

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL071119\
 Data File : VL034019.D
 Acq On : 11 Jul 2019 15:21
 Operator : SY/AP
 Sample : VL0711ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0711ABS01

Manual Integrations
 APPROVED

MMDadoda
 7/12/2019 10:46:54 PM

Quant Time: Jul 12 07:25:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 0
 QLast Update : Tue Jul 02 19:31:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	1068193	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.25	114	2889073	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.19	117	2981749	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.53	95	2263962	8.90	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	89.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	2214154	10.044	ppbv	96
3) Chlorodifluoromethane	2.99	51	1293910	9.809	ppbv	99
4) Chloromethane	3.15	50	751821	9.912	ppbv	95
5) Vinyl Chloride	3.27	62	822169	9.640	ppbv	98
6) Bromomethane	3.49	94	538300	10.703	ppbv	94
7) Chloroethane	3.58	64	315928	10.364	ppbv	93
8) Dichlorotetrafluoroethane	3.20	85	2117165	9.851	ppbv	100
9) Propene	3.01	41	508371	10.477	ppbv	97
10) Heptane	8.21	43	1444187	11.886	ppbv	100
11) Trichlorofluoromethane	3.98	101	2258511	9.112	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.53	101	1629883	9.290	ppbv	99
13) Ethanol	3.63	45	135603	8.995	ppbv	96
14) Bromoethene	3.76	108	694806	10.605	ppbv	99
15) Acetone	3.88	43	1518479	8.455	ppbv	100
16) 1,3-Butadiene	3.34	39	683091	10.771	ppbv	100
17) tert-Butyl alcohol	4.33	59	1480035	10.336	ppbv	99
18) 1,1-Dichloroethene	4.32	96	761722	9.748	ppbv	93
19) Isopropyl Alcohol	4.00	45	1151871	9.555	ppbv	99
20) Methylene Chloride	4.38	84	654665	8.358	ppbv	99
21) Allyl Chloride	4.45	41	1109636	9.909	ppbv	100
22) trans-1,2-Dichloroethene	4.93	96	756180	10.155	ppbv	97
23) Vinyl Acetate	5.12	43	1966497	10.970	ppbv	99
24) 1,1-Dichloroethane	5.06	63	1605677	10.107	ppbv	100
25) Ethyl Acetate	5.73	43	2585001	10.524	ppbv	100
26) Hexane	5.74	57	1187555	10.565	ppbv	99
27) Carbon Disulfide	4.59	76	1956158	10.236	ppbv	99
28) Methyl tert-Butyl Ether	5.08	73	2068022	10.864	ppbv	99
29) Chloroform	5.81	83	2060206	9.753	ppbv	97
30) Cyclohexane	7.21	84	1054942	12.152	ppbv	96
31) cis-1,2-Dichloroethene	5.61	61	1218598	11.221	ppbv	96
32) 1,1,1-Trichloroethane	6.59	97	2108657	9.849	ppbv	99
34) 2-Butanone	5.30	43	1575669	10.305	ppbv	100
35) Carbon Tetrachloride	7.10	117	2269923	9.925	ppbv	99
36) Benzene	6.97	78	2454107	10.856	ppbv	98
37) 1,2-Dichloroethane	6.38	62	1600457	9.610	ppbv	99
38) Trichloroethene	7.92	130	1104386	10.980	ppbv	96
39) 1,2-Dichloropropane	7.70	63	904977	10.766	ppbv	98
40) 1,4-Dioxane	7.92	88	431661	11.122	ppbv #	93
41) Tetrahydrofuran	6.11	42	833448	11.115	ppbv	98
42) Bromodichloromethane	7.88	83	2307493	10.326	ppbv	97
43) Methyl Methacrylate	8.10	69	1022337	11.919	ppbv	99

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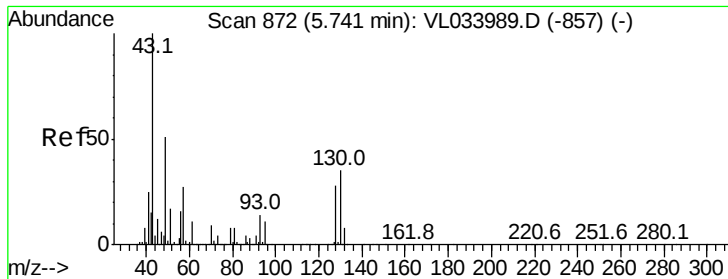
Manual Integrations
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 0
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.95	57	4278347	10.964	ppbv	99
45) t-1,3-Dichloropropene	9.37	75	1386986	12.366	ppbv	96
46) cis-1,3-Dichloropropene	8.80	75	1568242	12.073	ppbv	99
47) 1,1,2-Trichloroethane	9.58	97	1094765	10.358	ppbv	94
48) Dibromochloromethane	10.41	129	1998628	9.910	ppbv	100
49) Bromoform	13.16	173	1764248	10.240	ppbv	100
50) 4-Methyl-2-Pentanone	8.83	43	2456160	10.825	ppbv	99
51) 2-Hexanone	10.23	43	2027534	11.080	ppbv #	100
52) Tetrachloroethene	11.33	164	1044454	10.735	ppbv	96
53) Toluene	9.91	91	3101041	11.984	ppbv	98
54) 1,2-Dibromoethane	10.72	107	1693770	10.859	ppbv	93
56) 1,1,1,2-Tetrachloroethane	12.24	131	1330935	9.987	ppbv	97
57) Chlorobenzene	12.26	112	2382668	10.037	ppbv	99
58) Ethyl Benzene	12.82	91	4058572	11.319	ppbv	99
59) m/p-Xylene	13.10	91	6752054m	20.797	ppbv	
60) o-Xylene	13.81	91	3350730	10.317	ppbv	99
61) Styrene	13.64	104	2494905	11.607	ppbv	99
62) Isopropylbenzene	14.79	105	4482359	8.977	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.79	83	2241041	8.914	ppbv	100
64) n-propylbenzene	15.68	120	1156988	8.936	ppbv	99
65) tert-Butylbenzene	16.87	119	3992160	9.402	ppbv	99
66) Benzyl Chloride	17.11	91	2155402	9.922	ppbv	100
67) sec-Butylbenzene	17.42	105	5642597	9.468	ppbv	99
69) p-Isopropyltoluene	17.77	119	4704116	9.573	ppbv	99
70) n-Butylbenzene	18.67	91	4955632	9.600	ppbv	99
71) 2-Chlorotoluene	15.57	91	3401805	9.310	ppbv	100
72) 4-Ethyltoluene	15.96	105	3976300	9.533	ppbv	98
73) 1,3,5-Trimethylbenzene	16.11	105	3776587	9.731	ppbv	100
74) 1,2,4-Trimethylbenzene	16.88	105	3859394	8.978	ppbv	98
75) 1,3-Dichlorobenzene	17.12	146	2338755	8.565	ppbv	100
76) 1,4-Dichlorobenzene	17.26	146	2299222	8.941	ppbv	100
77) 1,2-Dichlorobenzene	17.95	146	2272618	8.988	ppbv	99
78) Hexachloro-1,3-Butadiene	23.50	225	1967936	9.147	ppbv	99
79) Naphthalene	22.36	128	4255564	11.776	ppbv	97
80) Naphthalene, 2-methyl-	25.08	142	1081567	8.224	ppbv	99
81) 1,2,4-Trichlorobenzene	22.08	180	2442877	10.525	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.73 min Scan# 869

