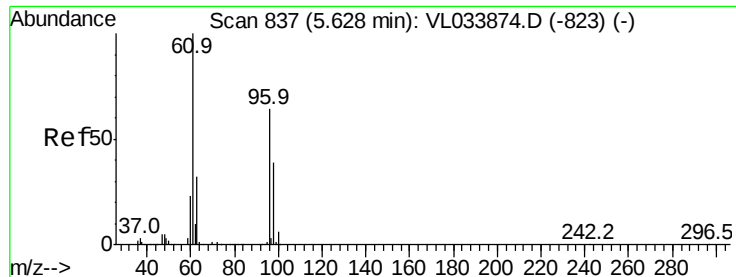
MMDadoda
6/11/2019 9:18:46 AM



#30
Cyclohexane
Concen: 11.555 ppbv
RT: 7.24 min Scan# 1337
Delta R.T. 0.00 min
Lab File: VL033881.D
Acq: 7 Jun 2019 7:12

Tgt Ion: 84 Resp: 868746
Ion Ratio Lower Upper
84 100
56 136.1 105.8 158.8
41 82.3 65.7 98.5





#31

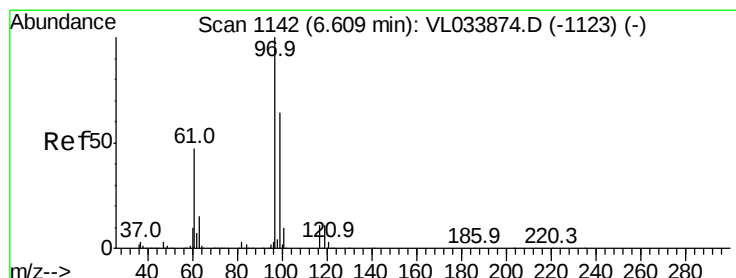
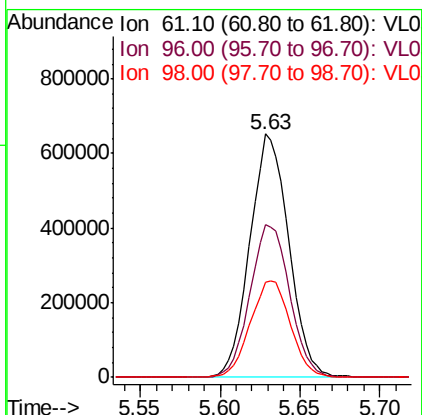
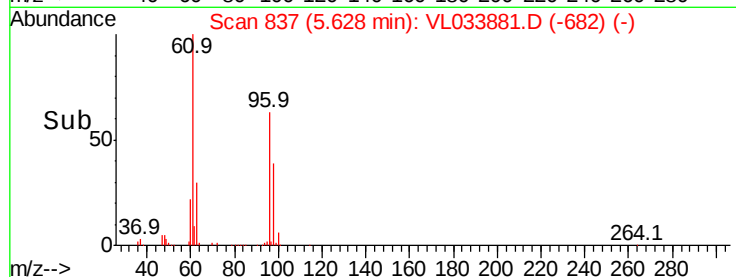
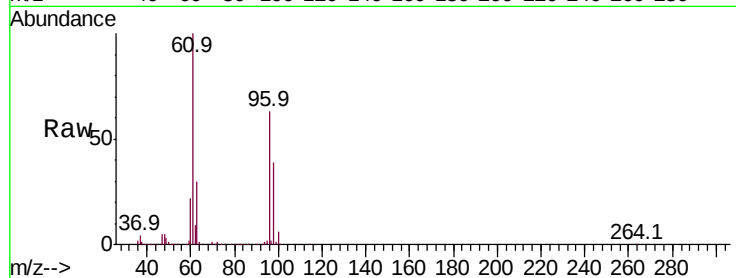
cis-1,2-Dichloroethene
 Concen: 11.649 ppbv
 RT: 5.63 min Scan# 837
 Delta R.T. -0.00 min
 Lab File: VL033881.D
 Acq: 7 Jun 2019 7:12

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL060719

Tot Ion	Ratio	Lower	Upper
61	100		
96	63.0	50.9	76.3
98	39.0	31.4	47.2

Manual Integrations
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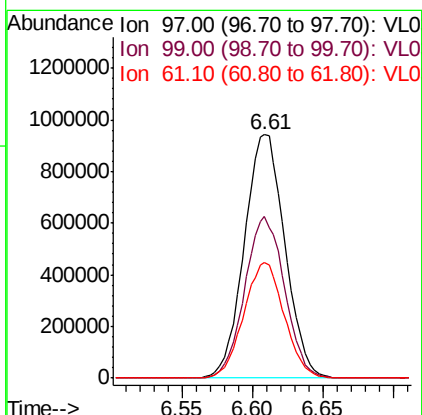
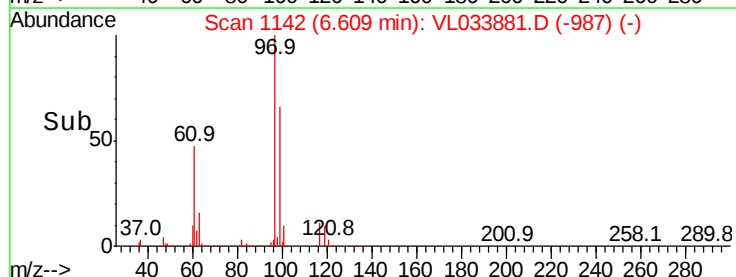
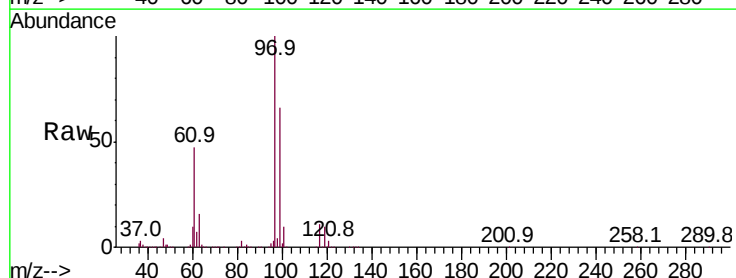
MMDadoda
 6/11/2019 9:18:46 AM

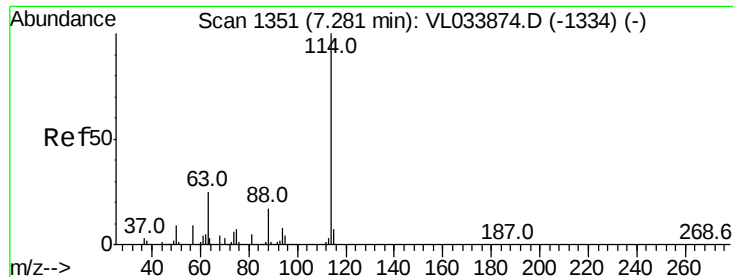


#32

1,1,1-Trichloroethane
 Concen: 10.815 ppbv
 RT: 6.61 min Scan# 1142
 Delta R.T. -0.00 min
 Lab File: VL033881.D
 Acq: 7 Jun 2019 7:12

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.2	51.7	77.5
61	47.4	37.7	56.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.28 min Scan# 1352

Delta R.T. 0.00 min

Lab File: VL033881.D

Acq: 7 Jun 2019 7:12

Instrument :

MSVOA_L

ClientSampleId :

ICVVL060719

Tot Ion:114 Resp: 2448612

Ion Ratio Lower Upper

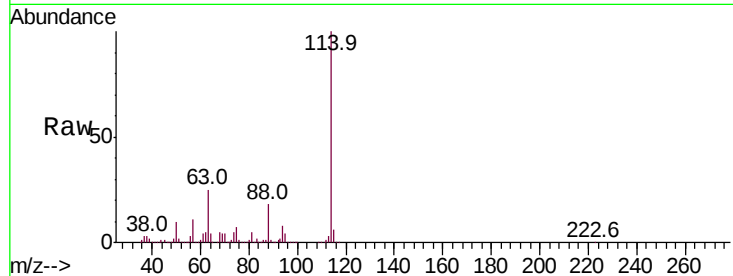
114 100

63 26.5 21.1 31.7

88 18.2 14.2 21.4

Manual Integrations
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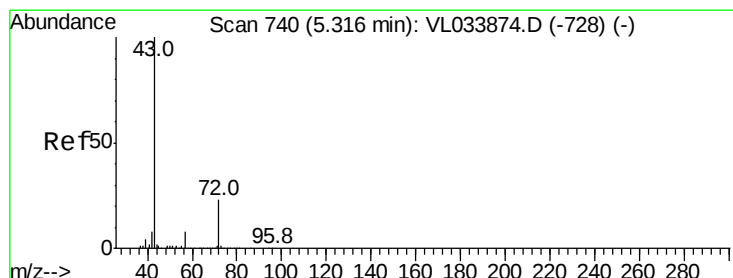
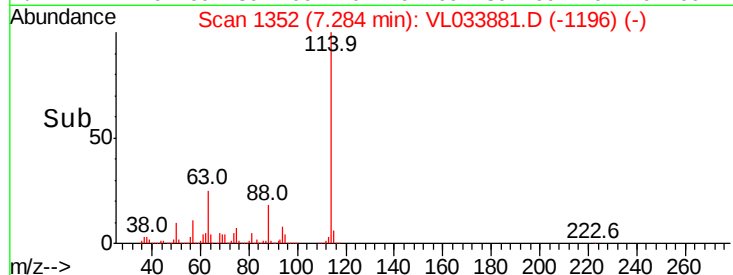
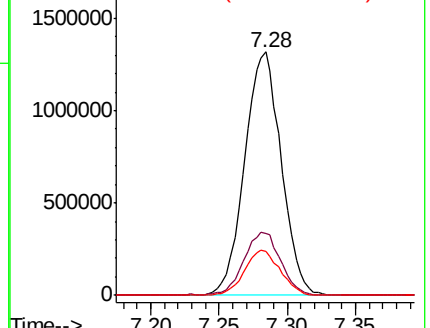
MMDadoda
6/11/2019 9:18:46 AM



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: 11.448 ppbv

RT: 5.32 min Scan# 740

Delta R.T. -0.00 min

Lab File: VL033881.D

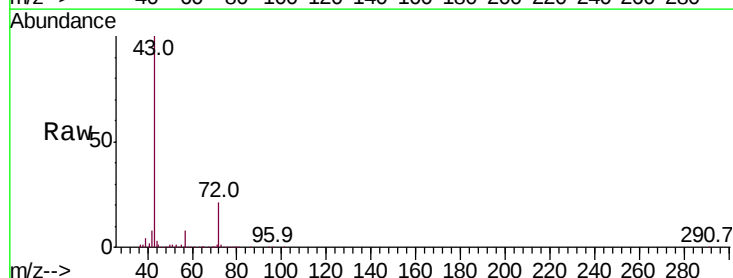
Acq: 7 Jun 2019 7:12

Tgt Ion: 43 Resp: 1581333

Ion Ratio Lower Upper

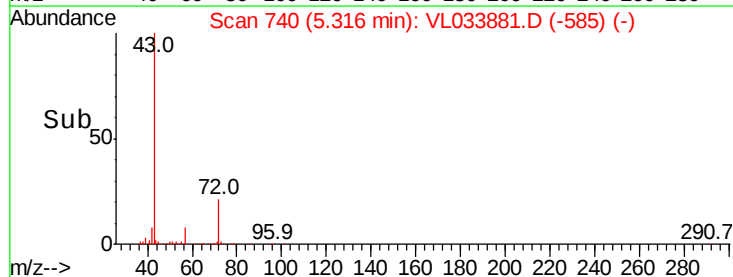
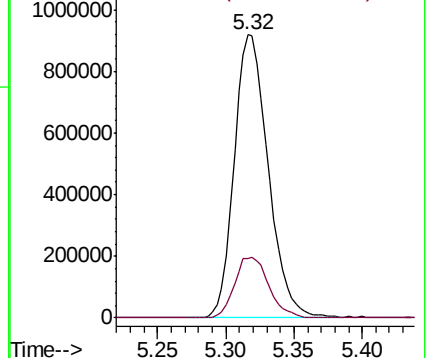
43 100

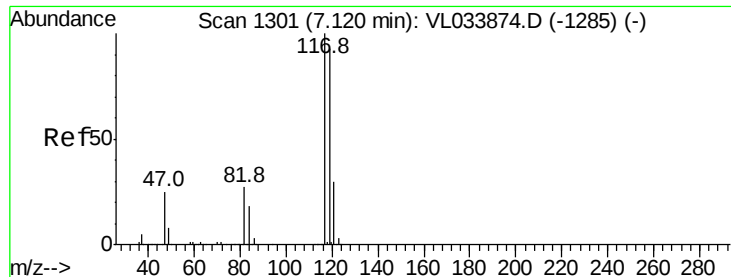
72 22.1 17.9 26.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 10.541 ppbv

RT: 7.12 min Scan# 1301

Delta R.T. -0.00 min

Lab File: VL033881.D

Acq: 7 Jun 2019 7:12

Instrument :

MSVOA_L

ClientSampleId :

ICVVL060719

Tot Ion:117 Resp: 1994120

Ion Ratio Lower Upper

117 100

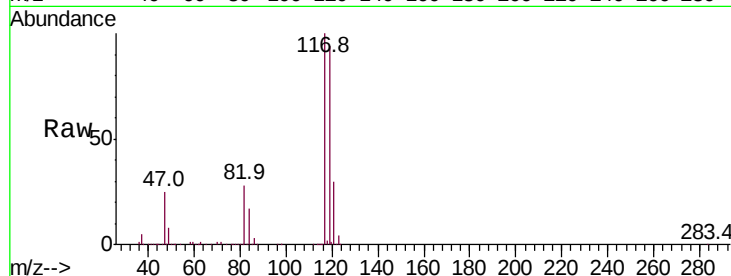
119 94.4 74.6 111.8

121 30.3 24.0 36.0

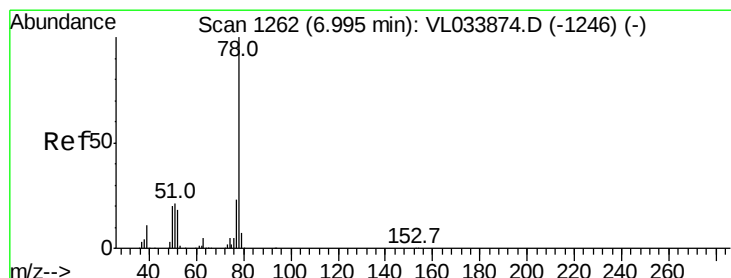
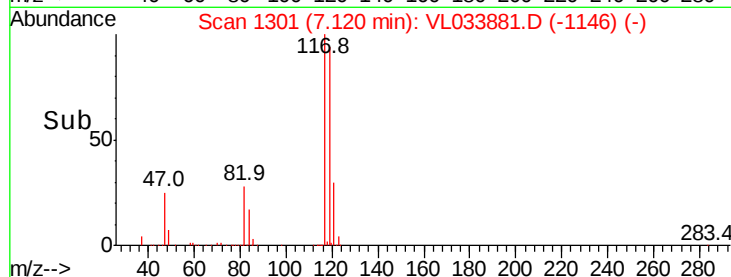
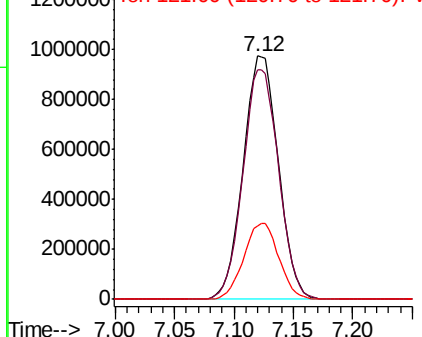
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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 11.647 ppbv

RT: 6.99 min Scan# 1262

Delta R.T. -0.00 min

Lab File: VL033881.D

Acq: 7 Jun 2019 7:12

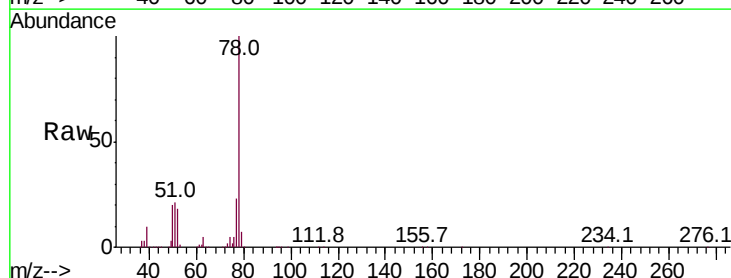
Tgt Ion: 78 Resp: 2178475

Ion Ratio Lower Upper

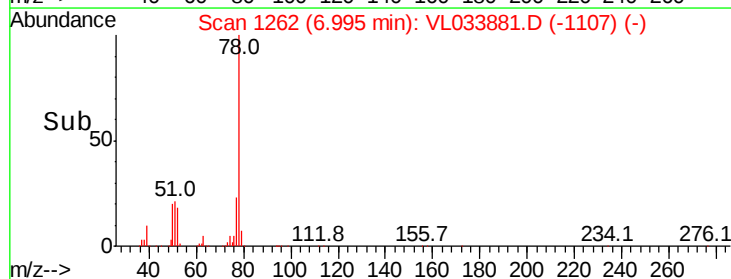
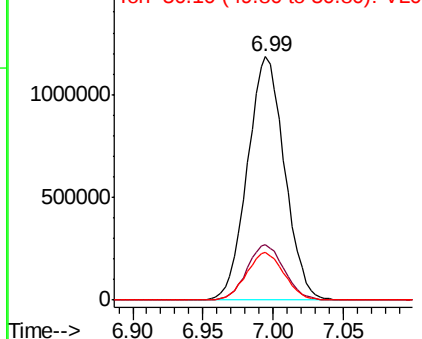
78 100

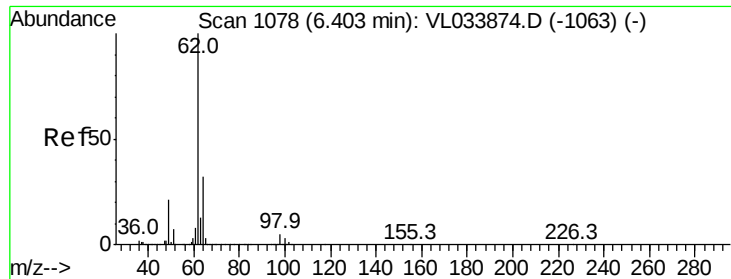
77 22.6 18.2 27.2

50 19.6 15.9 23.9



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





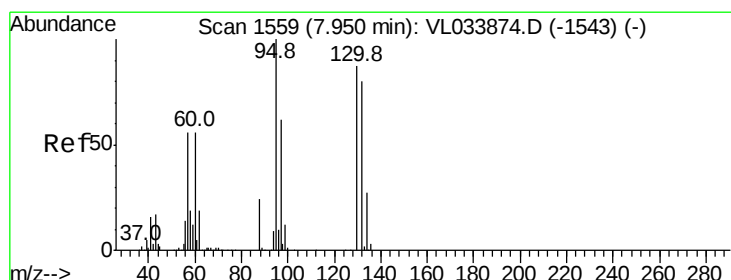
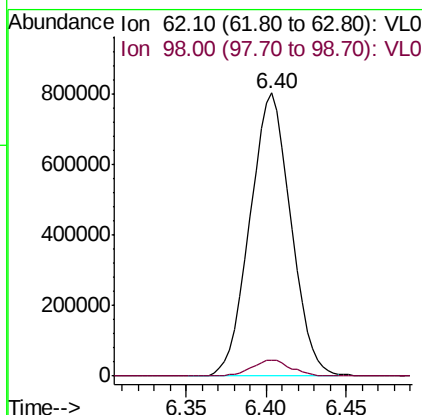
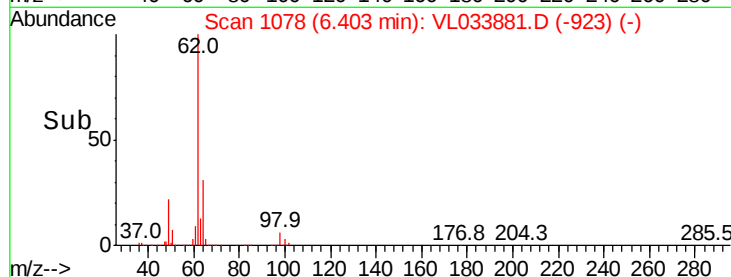
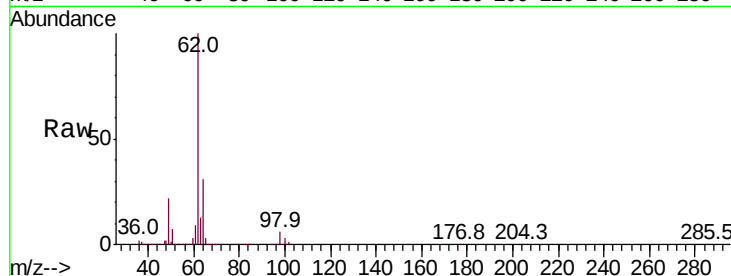
#37
 1,2-Dichloroethane
 Concen: 10.197 ppbv
 RT: 6.40 min Scan# 1078
 Delta R.T. -0.00 min
 Lab File: VL033881.D
 Acq: 7 Jun 2019 7:12

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL060719

Tot Ion: 62 Resp: 1410517
 Ion Ratio Lower Upper
 62 100
 98 5.5 4.0 6.0

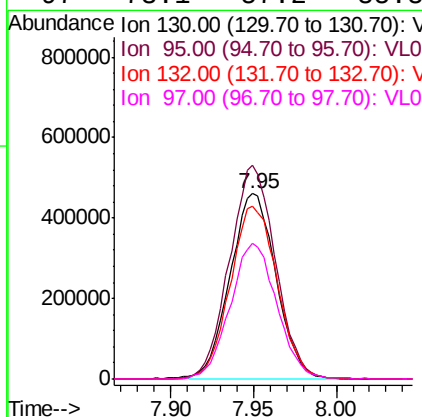
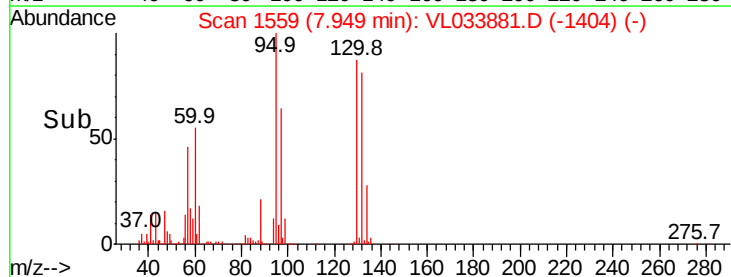
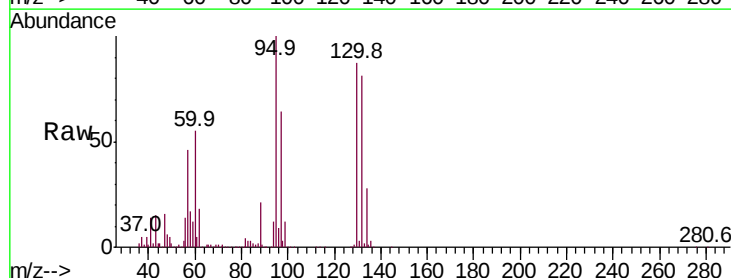
Manual Integrations
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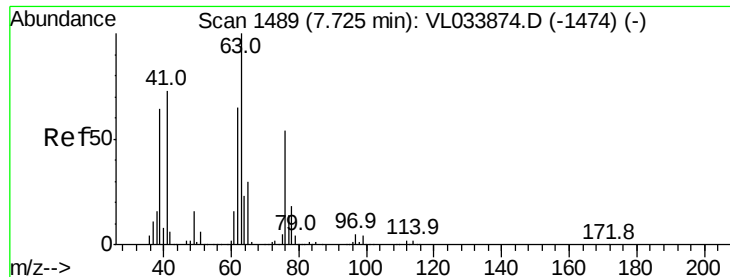
MMDadoda
 6/11/2019 9:18:46 AM



#38
 Trichloroethene
 Concen: 12.206 ppbv
 RT: 7.95 min Scan# 1559
 Delta R.T. -0.00 min
 Lab File: VL033881.D
 Acq: 7 Jun 2019 7:12

Tgt Ion:130 Resp: 888920
 Ion Ratio Lower Upper
 130 100
 95 114.8 92.0 138.0
 132 92.7 73.8 110.8
 97 73.1 57.2 85.8





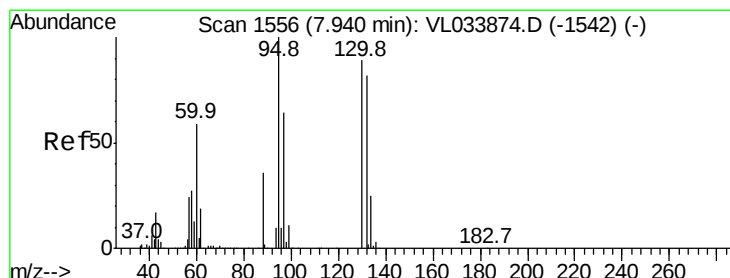
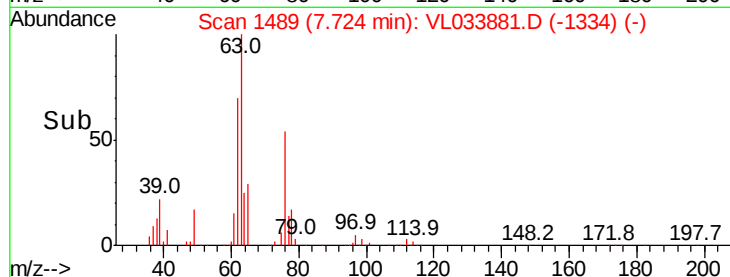
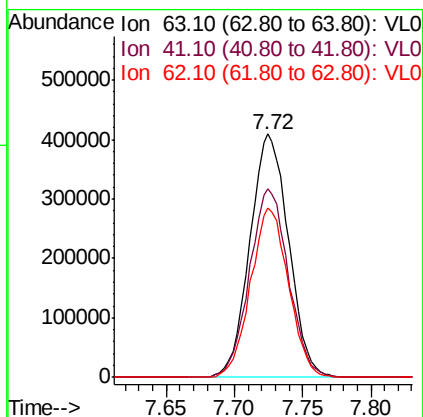
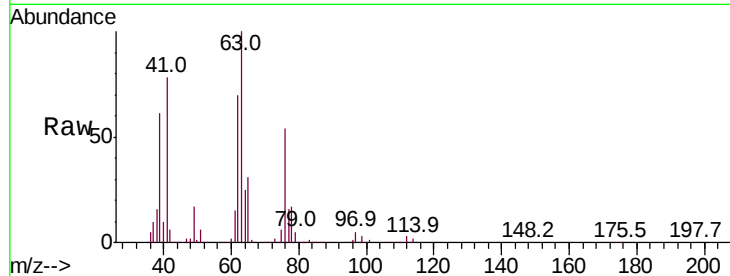
#39
 1,2-Dichloropropane
 Concen: 11.152 ppbv
 RT: 7.72 min Scan# 1489
 Delta R.T. -0.00 min
 Lab File: VL033881.D
 Acq: 7 Jun 2019 7:12

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL060719

Tot Ion	Ratio	Lower	Upper
63	100		
41	77.6	58.7	88.1
62	69.8	51.9	77.9

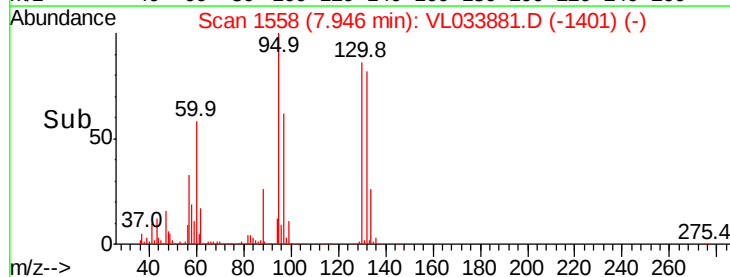
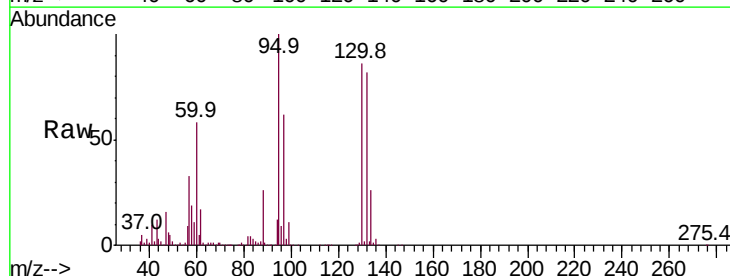
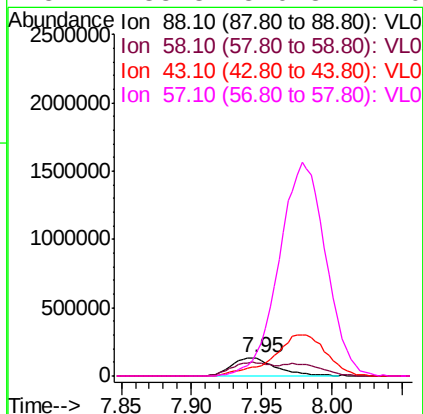
Manual Integrations
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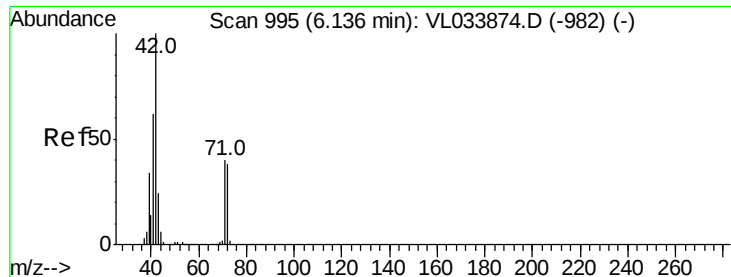
MMDadoda
 6/11/2019 9:18:46 AM



#40
 1,4-Dioxane
 Concen: 9.946 ppbv
 RT: 7.95 min Scan# 1558
 Delta R.T. 0.01 min
 Lab File: VL033881.D
 Acq: 7 Jun 2019 7:12

Tgt Ion	Ratio	Lower	Upper
88	100		
58	130.3	100.0	150.0
43	271.1	184.7	277.1
57	1238.3	826.8	1240.2





#41

Tetrahydrofuran

Concen: 12.286 ppbv

RT: 6.13 min Scan# 994

Delta R.T. -0.00 min

Lab File: VL033881.D

Acq: 7 Jun 2019 7:12

Instrument :

MSVOA_L

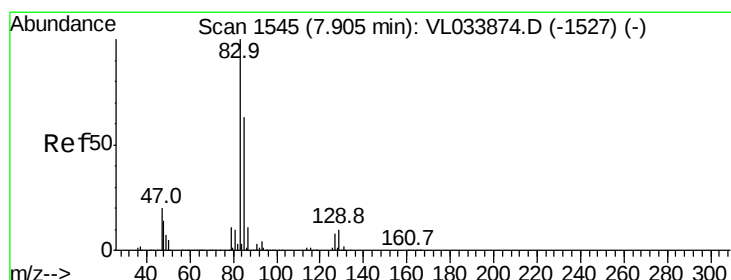
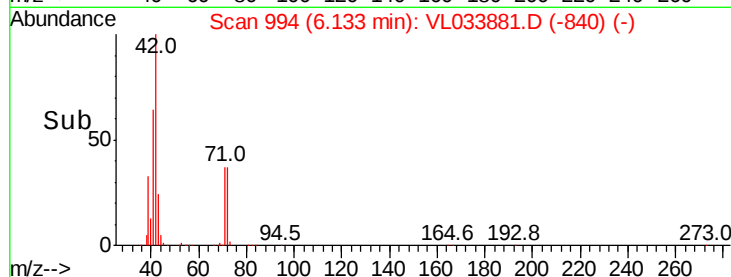
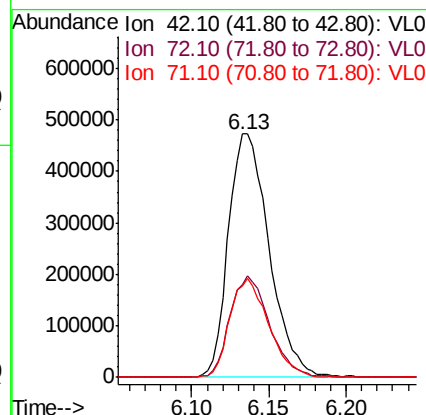
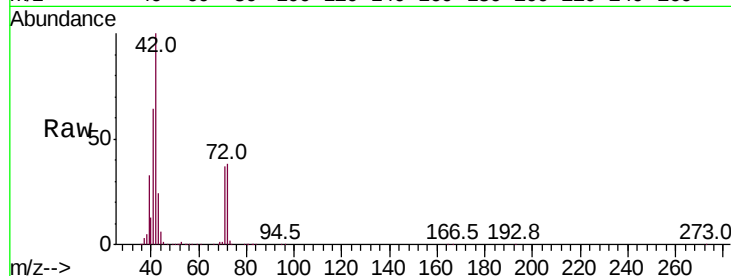
ClientSampleId :

ICVVL060719

Tot Ion:	42	Resp:	861440
Ion Ratio	Lower	Upper	
42	100		
72	40.6	32.2	48.4
71	39.0	31.7	47.5

Manual Integrations
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#42

Bromodichloromethane

Concen: 10.682 ppbv

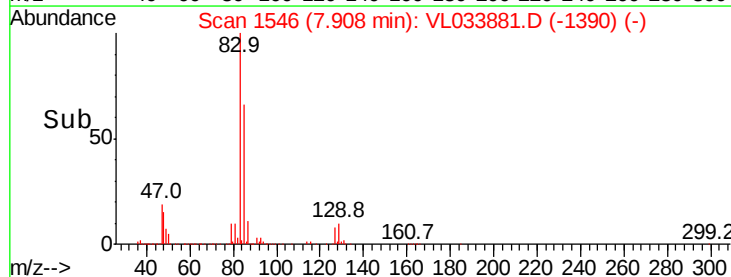
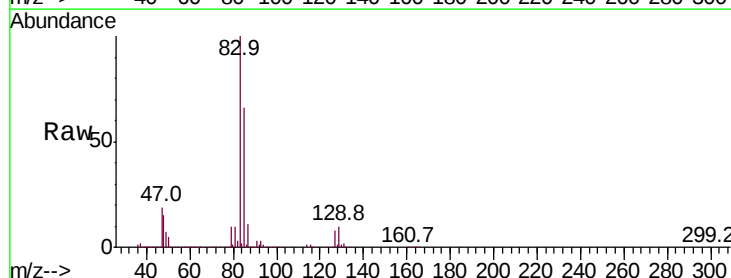
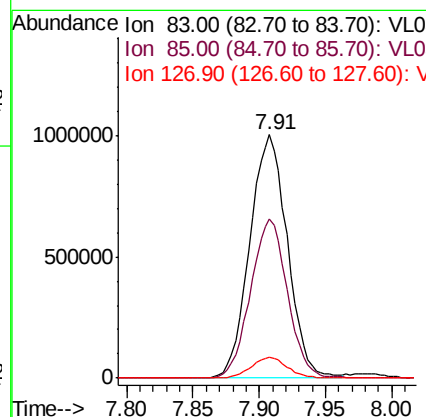
RT: 7.91 min Scan# 1546

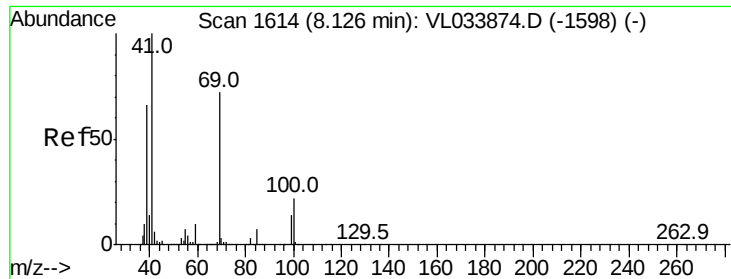
Delta R.T. 0.00 min

Lab File: VL033881.D

Acq: 7 Jun 2019 7:12

Tgt Ion:	83	Resp:	1974647
Ion Ratio	Lower	Upper	
83	100		
85	65.6	50.2	75.2
127	8.4	6.5	9.7