Delta R.T. -0.01 min

Lab File: VL034019.D

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Instrument :

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ClientSampleId :

VL0711ABS01

Tot Ion: 49 Resp: 1068193

Ion Ratio Lower Upper

49 100

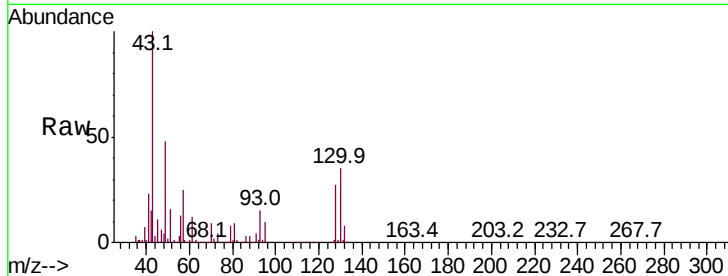
128 56.2 27.9 83.6

130 71.7 35.8 107.4

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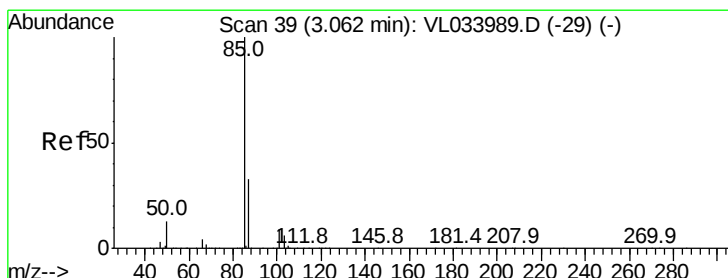
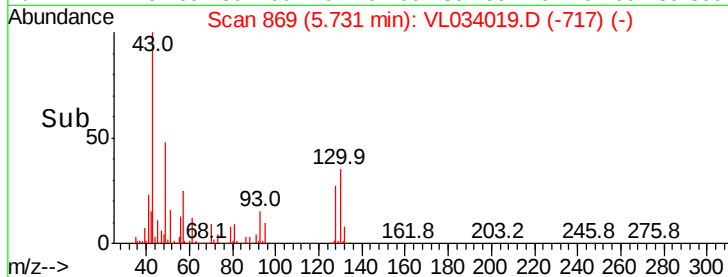
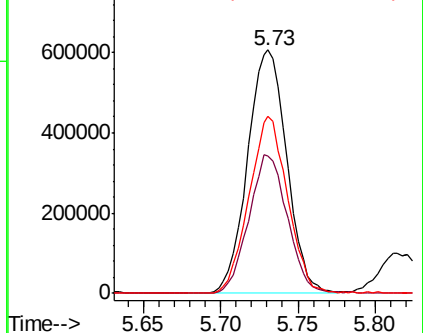
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 10.044 ppbv

RT: 3.06 min Scan# 37

Delta R.T. -0.01 min

Lab File: VL034019.D

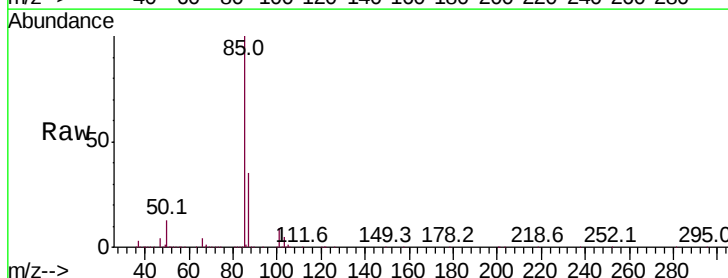
Acq: 11 Jul 2019 15:21

Tgt Ion: 85 Resp: 2214154

Ion Ratio Lower Upper

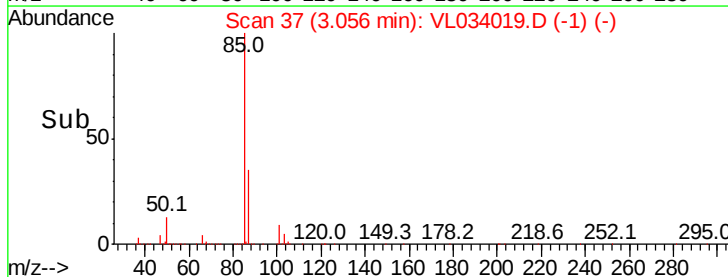
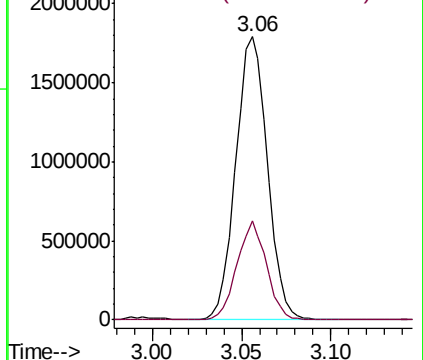
85 100