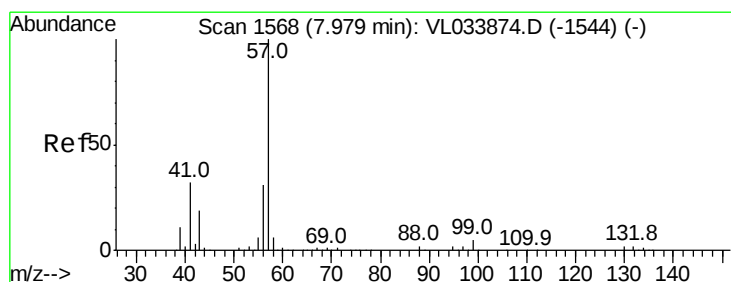
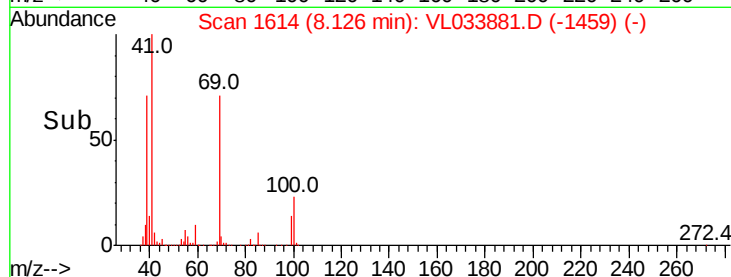
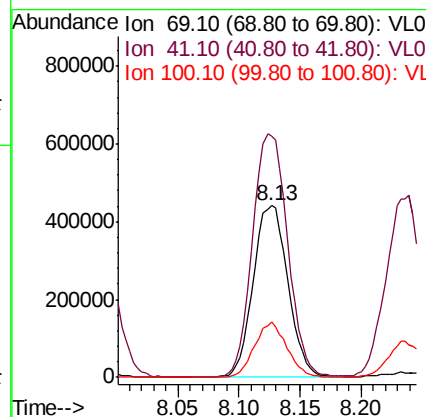
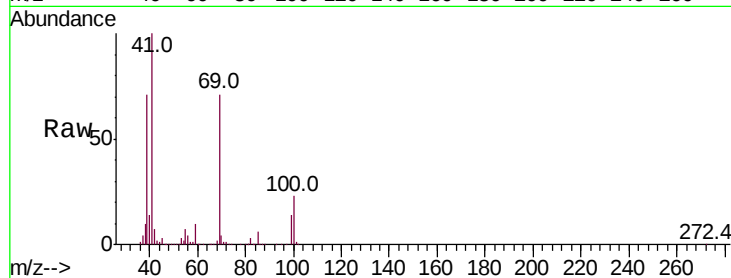
#43
Methvl Methacrylate
Concen: 12.359 ppbv
RT: 8.13 min Scan# 1614
Delta R.T. -0.00 min
Lab File: VL033881.D
Acq: 7 Jun 2019 7:12

Instrument :
MSVOA_L
ClientSampleId :
ICVVL060719

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	143.6	114.3	171.5	
100	30.0	24.8	37.2	

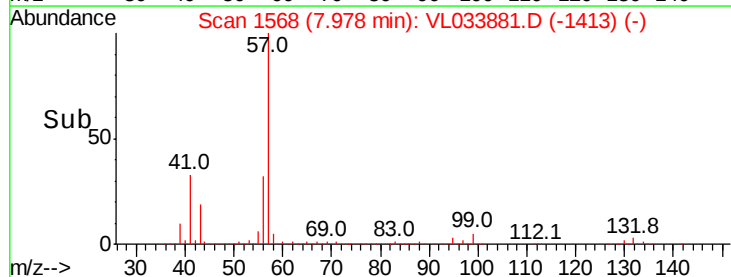
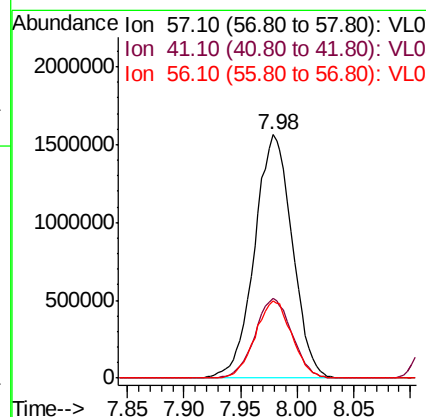
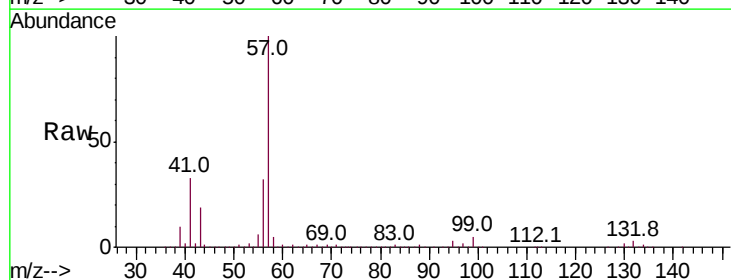
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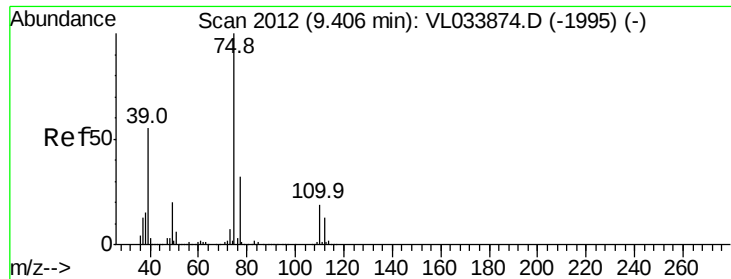
MMDadoda
6/11/2019 9:18:46 AM



#44
2,2,4-Trimethylpentane
Concen: 10.876 ppbv
RT: 7.98 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VL033881.D
Acq: 7 Jun 2019 7:12

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	32.4	26.1	39.1	
56	30.9	24.6	36.8	





#45

t-1,3-Dichloropropene

Concen: 12.892 ppbv

RT: 9.41 min Scan# 2012

Delta R.T. -0.00 min

Lab File: VL033881.D

Acq: 7 Jun 2019 7:12

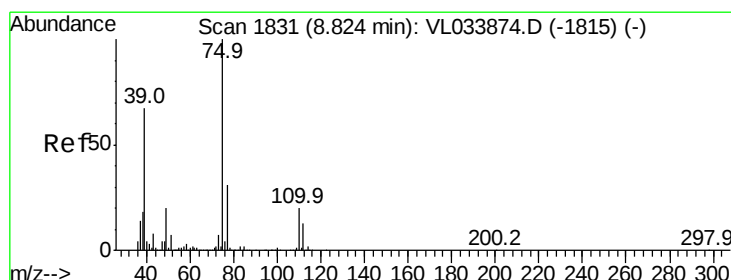
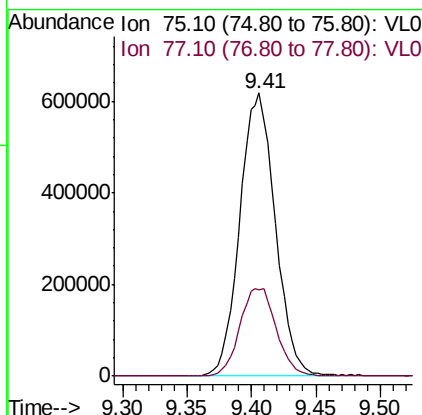
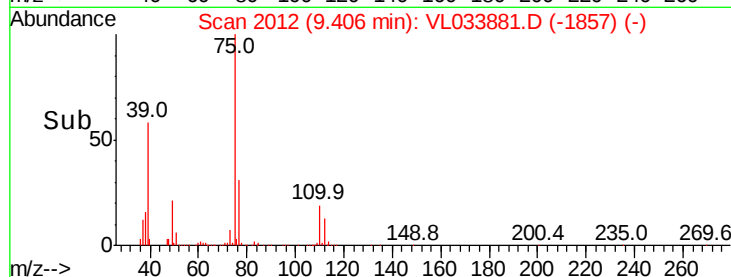
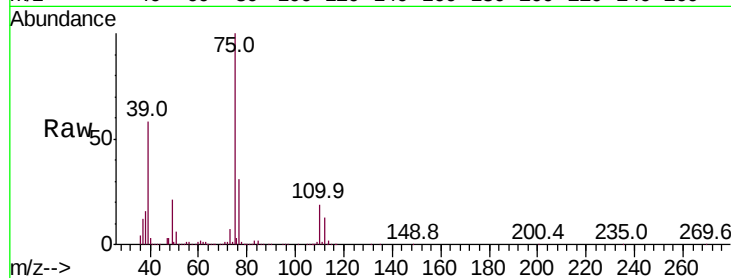
Instrument :
MSVOA_L
ClientSampleId :
ICVVL060719

Tot Ion: 75 Resp: 1183359

Ion	Ratio	Lower	Upper
75	100		
77	30.7	25.4	38.2

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#46

cis-1,3-Dichloropropene

Concen: 12.751 ppbv

RT: 8.82 min Scan# 1831

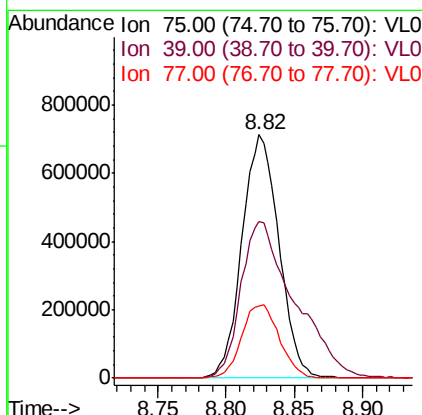
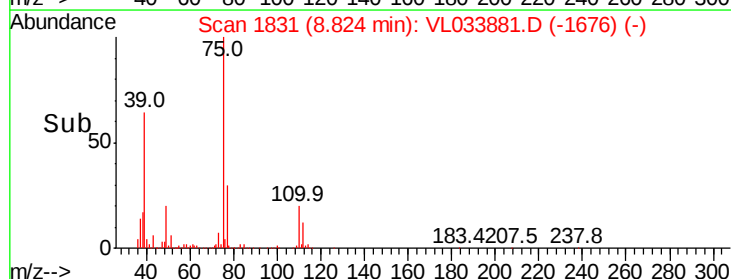
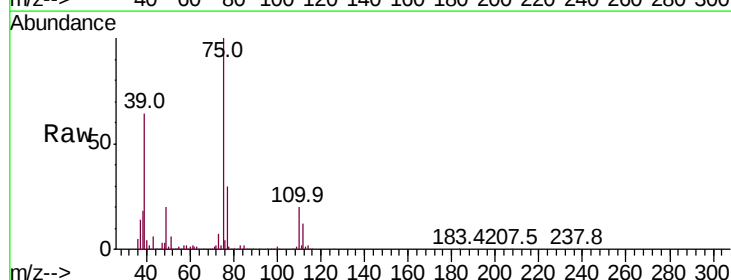
Delta R.T. -0.00 min

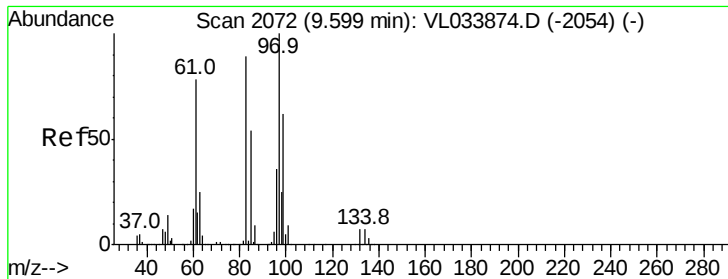
Lab File: VL033881.D

Acq: 7 Jun 2019 7:12

Tgt Ion: 75 Resp: 1340941

Ion	Ratio	Lower	Upper
75	100		
39	64.2	53.8	80.8
77	29.9	24.6	36.8





#47

1,1,2-Trichloroethane

Concen: 10.421 ppbv

RT: 9.61 min Scan# 2074

Delta R.T. 0.01 min

Lab File: VL033881.D

Acq: 7 Jun 2019 7:12

Instrument :

MSVOA_L

ClientSampleId :

ICVVL060719

Tot Ion: 97 Resp: 896810

Ion Ratio Lower Upper

97 100

83 89.8 70.9 106.3

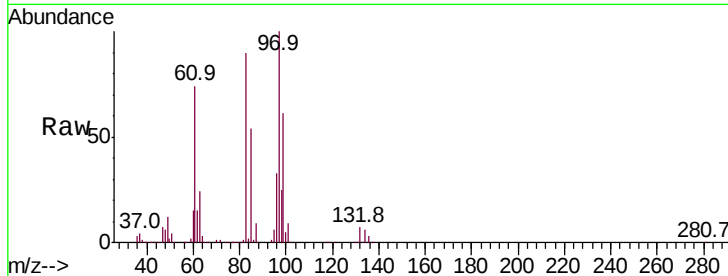
85 54.3 43.0 64.6

99 61.4 49.3 73.9

Manual Integrations
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Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

9.61

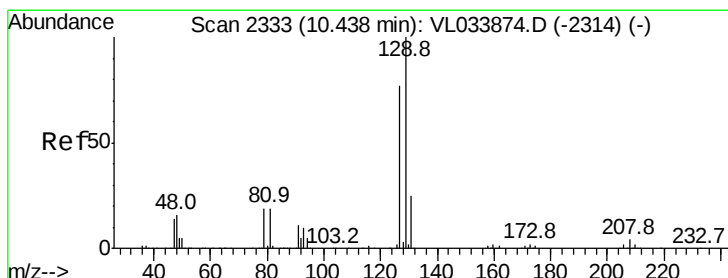
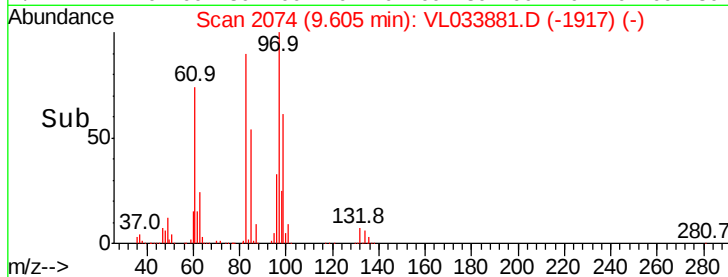
400000

200000

0

9.55 9.60 9.65

Time-->



#48

Dibromochloromethane

Concen: 10.917 ppbv

RT: 10.44 min Scan# 2333

Delta R.T. -0.00 min

Lab File: VL033881.D

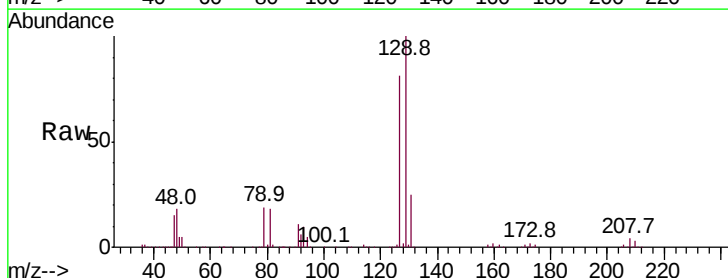
Acq: 7 Jun 2019 7:12

Tgt Ion: 129 Resp: 1688484

Ion Ratio Lower Upper

129 100

127 80.2 38.6 115.7



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

10.44

800000

600000

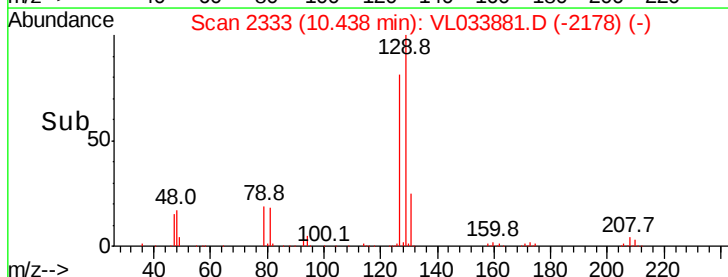
400000

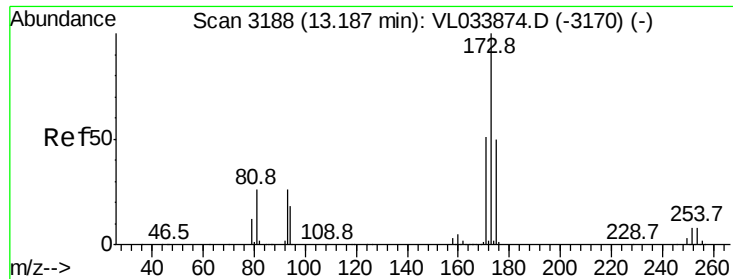
200000

0

10.40 10.50

Time-->





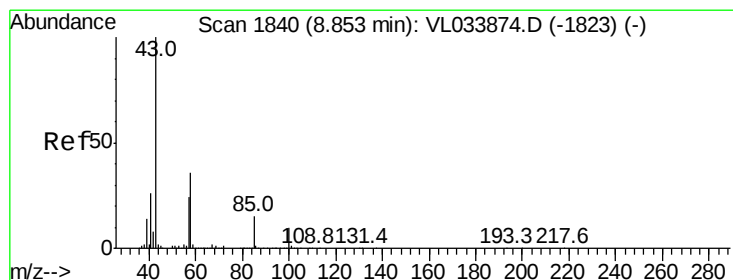
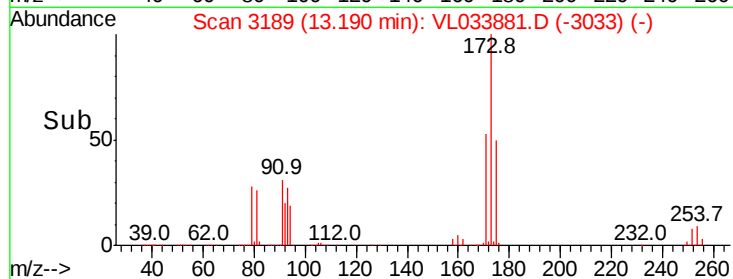
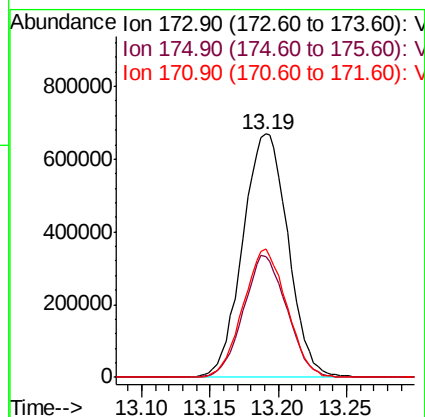
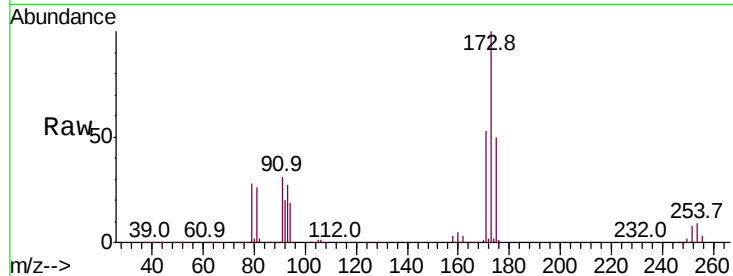
#49
Bromoform
Concen: 11.291 ppbv
RT: 13.19 min Scan# 3189
Delta R.T. 0.00 min
Lab File: VL033881.D
Acq: 7 Jun 2019 7:12

Instrument :
MSVOA_L
ClientSampleId :
ICVVL060719

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.3	39.6	59.4
171	51.0	41.8	62.8

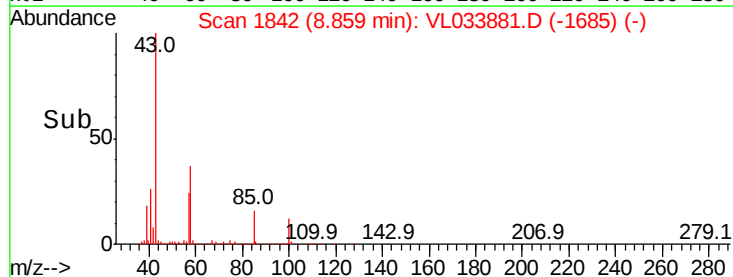
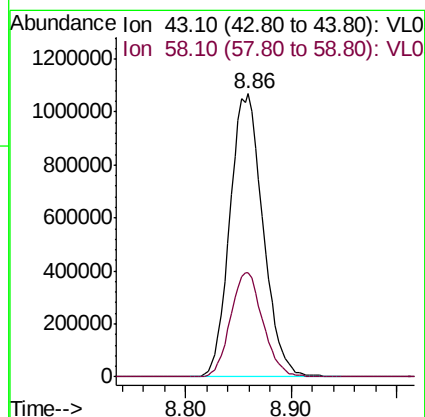
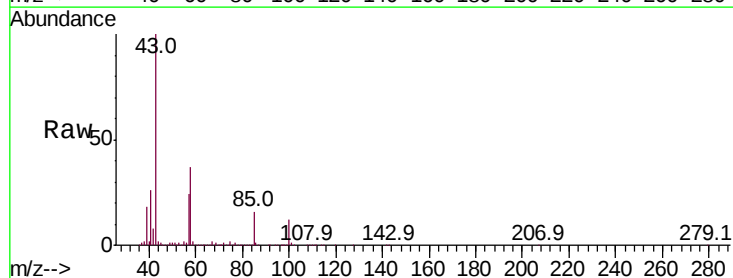
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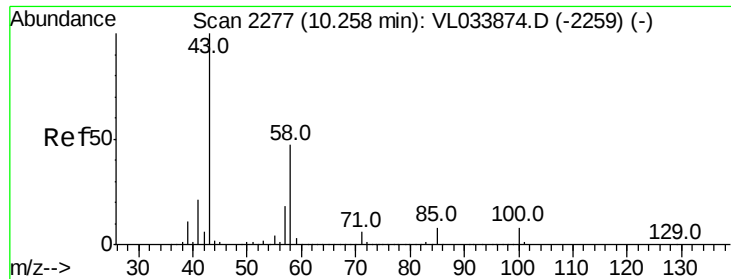
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#50
4-Methyl-2-Pentanone
Concen: 11.284 ppbv
RT: 8.86 min Scan# 1842
Delta R.T. 0.01 min
Lab File: VL033881.D
Acq: 7 Jun 2019 7:12

Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.0	28.6	42.8





#51

2-Hexanone

Concen: 11.883 ppbv

RT: 10.26 min Scan# 2278

Delta R.T. 0.00 min

Lab File: VL033881.D

Acq: 7 Jun 2019 7:12

Instrument :

MSVOA_L

ClientSampleId :

ICVVL060719

Tot Ion: 43 Resp: 1911369

Ion Ratio Lower Upper

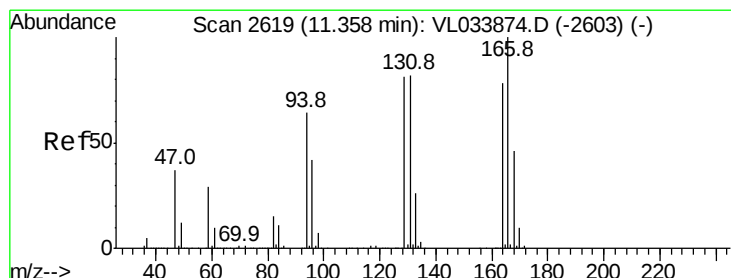
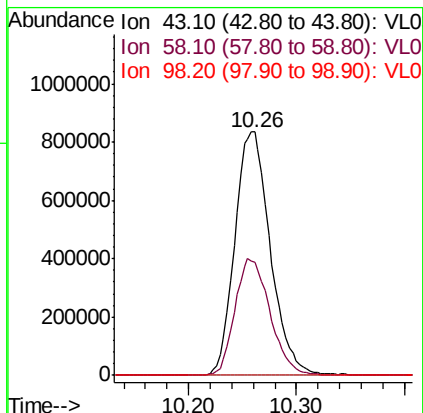
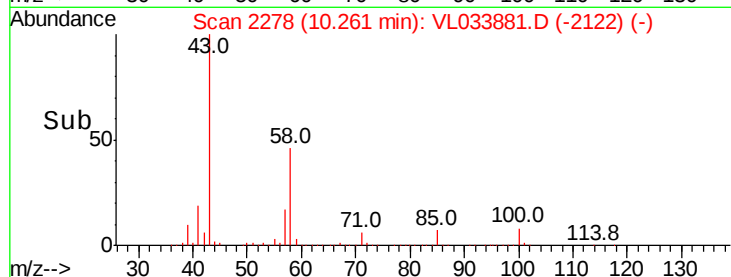
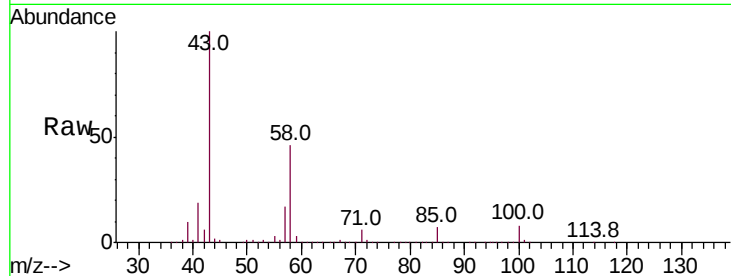
43 100

58 47.6 38.2 57.4

98 0.4 0.2 0.2#

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#52

Tetrachloroethene

Concen: 12.787 ppbv

RT: 11.36 min Scan# 2620

Delta R.T. 0.00 min

Lab File: VL033881.D

Acq: 7 Jun 2019 7:12

Tgt Ion:164 Resp: 841603

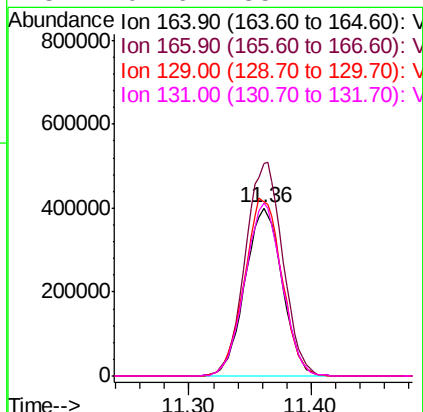
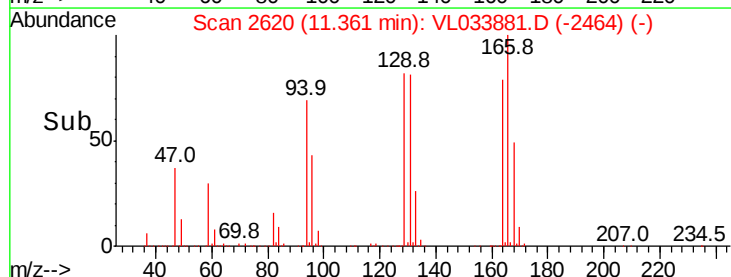
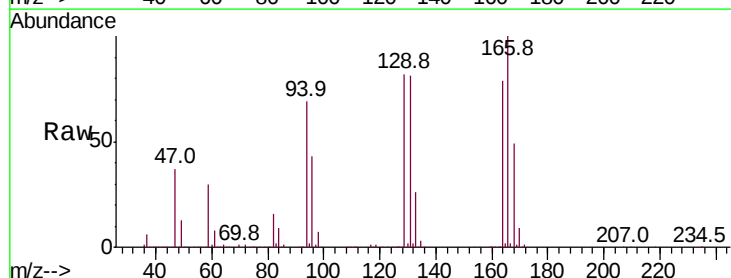
Ion Ratio Lower Upper

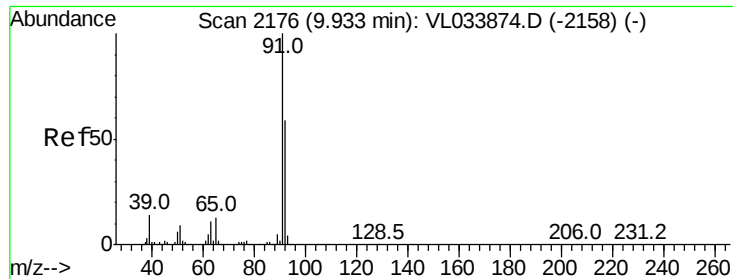
164 100

166 126.6 103.1 154.7

129 103.7 83.9 125.9

131 102.6 85.1 127.7





#53

Toluene

Concen: 12.319 ppbv

RT: 9.93 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VL033881.D

Acq: 7 Jun 2019 7:12

Instrument :

MSVOA_L

ClientSampleId :

ICVVL060719

Tot Ion: 91 Resp: 2549943

Ion Ratio Lower Upper

91 100

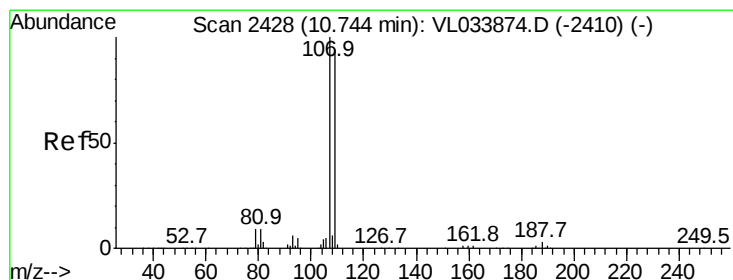
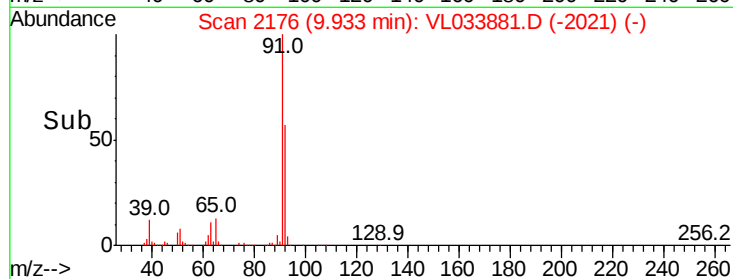
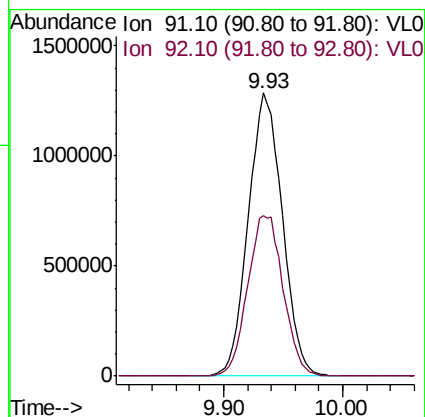
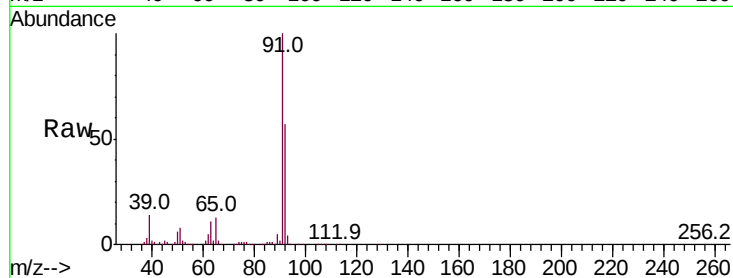
92 59.0 47.0 70.6

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#54

1,2-Dibromoethane

Concen: 11.137 ppbv

RT: 10.75 min Scan# 2429

Delta R.T. 0.00 min

Lab File: VL033881.D

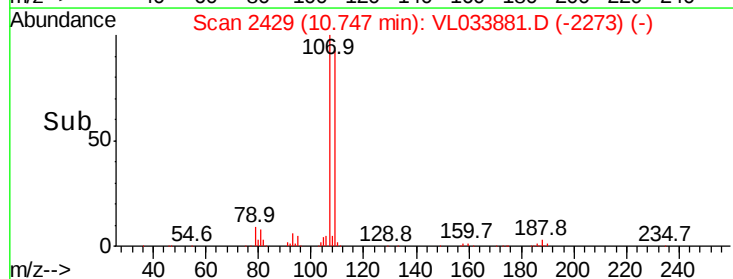
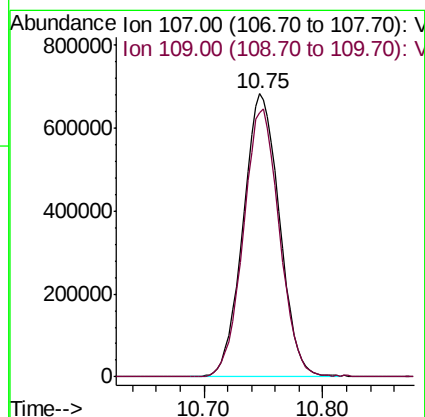
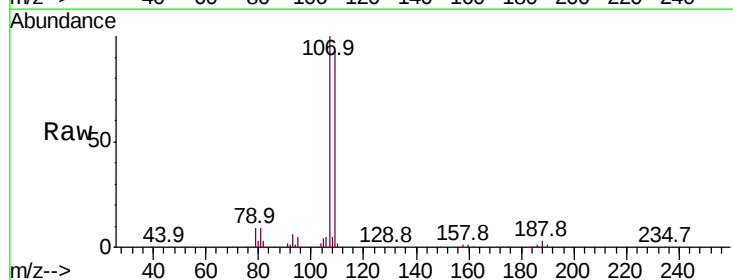
Acq: 7 Jun 2019 7:12

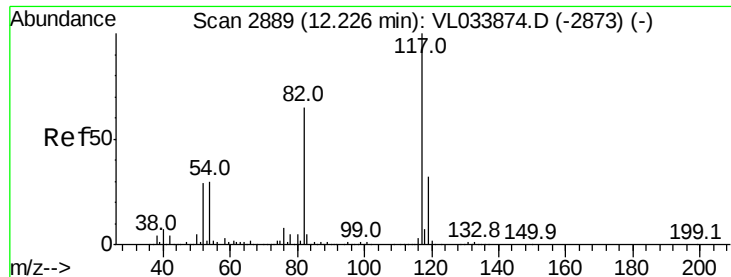
Tgt Ion: 107 Resp: 1444842

Ion Ratio Lower Upper

107 100

109 93.4 74.9 112.3





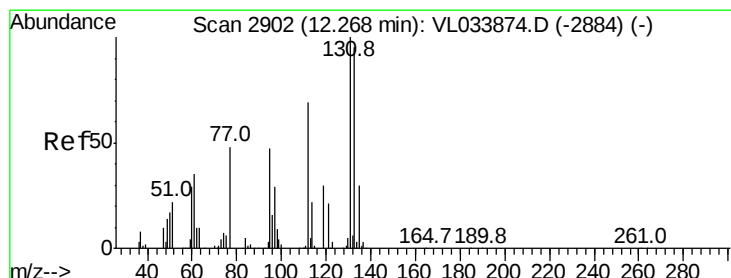
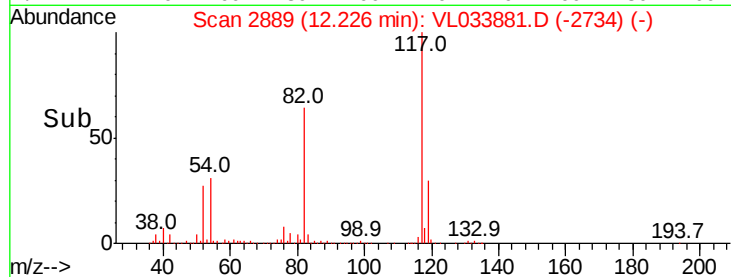
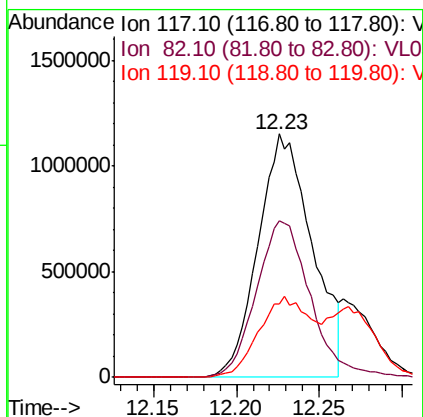
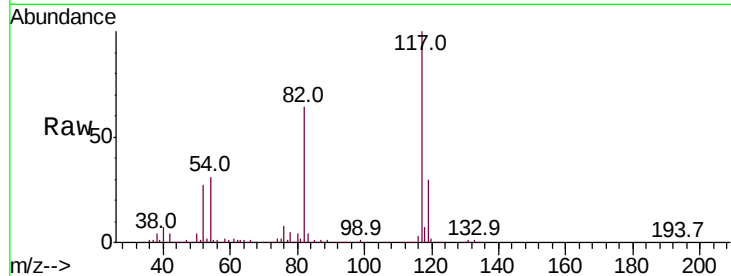
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2889
Delta R.T. -0.00 min
Lab File: VL033881.D
Acq: 7 Jun 2019 7:12