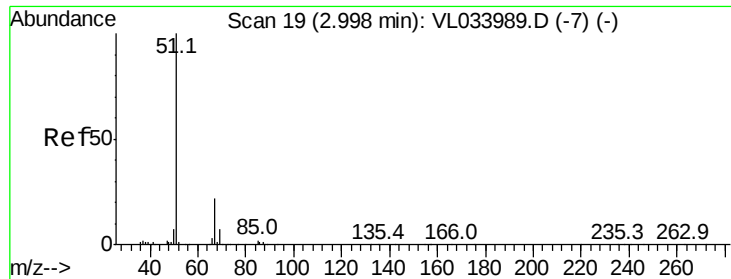
87 34.8 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





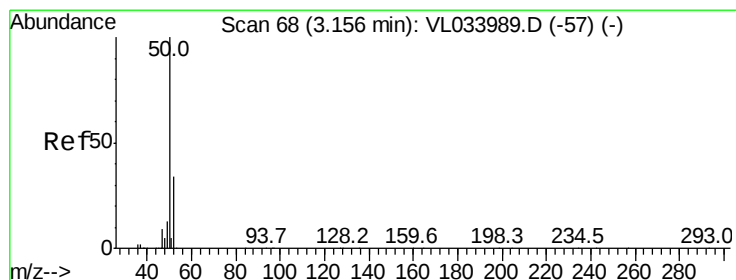
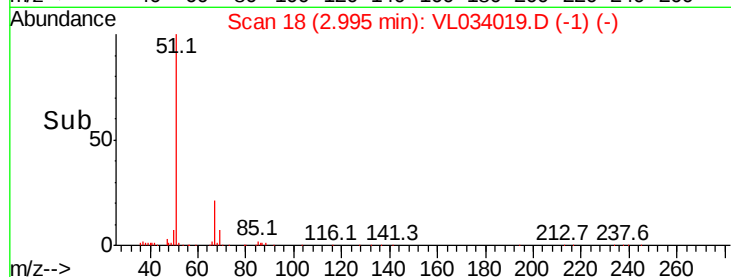
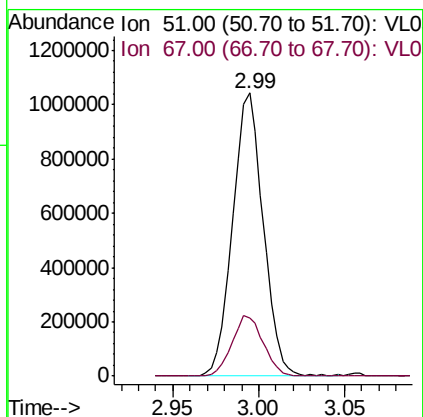
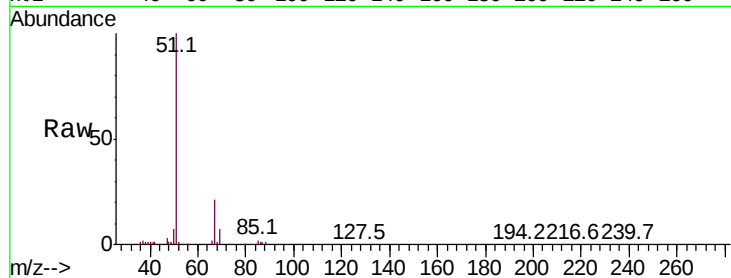
#3
Chlorodifluoromethane
Concen: 9.809 ppbv
RT: 2.99 min Scan# 18
Delta R.T. -0.00 min
Lab File: VL034019.D
Acq: 11 Jul 2019 15:21

Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS01

Tot Ion: 51 Resp: 1293910
Ion Ratio Lower Upper
51 100
67 22.2 17.3 25.9

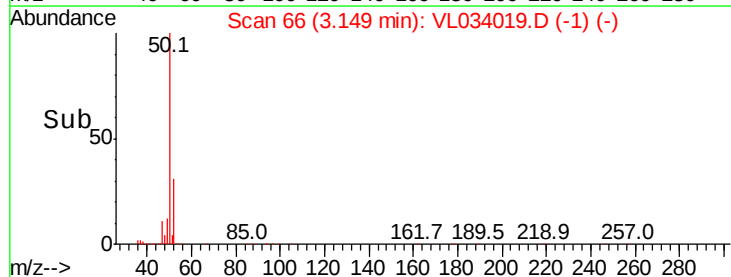
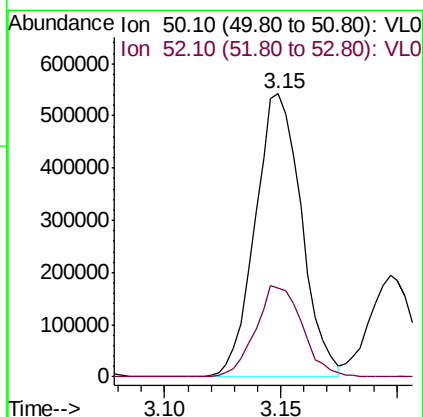
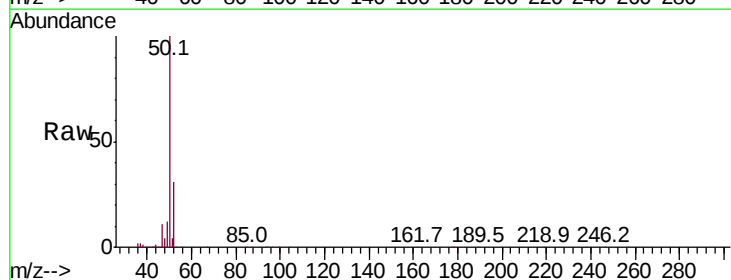
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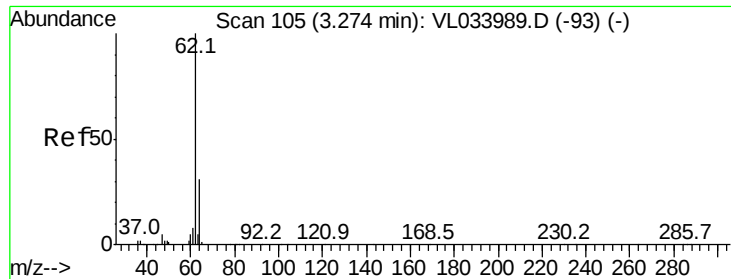
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#4
Chloromethane
Concen: 9.912 ppbv
RT: 3.15 min Scan# 66
Delta R.T. -0.01 min
Lab File: VL034019.D
Acq: 11 Jul 2019 15:21

Tgt Ion: 50 Resp: 751821
Ion Ratio Lower Upper
50 100
52 31.2 27.4 41.0





#5

Vinyl Chloride

Concen: 9.640 ppbv

RT: 3.27 min Scan# 103

Delta R.T. -0.01 min

Lab File: VL034019.D

Acq: 11 Jul 2019 15:21

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS01

Tot Ion: 62 Resp: 822169

Ion Ratio Lower Upper

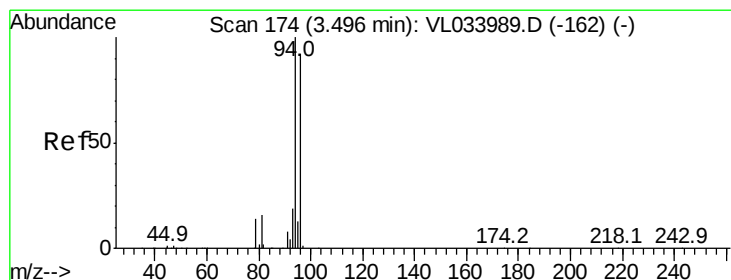
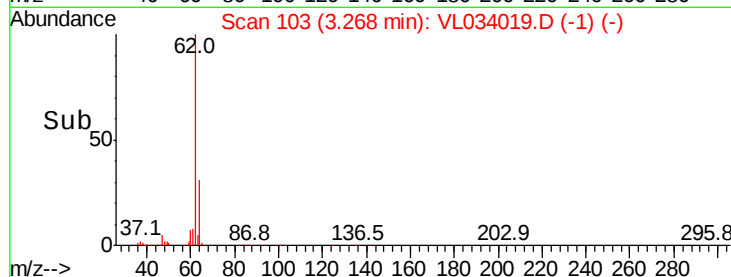
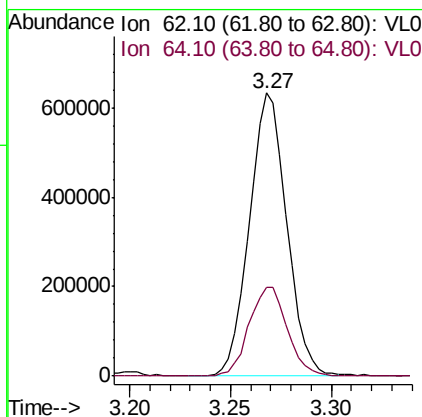
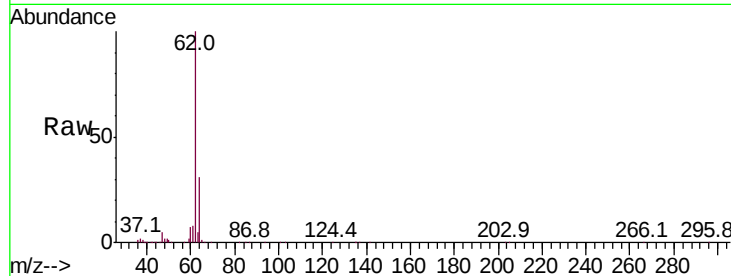
62 100

64 31.5 24.4 36.6

Manual Integrations
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7/12/2019 10:46:54 PM