Instrument :
MSVOA_L
ClientSampleId :
ICVVL060719

Tot Ion	Ratio	Lower	Upper
117	100		
82	64.1	50.2	75.2
119	32.6	24.8	37.2

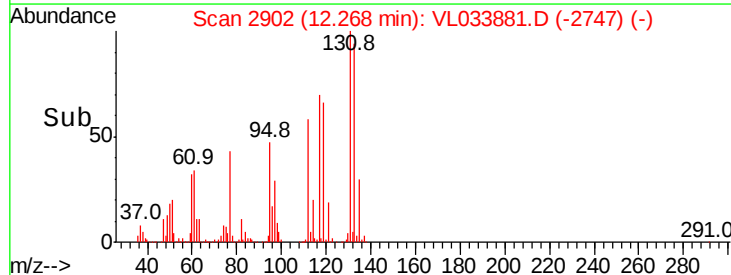
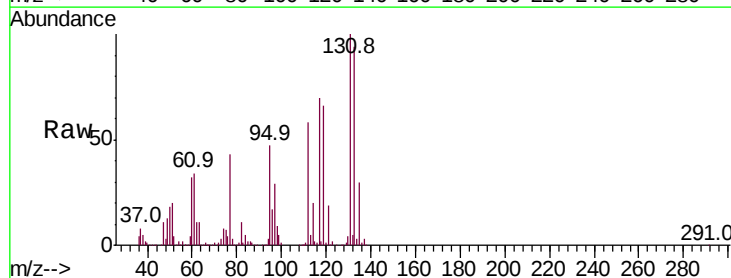
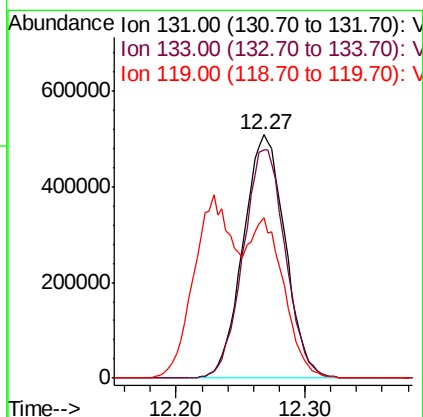
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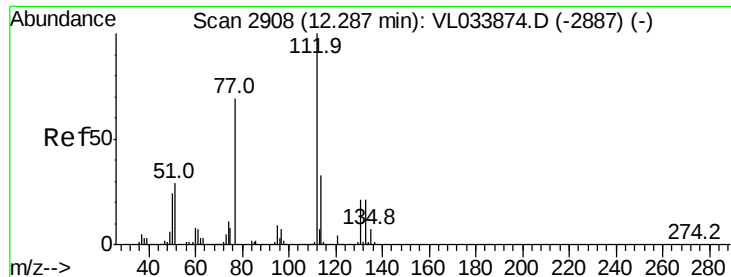
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#56
1,1,1,2-Tetrachloroethane
Concen: 10.086 ppbv
RT: 12.27 min Scan# 2902
Delta R.T. -0.00 min
Lab File: VL033881.D
Acq: 7 Jun 2019 7:12

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.8	76.5	114.7
119	55.9	42.6	64.0





#57

Chlorobenzene

Concen: 10.155 ppbv

RT: 12.29 min Scan# 2909

Delta R.T. 0.00 min

Lab File: VL033881.D

Acq: 7 Jun 2019 7:12

Instrument :

MSVOA_L

ClientSampleId :

ICVVL060719

Tot Ion: 112 Resp: 1987351

Ion Ratio Lower Upper

112 100

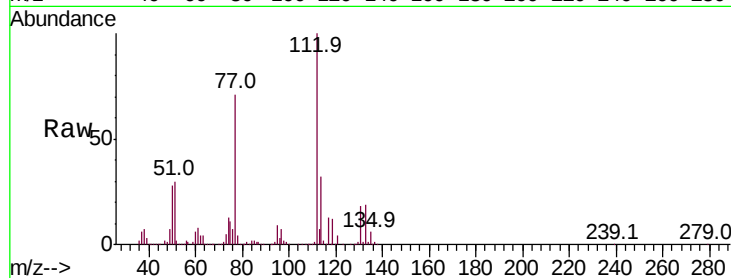
77 70.6 55.8 83.6

114 31.7 29.8 36.4

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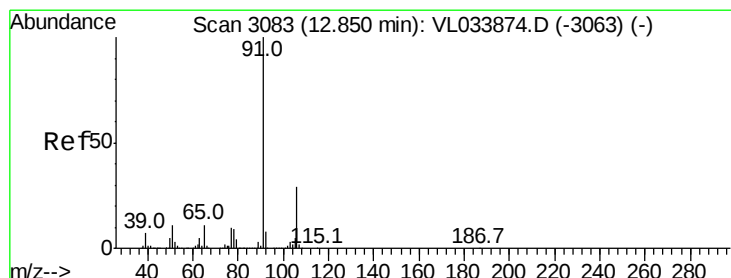
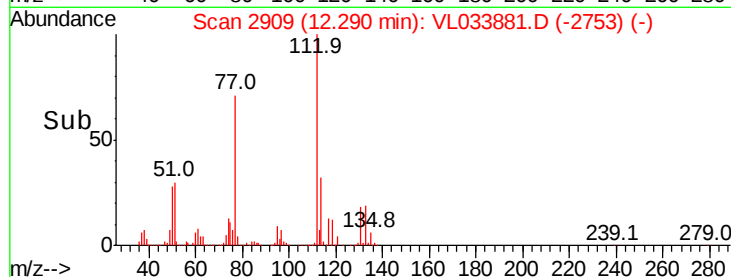
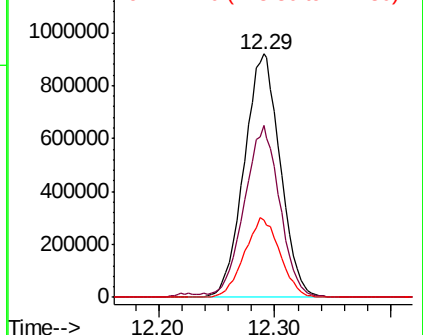
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 12.090 ppbv

RT: 12.85 min Scan# 3084

Delta R.T. 0.00 min

Lab File: VL033881.D

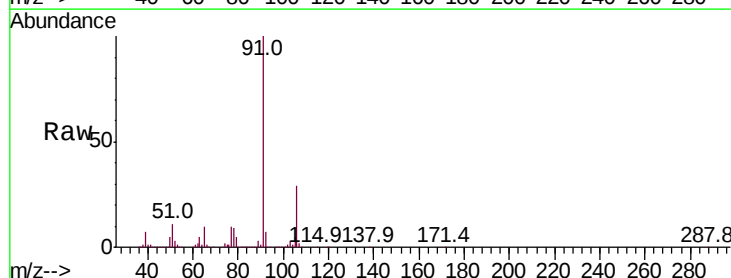
Acq: 7 Jun 2019 7:12

Tgt Ion: 91 Resp: 3561594

Ion Ratio Lower Upper

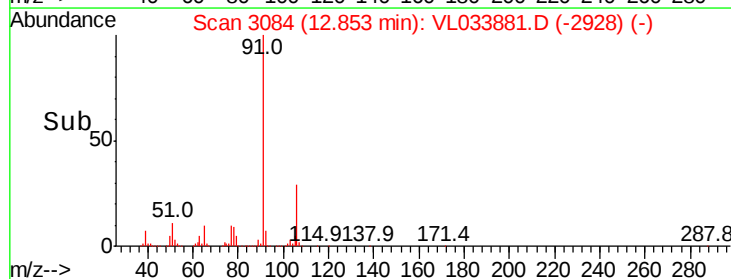
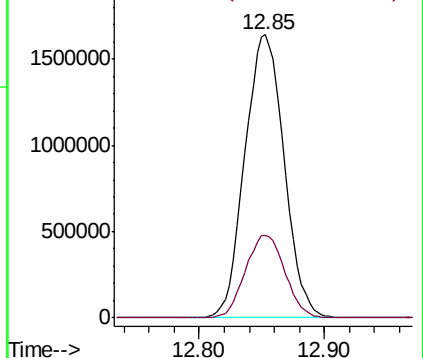
91 100

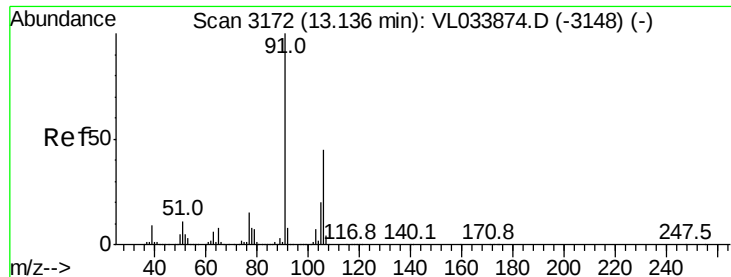
106 29.2 23.0 34.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 22.049 ppbv m

RT: 13.14 min Scan# 3173

Delta R.T. 0.00 min

Lab File: VL033881.D

Acq: 7 Jun 2019 7:12

Instrument :

MSVOA_L

ClientSampleId :

ICVVL060719

Tot Ion: 91 Resp: 5906978

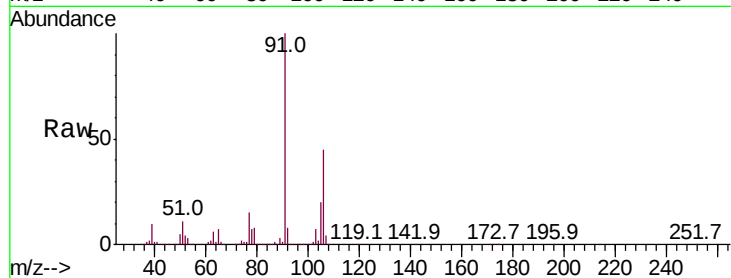
Ion Ratio Lower Upper

91 100

106 45.0 35.8 53.8

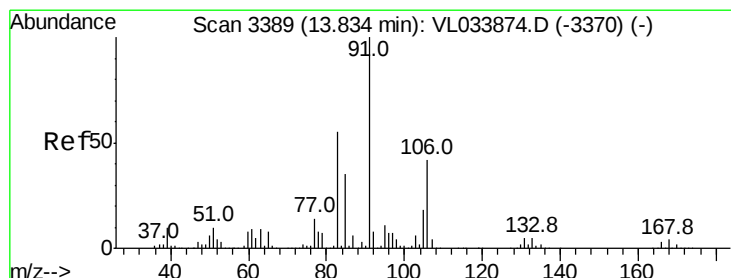
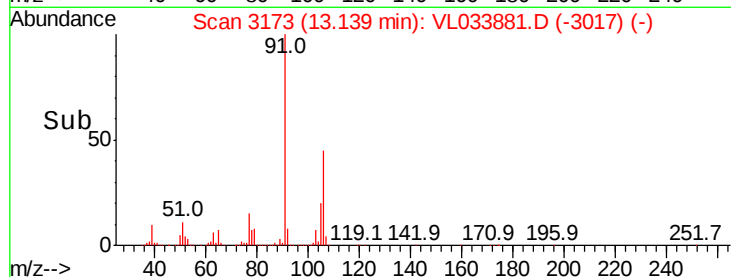
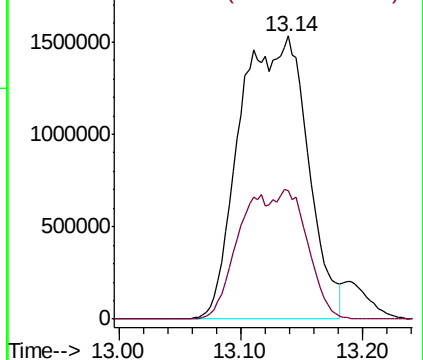
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 10.770 ppbv

RT: 13.84 min Scan# 3391

Delta R.T. 0.01 min

Lab File: VL033881.D

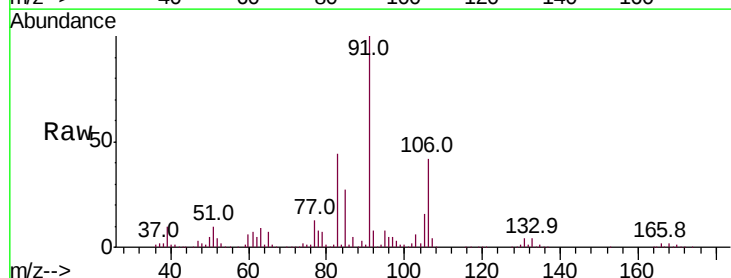
Acq: 7 Jun 2019 7:12

Tgt Ion: 91 Resp: 2979035

Ion Ratio Lower Upper

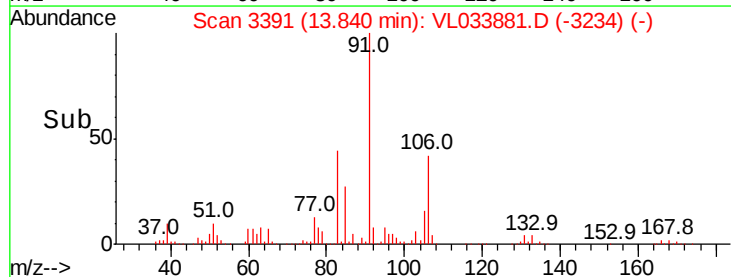
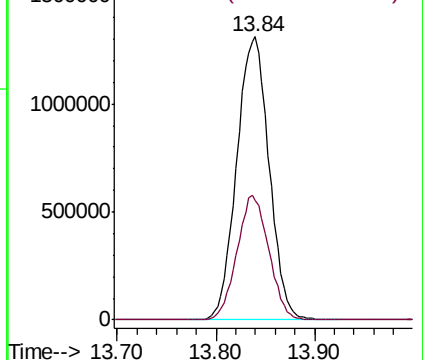
91 100

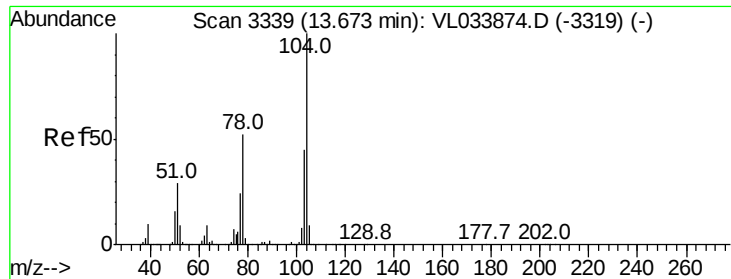
106 43.3 21.7 65.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





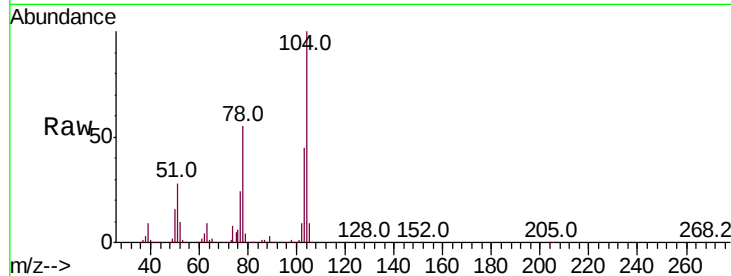
#61
Stvrene
Concen: 12.251 ppbv
RT: 13.67 min Scan# 3339
Delta R.T. -0.00 min
Lab File: VL033881.D
Acq: 7 Jun 2019 7:12

Instrument :
MSVOA_L
ClientSampleId :
ICVVL060719

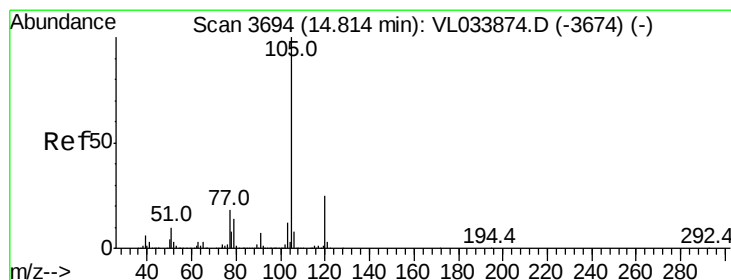
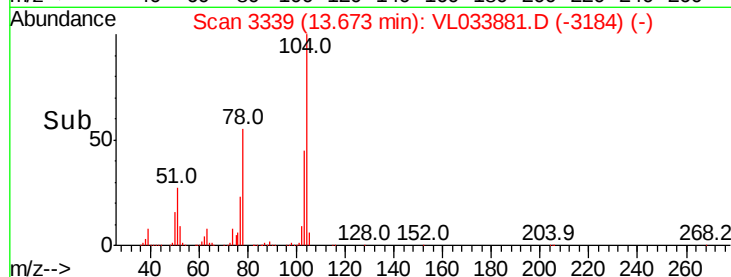
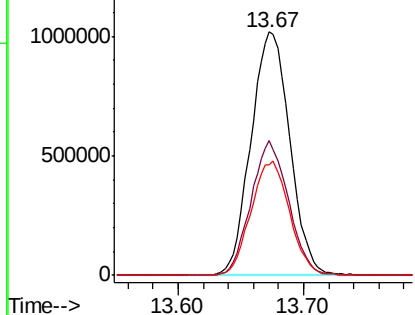
Tot Ion	Ratio	Lower	Upper
104	100		
78	53.6	43.4	65.0
103	46.7	37.6	56.4

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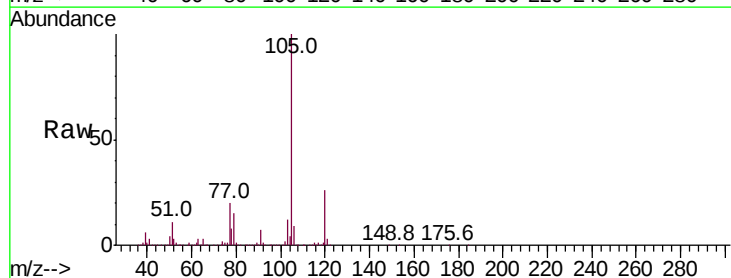


Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VL0
Ion 103.10 (102.80 to 103.80): V

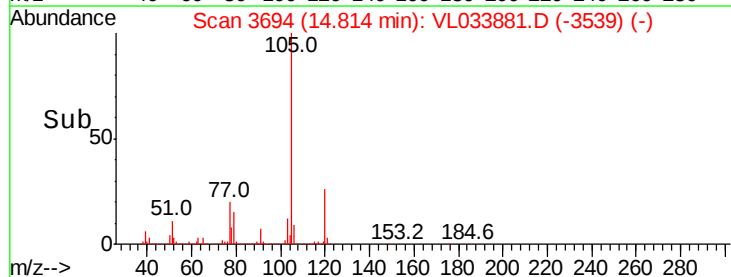
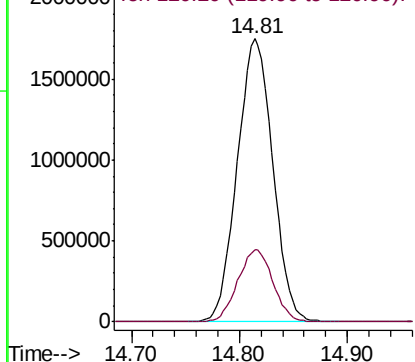