#6

Bromomethane

Concen: 10.703 ppbv

RT: 3.49 min Scan# 172

Delta R.T. -0.01 min

Lab File: VL034019.D

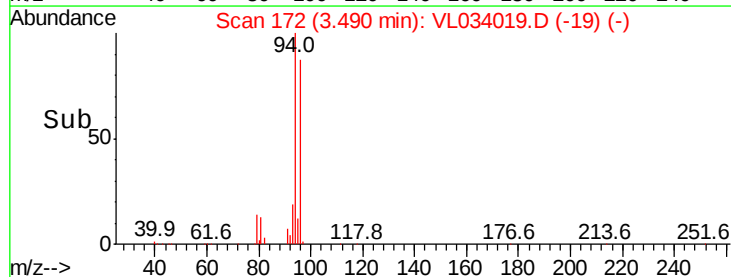
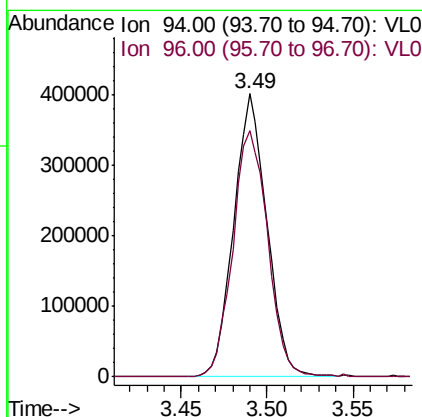
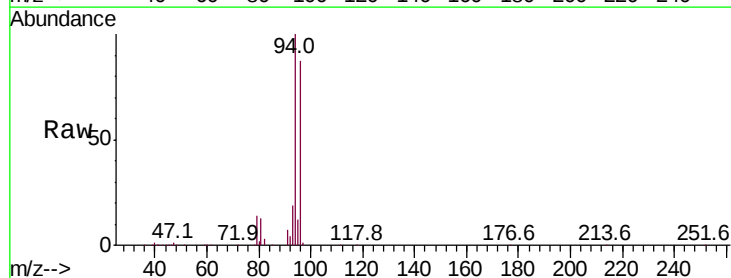
Acq: 11 Jul 2019 15:21

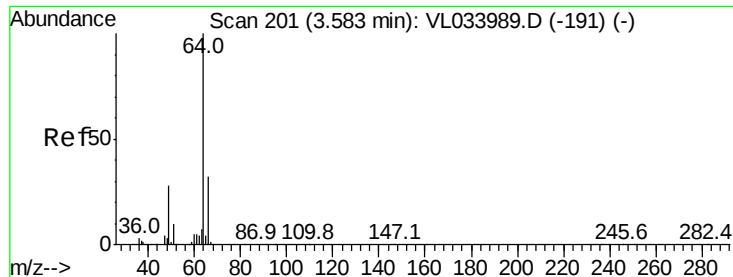
Tgt Ion: 94 Resp: 538300

Ion Ratio Lower Upper

94 100

96 87.0 73.8 110.8





#7

Chloroethane

Concen: 10.364 ppbv

RT: 3.58 min Scan# 200

Delta R.T. -0.00 min

Lab File: VL034019.D

Acq: 11 Jul 2019 15:21

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS01

Tot Ion: 64 Resp: 315928

Ion Ratio Lower Upper

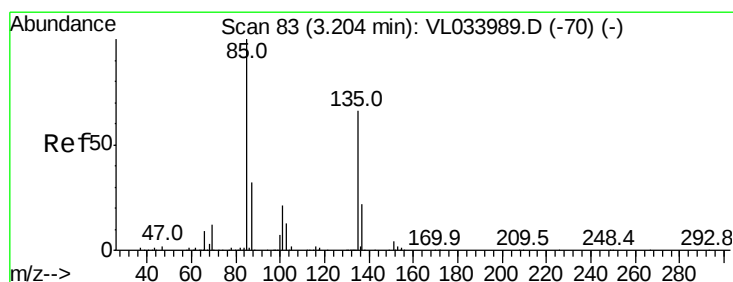
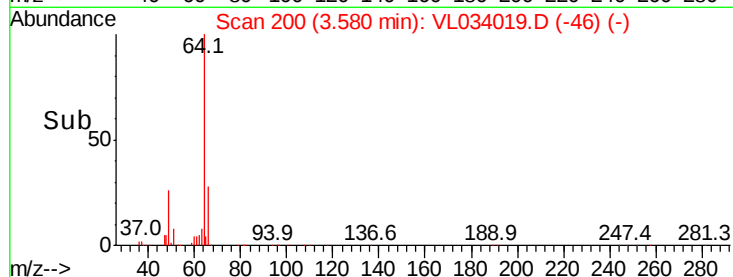
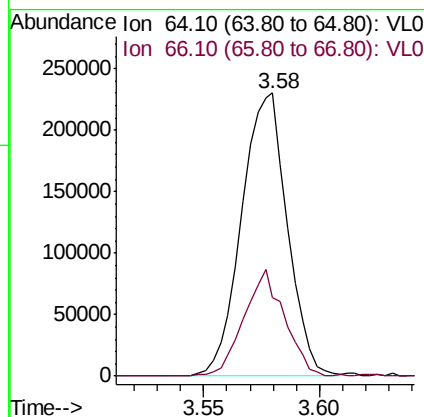
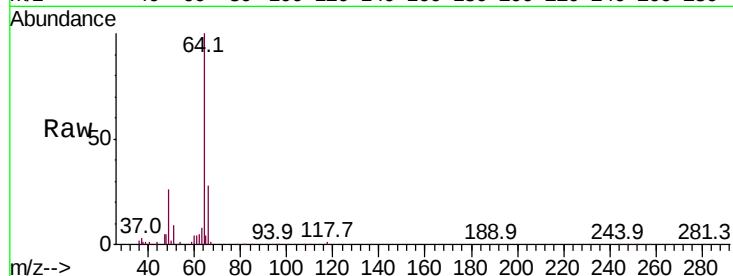
64 100