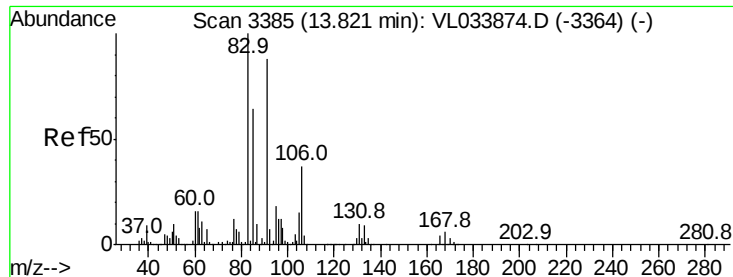
#62
Isopropylbenzene
Concen: 10.762 ppbv
RT: 14.81 min Scan# 3694
Delta R.T. -0.00 min
Lab File: VL033881.D
Acq: 7 Jun 2019 7:12

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.3	20.3	30.5



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: 10.059 ppbv

RT: 13.83 min Scan# 3387

Delta R.T. 0.01 min

Lab File: VL033881.D

Acq: 7 Jun 2019 7:12

Instrument :

MSVOA_L

ClientSampleId :

ICVVL060719

Tot Ion: 83 Resp: 2094364

Ion Ratio Lower Upper

83 100

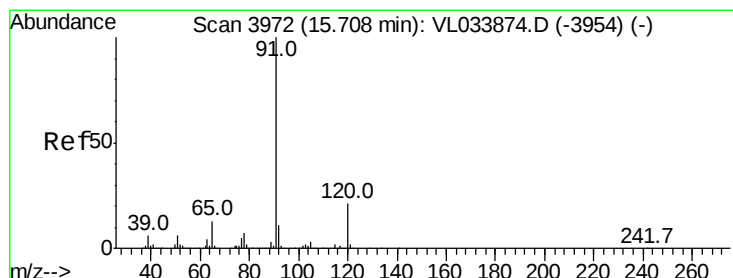
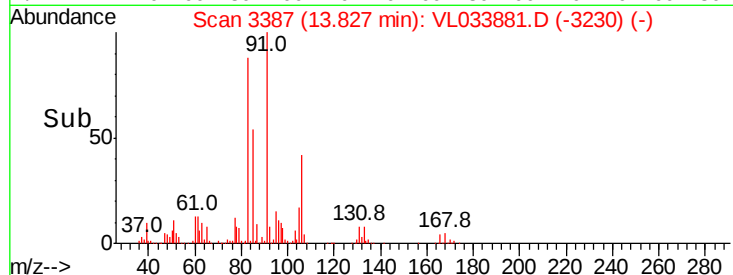
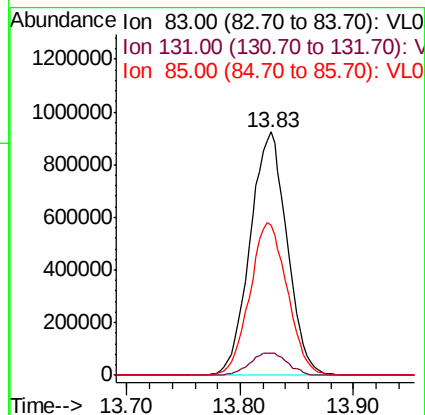
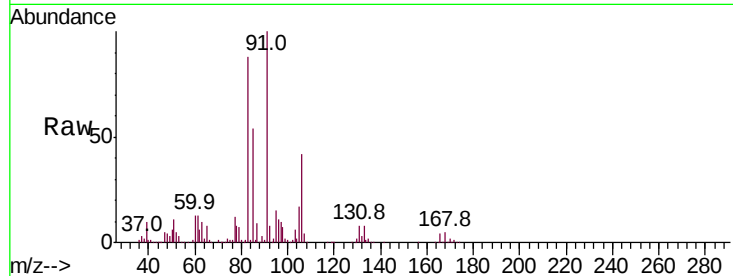
131 9.5 4.8 14.4

85 63.6 32.1 96.3

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#64

n-propylbenzene

Concen: 11.002 ppbv

RT: 15.71 min Scan# 3972

Delta R.T. -0.00 min

Lab File: VL033881.D

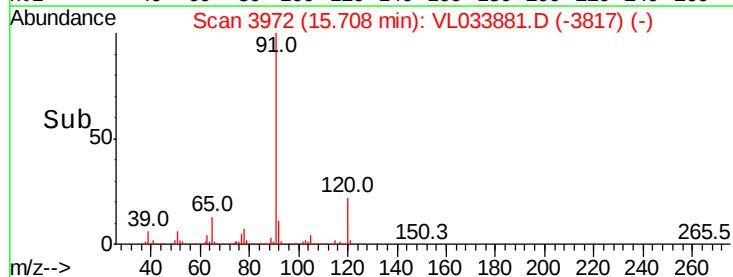
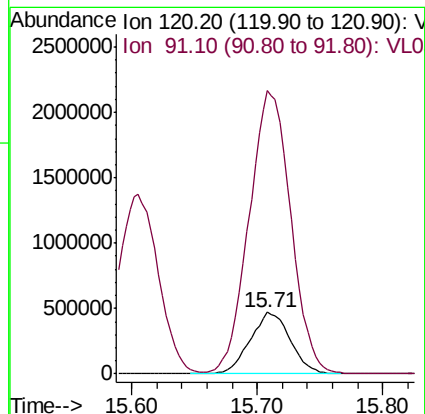
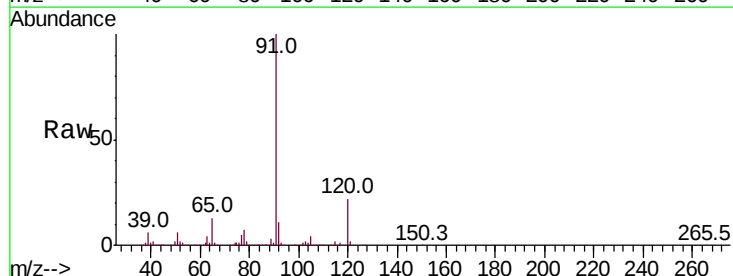
Acq: 7 Jun 2019 7:12

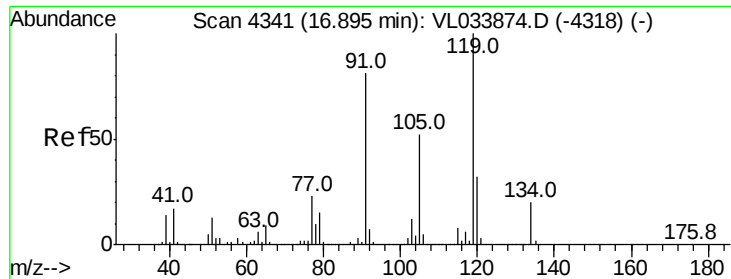
Tgt Ion:120 Resp: 1050318

Ion Ratio Lower Upper

120 100

91 477.2 387.0 580.6





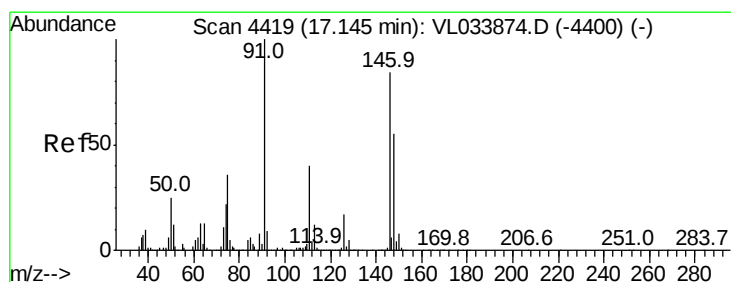
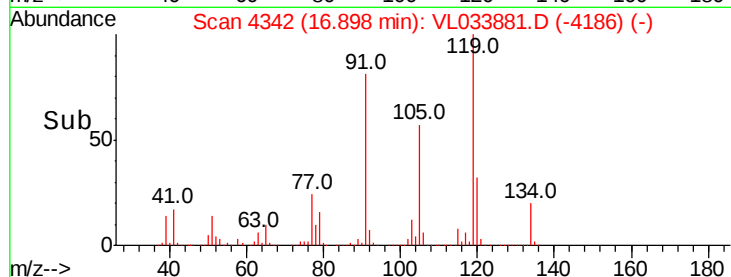
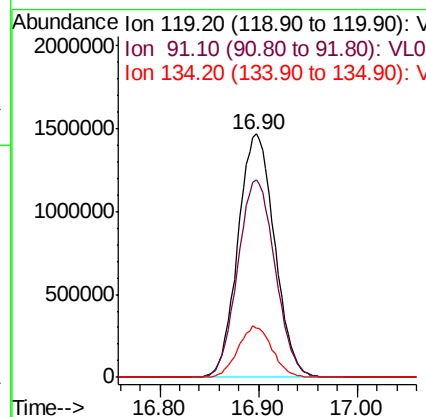
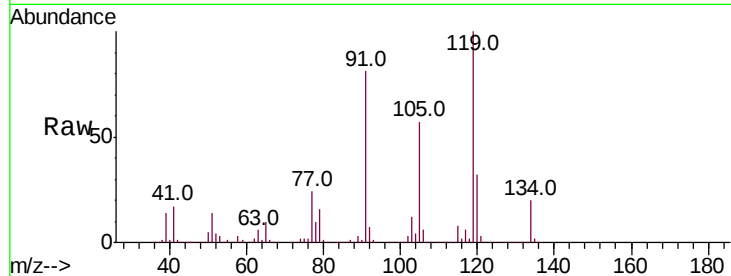
#65
 tert-Butylbenzene
 Concen: 10.945 ppbv
 RT: 16.90 min Scan# 4342
 Delta R.T. 0.00 min
 Lab File: VL033881.D
 Acq: 7 Jun 2019 7:12

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL060719

Tot Ion:119 Resp: 3775450
 Ion Ratio Lower Upper
 119 100
 91 83.1 66.6 100.0
 134 19.5 15.5 23.3

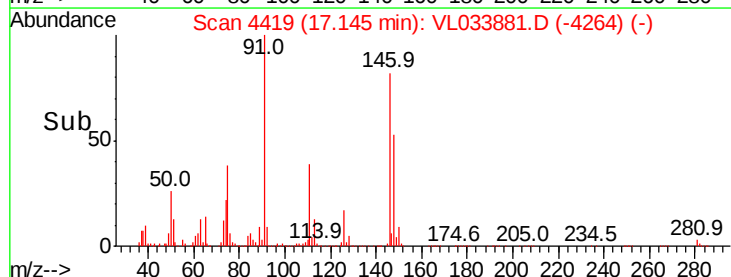
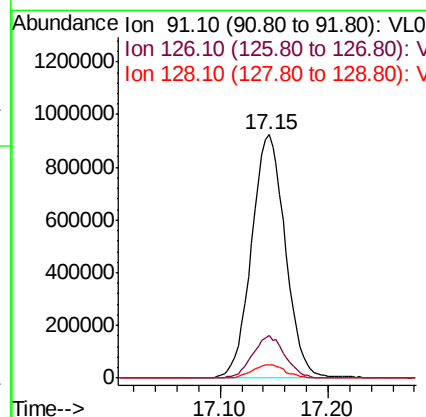
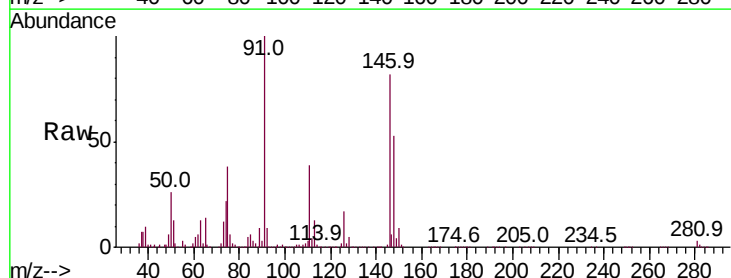
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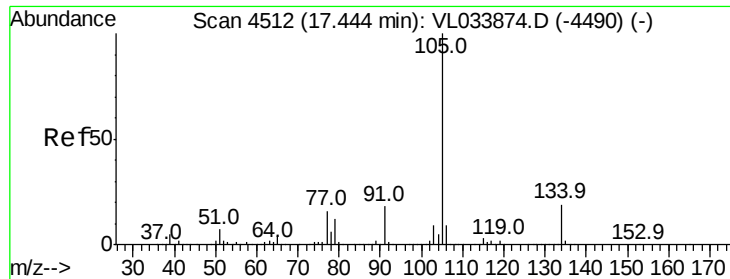
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#66
 Benzyl Chloride
 Concen: 11.443 ppbv
 RT: 17.15 min Scan# 4419
 Delta R.T. -0.00 min
 Lab File: VL033881.D
 Acq: 7 Jun 2019 7:12

Tgt Ion: 91 Resp: 2000331
 Ion Ratio Lower Upper
 91 100
 126 16.8 13.8 20.6
 128 5.5 4.4 6.6





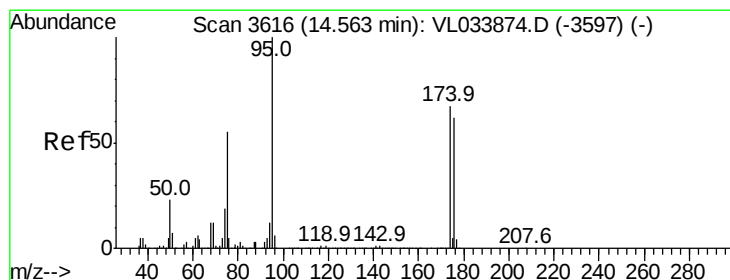
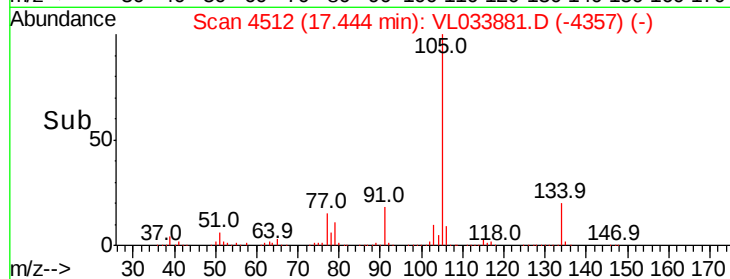
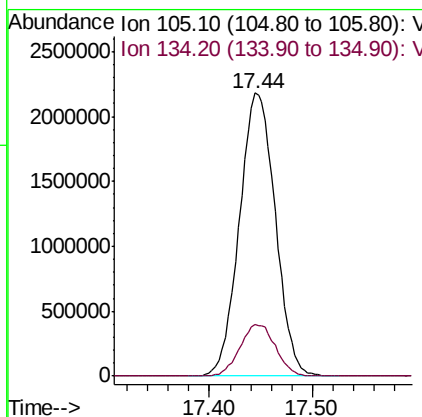
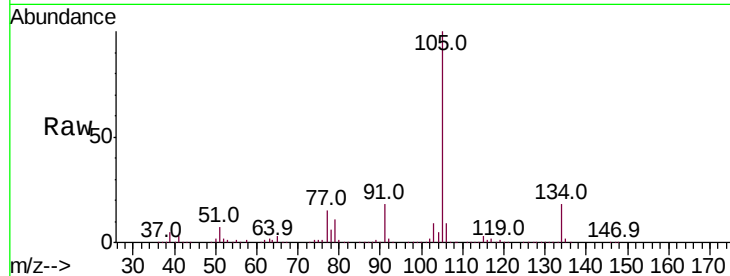
#67
 sec-Butylbenzene
 Concen: 10.890 ppbv
 RT: 17.44 min Scan# 4512
 Delta R.T. -0.00 min
 Lab File: VL033881.D
 Acq: 7 Jun 2019 7:12

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL060719

Tot Ion: 105 Resp: 5270134
 Ion Ratio Lower Upper
 105 100
 134 18.1 14.6 22.0

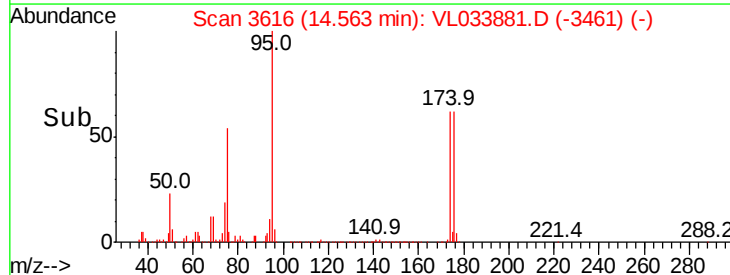
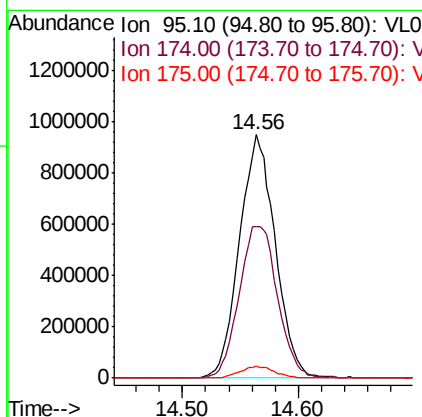
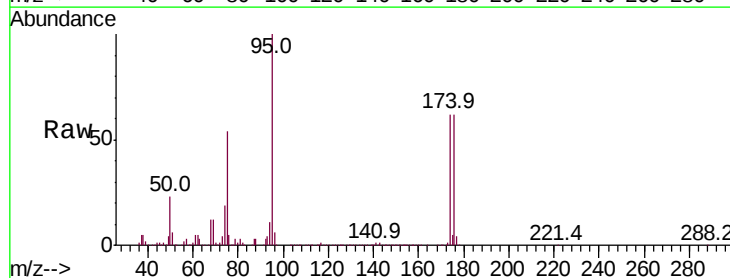
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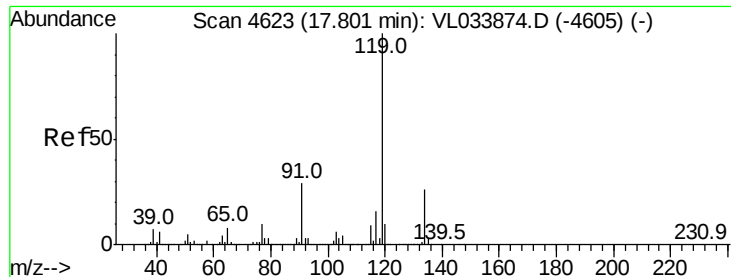
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#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.463 ppbv
 RT: 14.56 min Scan# 3616
 Delta R.T. -0.00 min
 Lab File: VL033881.D
 Acq: 7 Jun 2019 7:12