66 27.8 25.3 37.9

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#8

Dichlorotetrafluoroethane

Concen: 9.851 ppbv

RT: 3.20 min Scan# 81

Delta R.T. -0.01 min

Lab File: VL034019.D

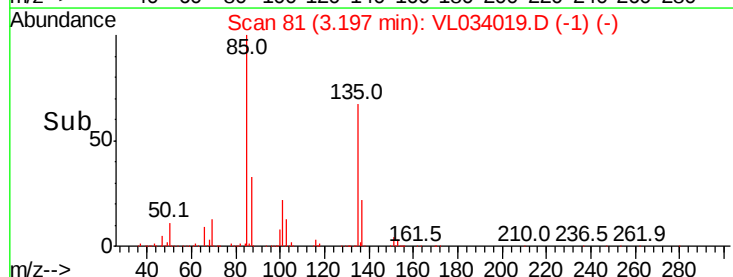
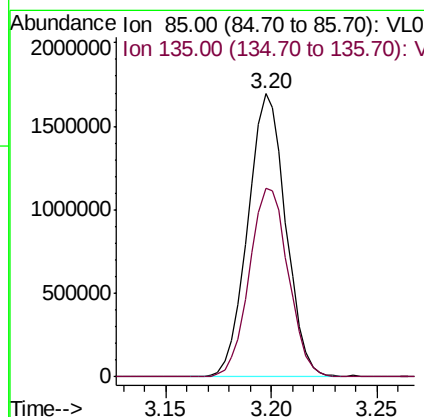
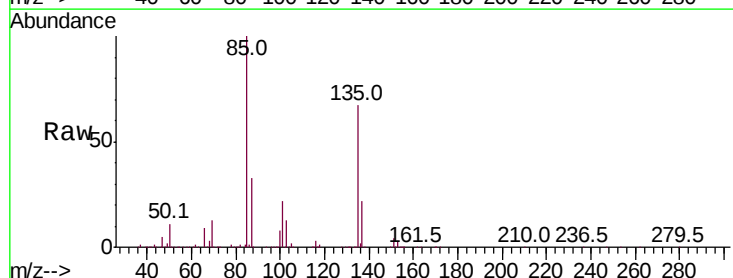
Acq: 11 Jul 2019 15:21

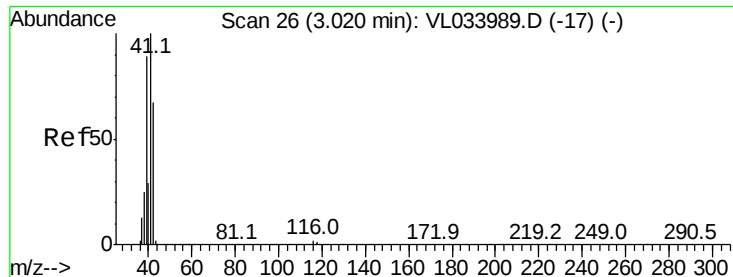
Tgt Ion: 85 Resp: 2117165

Ion Ratio Lower Upper

85 100

135 68.9 55.0 82.4





#9

Propene

Concen: 10.477 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.01 min

Lab File: VL034019.D

Acq: 11 Jul 2019 15:21

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS01

Tot Ion: 41 Resp: 508371

Ion Ratio Lower Upper

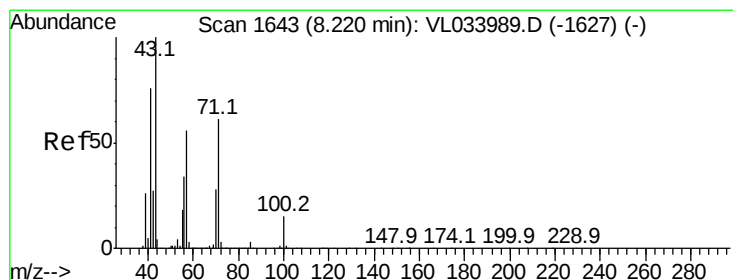
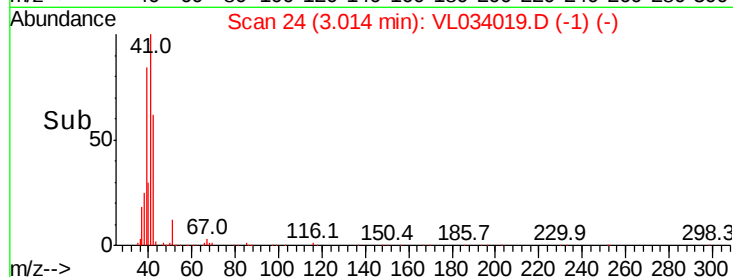
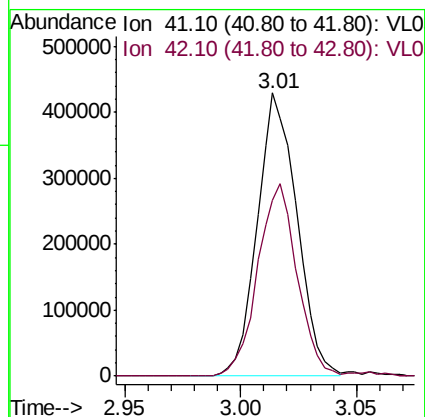
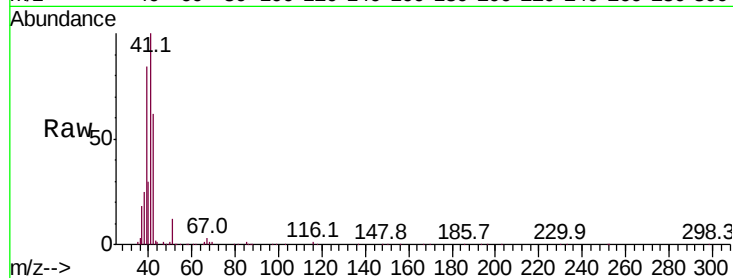
41 100

42 69.1 57.1 85.7

Manual Integrations
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7/12/2019 10:46:54 PM



#10

Heptane

Concen: 11.886 ppbv

RT: 8.21 min Scan# 1639

Delta R.T. -0.01 min

Lab File: VL034019.D

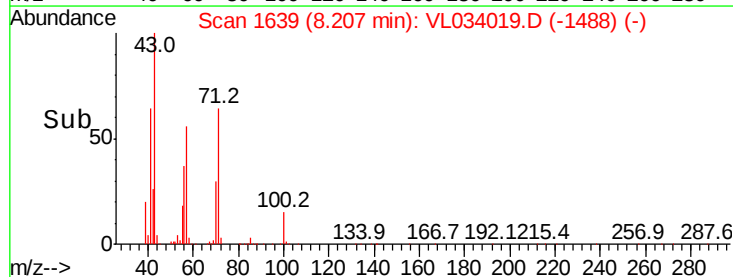
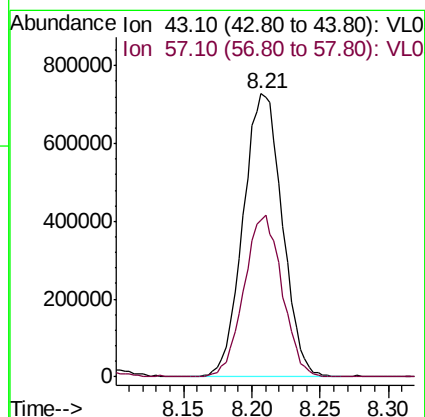
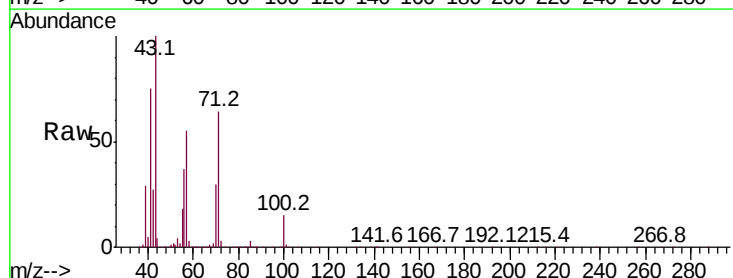
Acq: 11 Jul 2019 15:21

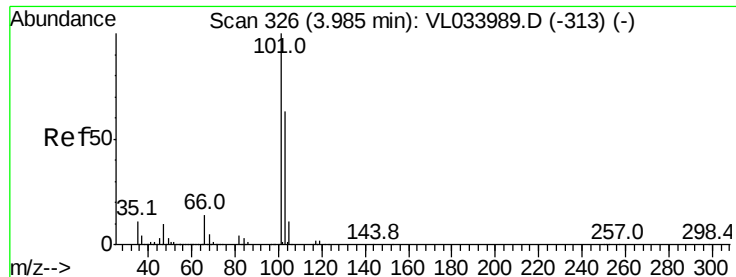
Tgt Ion: 43 Resp: 1444187

Ion Ratio Lower Upper

43 100

57 55.8 44.6 66.8





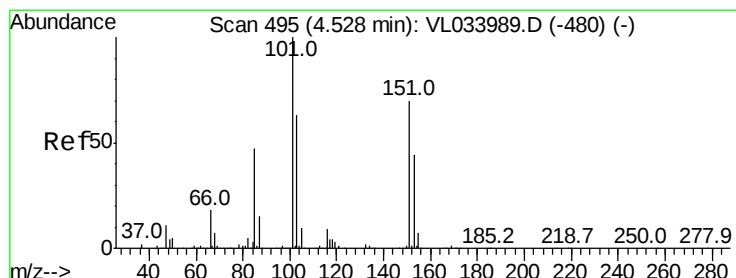
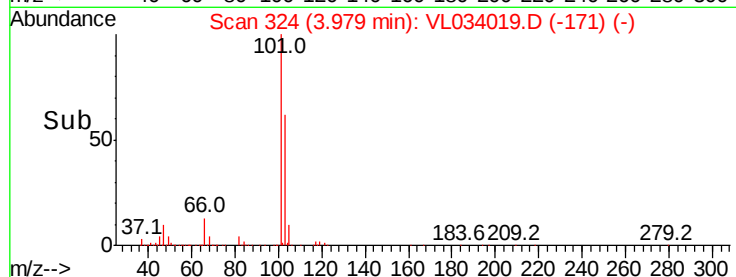
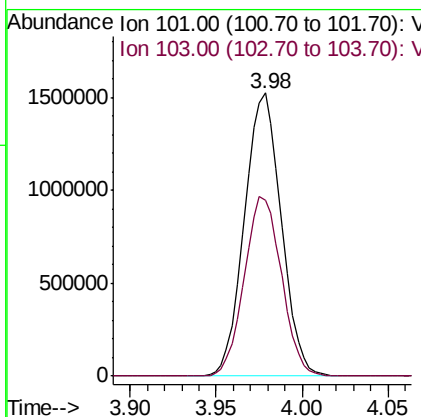
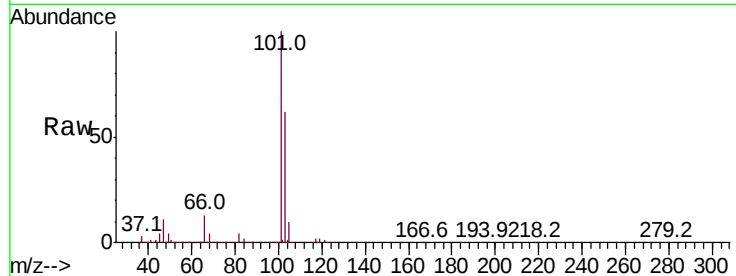
#11
 Trichlorofluoromethane
 Concen: 9.112 ppbv
 RT: 3.98 min Scan# 324
 Delta R.T. -0.01 min
 Lab File: VL034019.D
 Acq: 11 Jul 2019 15:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0711ABS01