Tgt Ion: 95 Resp: 2030923
 Ion Ratio Lower Upper
 95 100
 174 67.1 54.0 81.0
 175 4.9 3.8 5.8





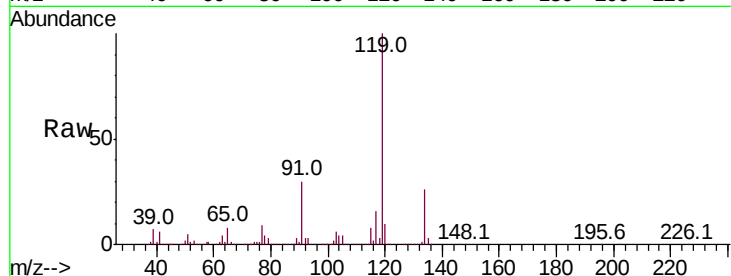
#69
 p-Isopropyltoluene
 Concen: 10.847 ppbv
 RT: 17.80 min Scan# 4623
 Delta R.T. -0.00 min
 Lab File: VL033881.D
 Acq: 7 Jun 2019 7:12

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL060719

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.4	20.3	30.5
91	29.6	23.8	35.6

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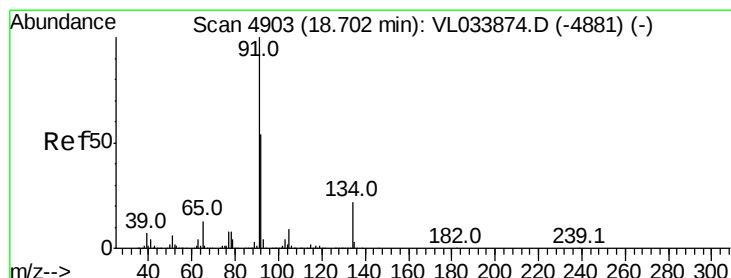
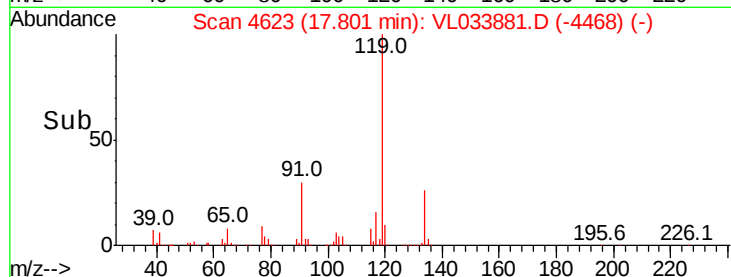
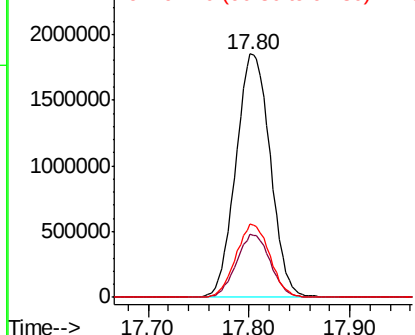


Abundance

Ion 119.10 (118.80 to 119.80): V

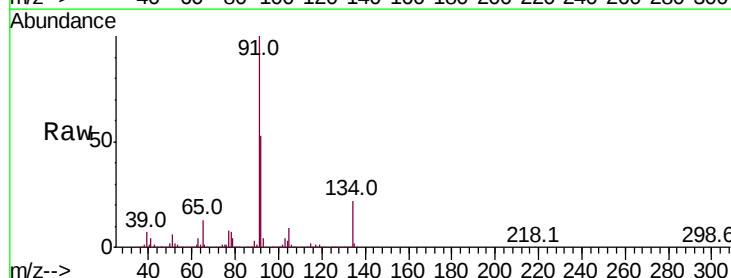
Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): V



#70
 n-Butylbenzene
 Concen: 10.276 ppbv
 RT: 18.70 min Scan# 4903
 Delta R.T. -0.00 min
 Lab File: VL033881.D
 Acq: 7 Jun 2019 7:12

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.1	42.5	63.7
134	22.2	17.8	26.6

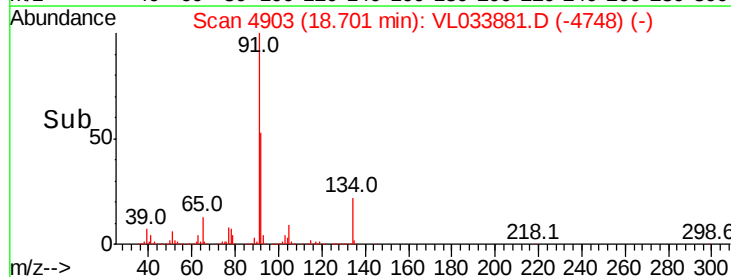
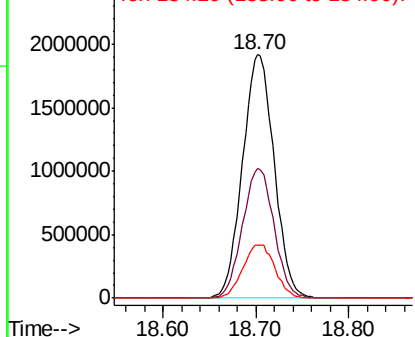


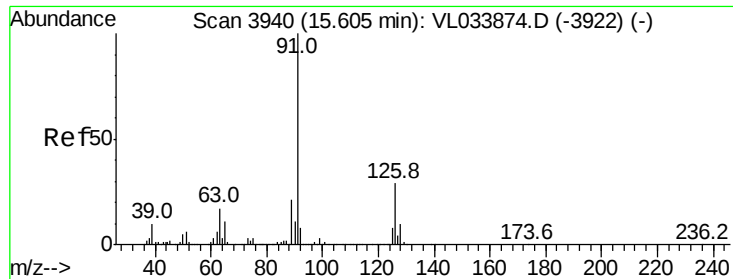
Abundance

Ion 91.10 (90.80 to 91.80): V

Ion 92.10 (91.80 to 92.80): V

Ion 134.20 (133.90 to 134.90): V





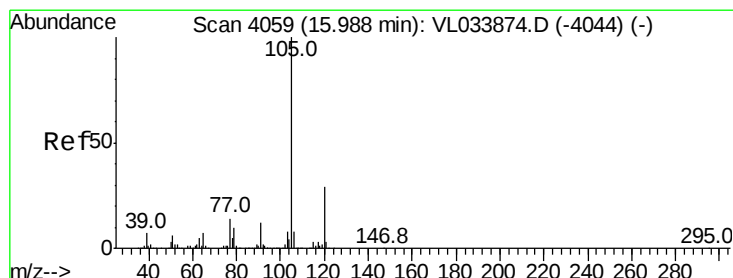
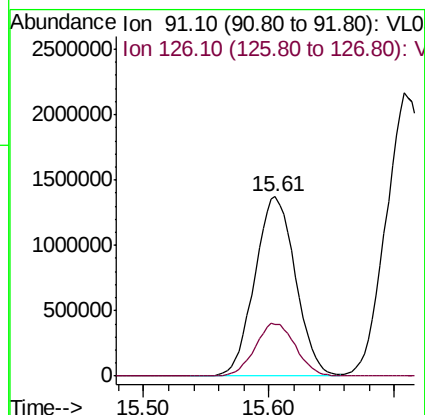
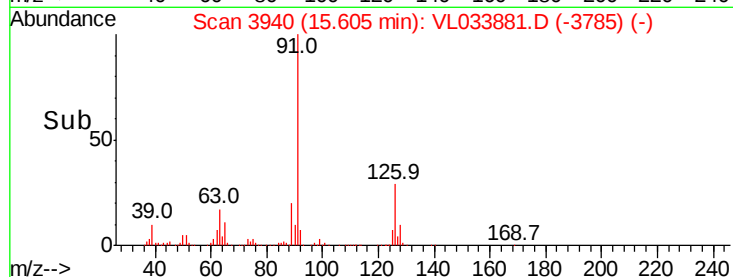
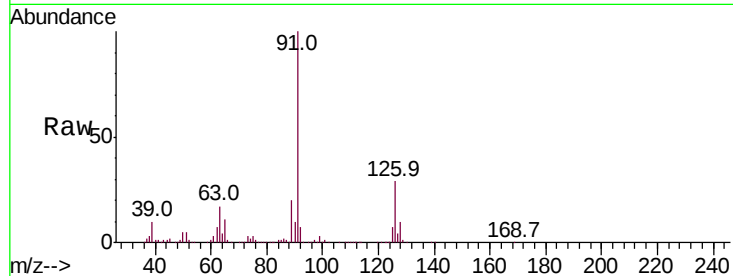
#71
 2-Chlorotoluene
 Concen: 11.277 ppbv
 RT: 15.61 min Scan# 3940
 Delta R.T. -0.00 min
 Lab File: VL033881.D
 Acq: 7 Jun 2019 7:12

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL060719

Tot Ion: 91 Resp: 3097276
 Ion Ratio Lower Upper
 91 100
 126 29.3 12.0 48.2

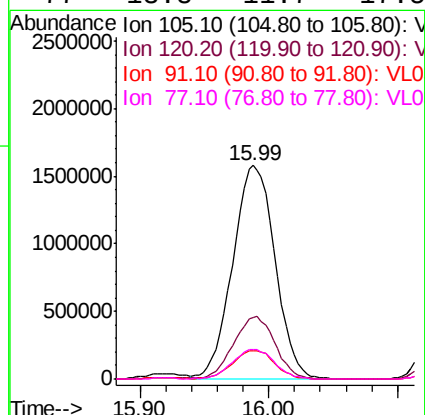
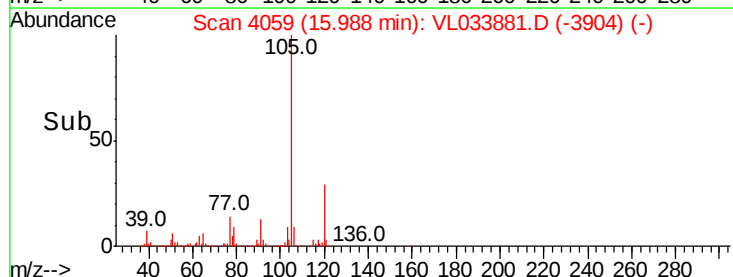
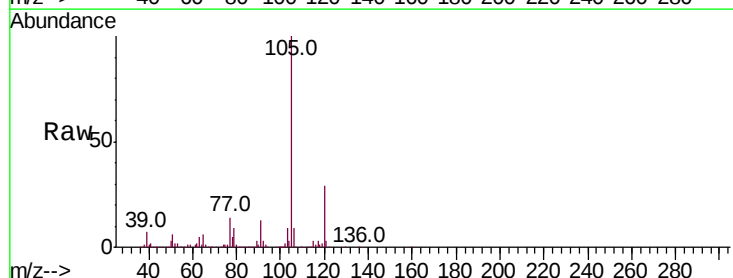
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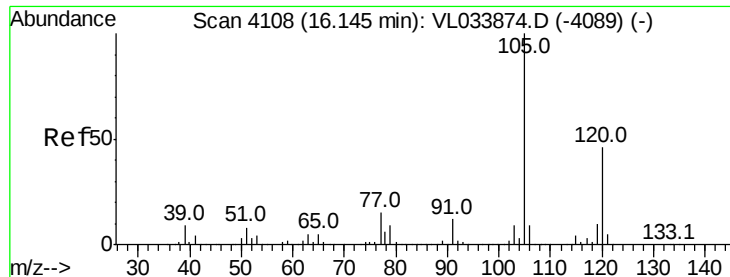
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#72
 4-Ethyltoluene
 Concen: 11.434 ppbv
 RT: 15.99 min Scan# 4059
 Delta R.T. -0.00 min
 Lab File: VL033881.D
 Acq: 7 Jun 2019 7:12

Tgt Ion: 105 Resp: 3598940
 Ion Ratio Lower Upper
 105 100
 120 28.9 23.5 35.3
 91 13.3 10.4 15.6
 77 13.8 11.7 17.5





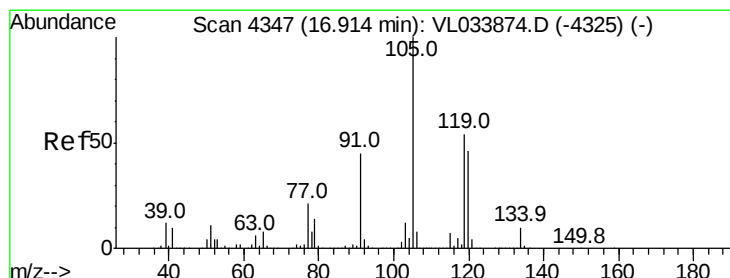
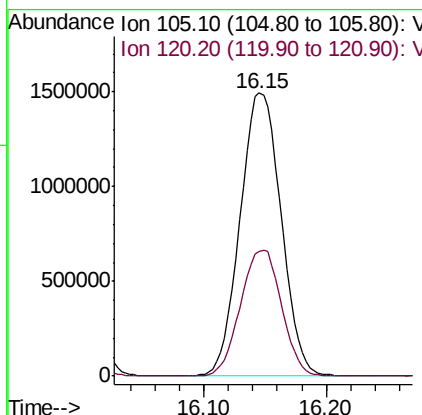
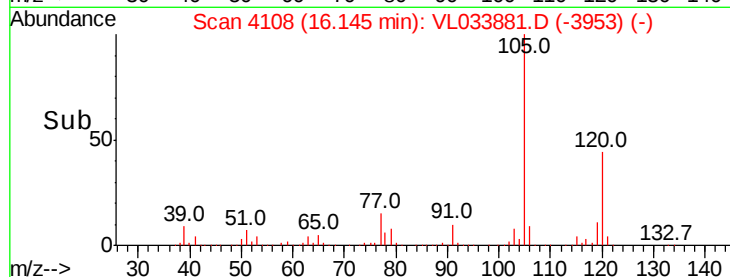
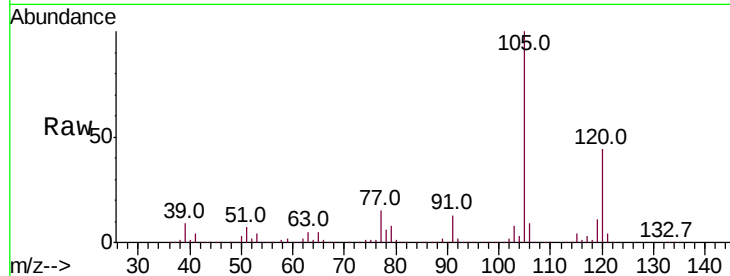
#73
 1,3,5-Trimethylbenzene
 Concen: 11.157 ppbv
 RT: 16.15 min Scan# 4108
 Delta R.T. -0.00 min
 Lab File: VL033881.D
 Acq: 7 Jun 2019 7:12

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL060719

Tot Ion:105 Resp: 3459372
 Ion Ratio Lower Upper
 105 100
 120 44.1 37.1 55.7

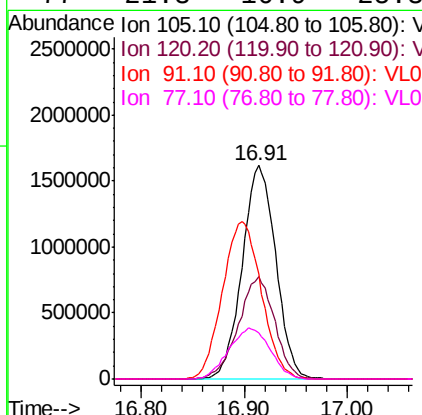
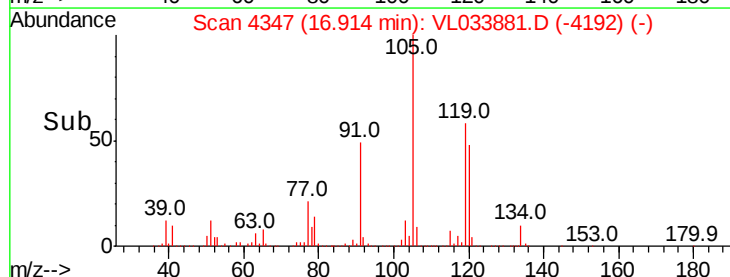
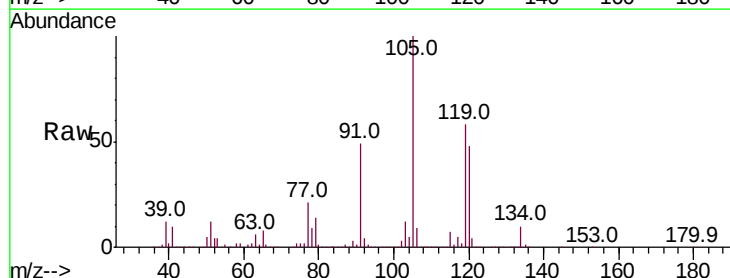
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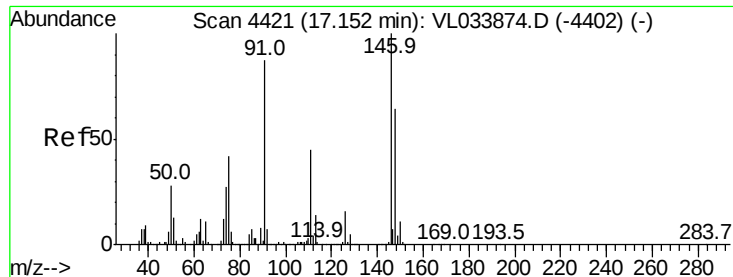
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#74
 1,2,4-Trimethylbenzene
 Concen: 10.248 ppbv
 RT: 16.91 min Scan# 4347
 Delta R.T. -0.00 min
 Lab File: VL033881.D
 Acq: 7 Jun 2019 7:12

Tgt Ion:105 Resp: 3662328
 Ion Ratio Lower Upper
 105 100
 120 48.0 36.7 55.1
 91 49.1 35.8 53.8
 77 21.3 16.9 25.3





#75

1,3-Dichlorobenzene

Concen: 9.419 ppbv

RT: 17.15 min Scan# 4422

Delta R.T. 0.00 min

Lab File: VL033881.D

Acq: 7 Jun 2019 7:12

Instrument :

MSVOA_L

ClientSampleId :