Tot Ion:101 Resp: 2258511
 Ion Ratio Lower Upper
 101 100
 103 62.2 50.8 76.2

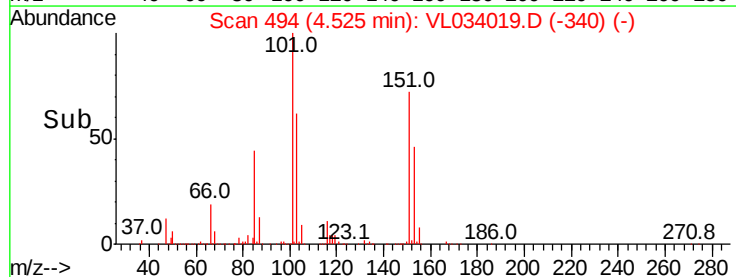
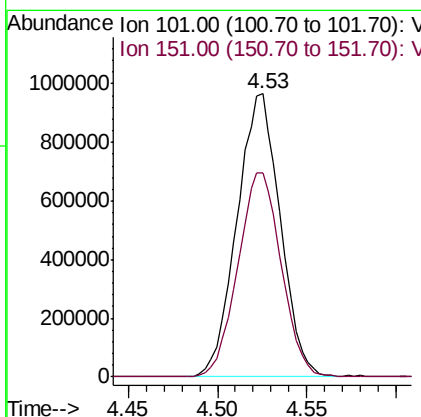
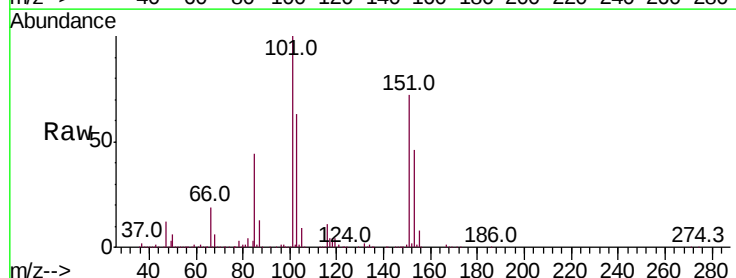
Manual Integrations
 APPROVED

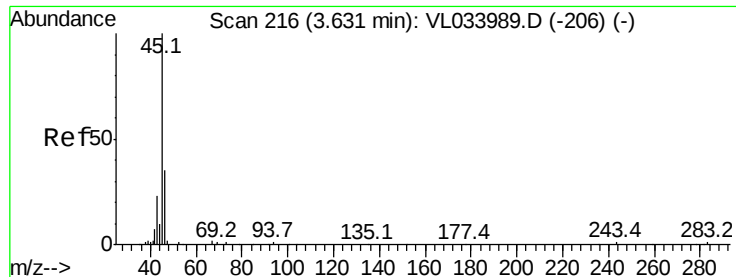
MMDadoda
 7/12/2019 10:46:54 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.290 ppbv
 RT: 4.53 min Scan# 494
 Delta R.T. -0.00 min
 Lab File: VL034019.D
 Acq: 11 Jul 2019 15:21

Tgt Ion:101 Resp: 1629883
 Ion Ratio Lower Upper
 101 100
 151 72.8 59.0 88.4





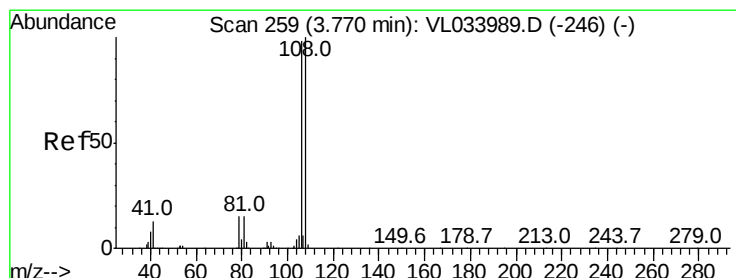
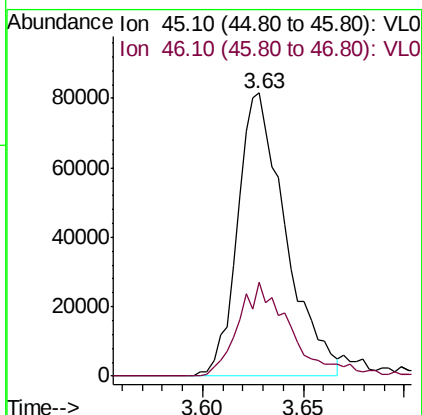
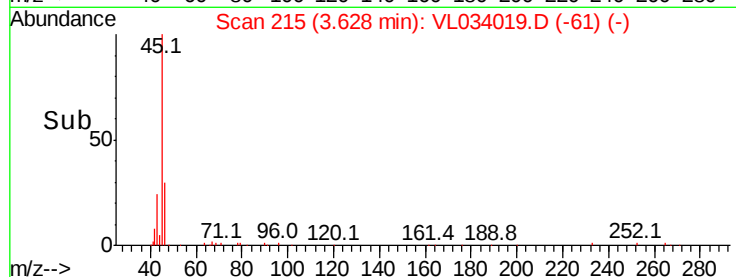
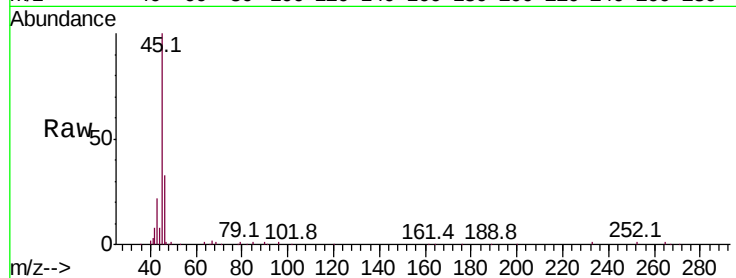
#13
Ethanol
Concen: 8.995 ppbv
RT: 3.63 min Scan# 215
Delta R.T. -0.00 min
Lab File: VL034019.D
Acq: 11 