ICVVL060719

Tot Ion:146 Resp: 2107836

Ion Ratio Lower Upper

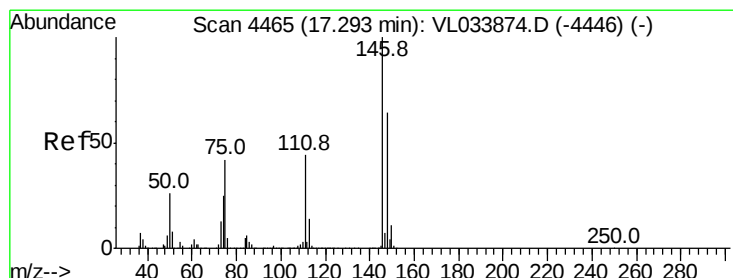
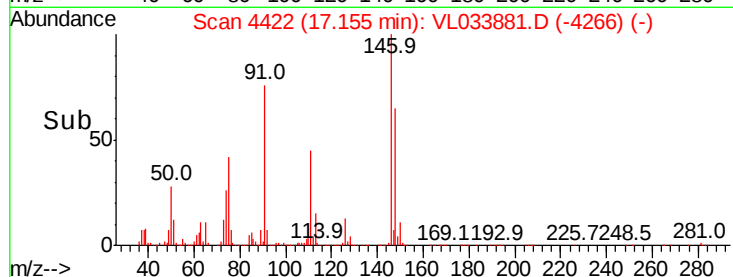
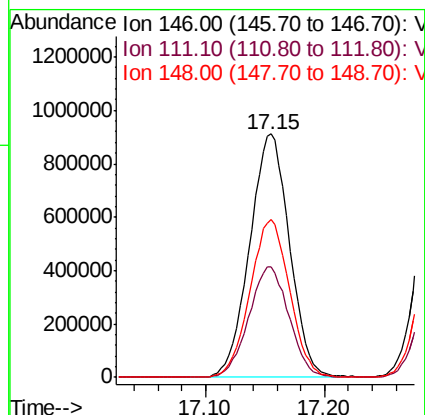
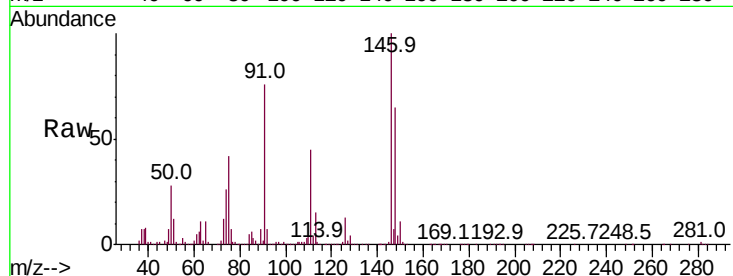
146 100

111 45.9 22.8 68.3

148 64.4 32.2 96.6

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#76

1,4-Dichlorobenzene

Concen: 10.167 ppbv

RT: 17.29 min Scan# 4465

Delta R.T. -0.00 min

Lab File: VL033881.D

Acq: 7 Jun 2019 7:12

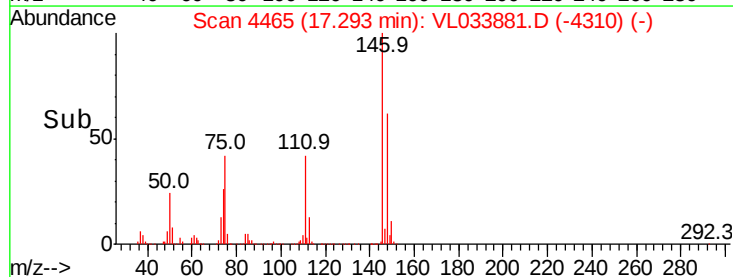
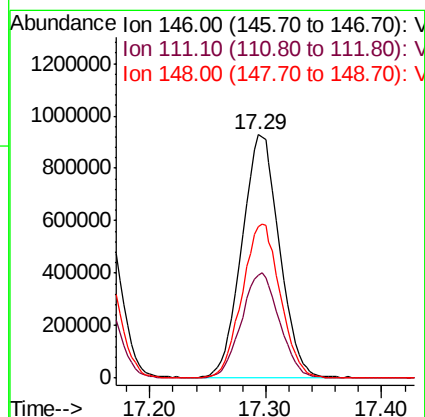
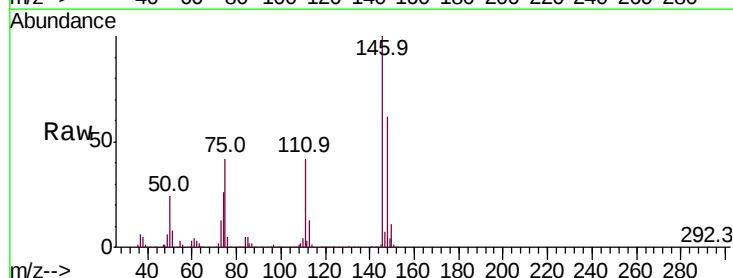
Tgt Ion:146 Resp: 2089190

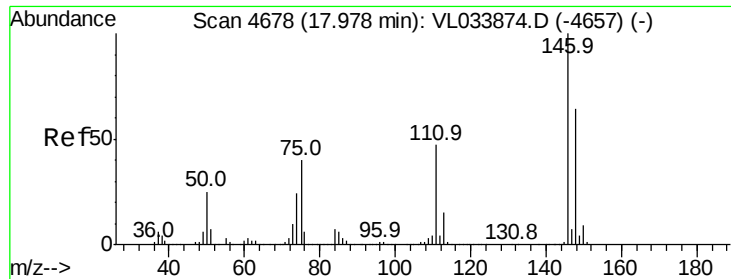
Ion Ratio Lower Upper

146 100

111 44.1 22.1 66.5

148 64.5 32.4 97.0





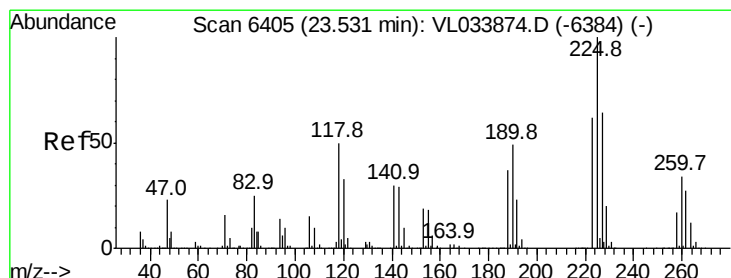
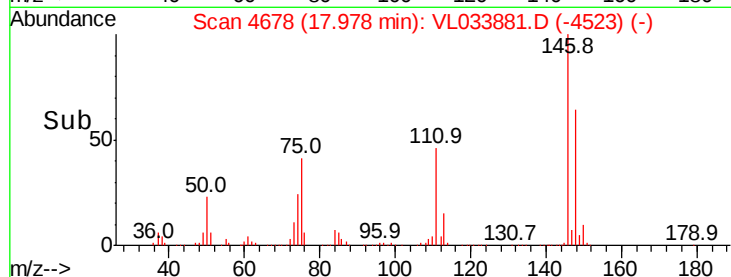
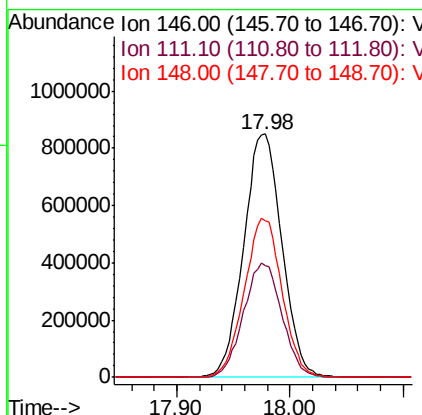
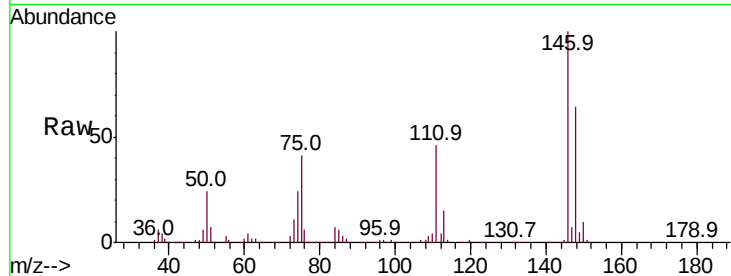
#77
 1,2-Dichlorobenzene
 Concen: 9.672 ppbv
 RT: 17.98 min Scan# 4678
 Delta R.T. -0.00 min
 Lab File: VL033881.D
 Acq: 7 Jun 2019 7:12

Instrument :
 MSVOA_L
 ClientSampled :
 ICVVL060719

Tot Ion:146 Resp: 1997528
 Ion Ratio Lower Upper
 146 100
 111 47.3 23.4 70.0
 148 64.6 31.8 95.4

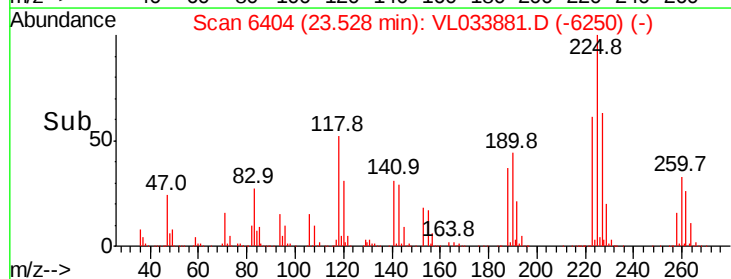
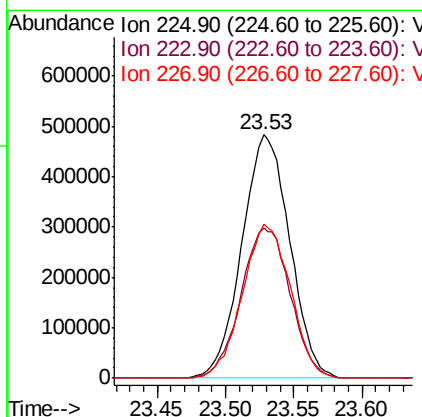
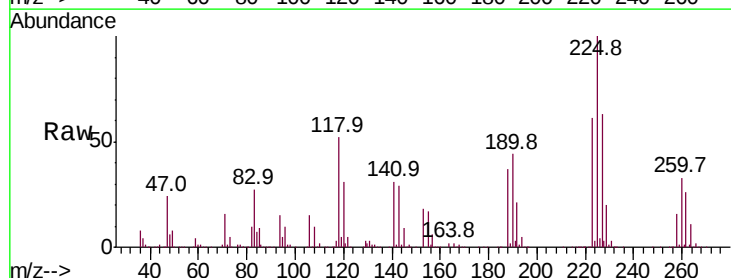
Manual Integrations
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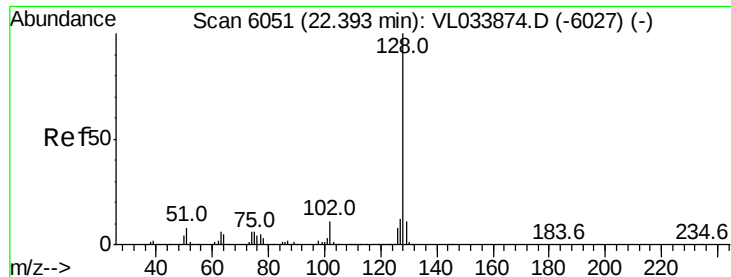
MMDadoda
 6/11/2019 9:18:46 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 7.289 ppbv
 RT: 23.53 min Scan# 6404
 Delta R.T. -0.00 min
 Lab File: VL033881.D
 Acq: 7 Jun 2019 7:12

Tgt Ion:225 Resp: 1175718
 Ion Ratio Lower Upper
 225 100
 223 63.4 50.8 76.2
 227 63.7 51.8 77.6





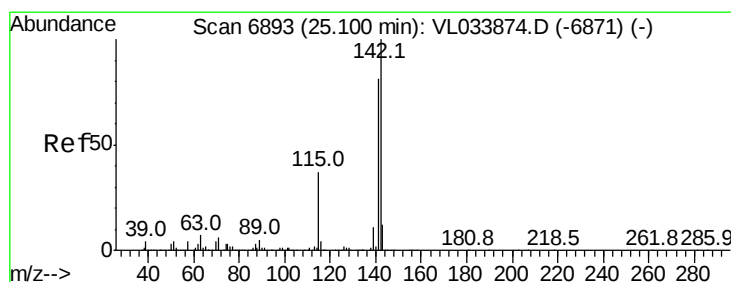
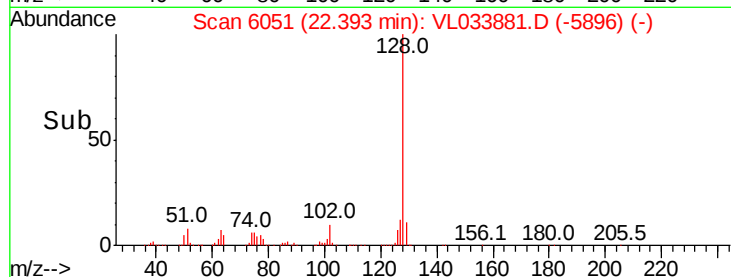
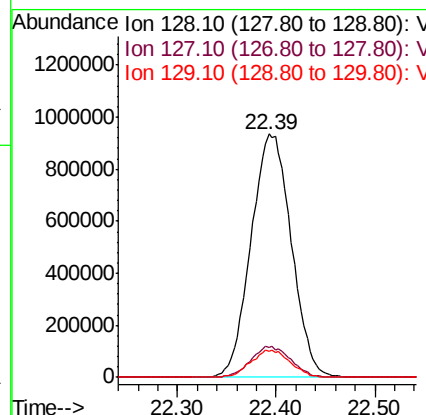
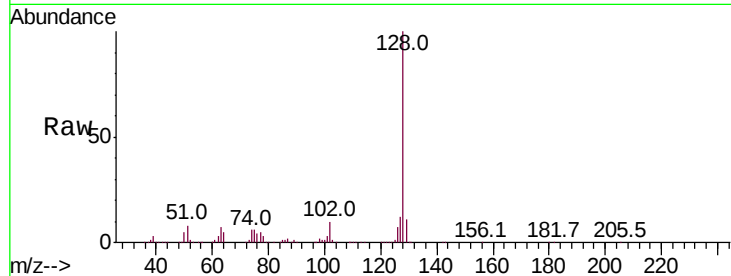
#79
Naphthalene
Concen: 9.235 ppbv
RT: 22.39 min Scan# 6051
Delta R.T. -0.00 min
Lab File: VL033881.D
Acq: 7 Jun 2019 7:12

Instrument :
MSVOA_L
ClientSampleId :
ICVVL060719

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.3	9.7	14.5
129	10.7	8.6	12.8

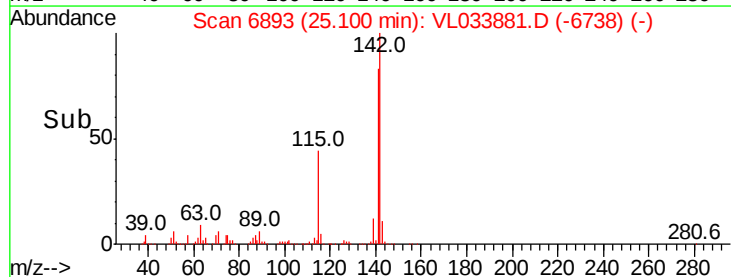
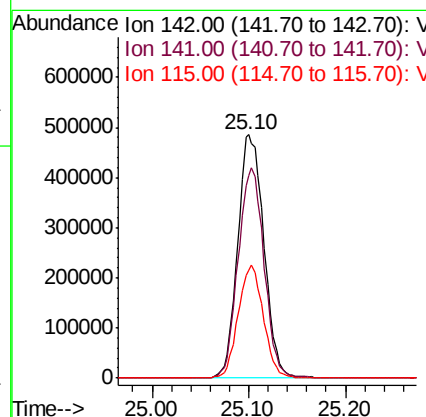
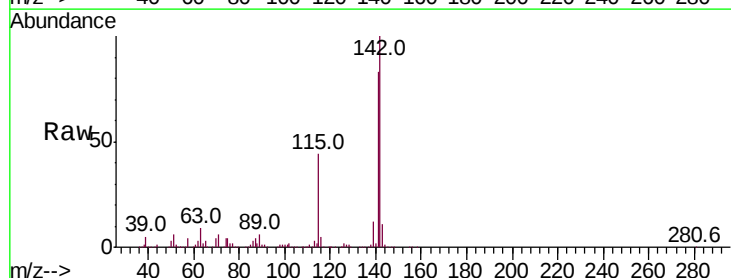
Manual Integrations
APPROVED

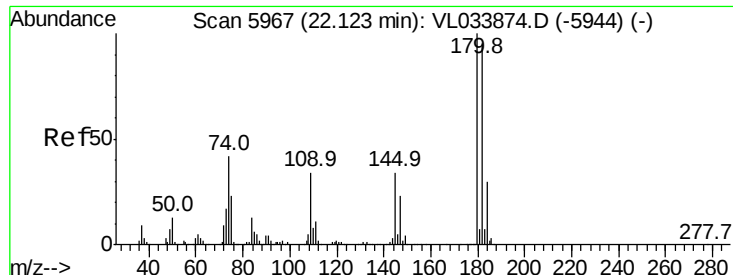
MMDadoda
6/11/2019 9:18:46 AM



#80
Naphthalene, 2-methyl-
Concen: 7.993 ppbv
RT: 25.10 min Scan# 6893
Delta R.T. -0.00 min
Lab File: VL033881.D
Acq: 7 Jun 2019 7:12

Tgt Ion	Ratio	Lower	Upper
142	100		
141	86.0	65.7	98.5
115	44.7	28.9	43.3#





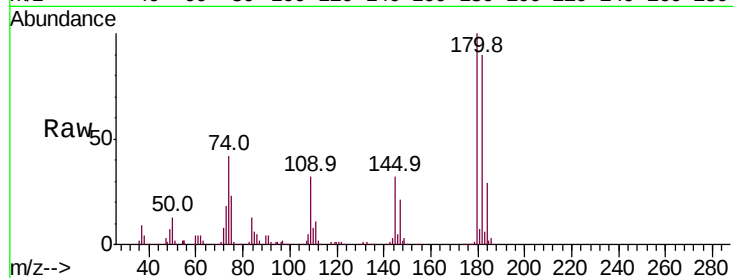
#81
 1,2,4-Trichlorobenzene
 Concen: 8.704 ppbv
 RT: 22.12 min Scan# 5965
 Delta R.T. -0.01 min
 Lab File: VL033881.D
 Acq: 7 Jun 2019 7:12

Instrument :
 MSVOA_L
 ClientSampleId :
 ICVVL060719

Tot Ion:	180	Resp:	1569661
Ion Ratio	Lower	Upper	
180	100		
182	95.6	76.9	115.3
184	30.4	24.5	36.7

Manual Integrations
 APPROVED

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 6/11/2019 9:18:46 AM



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

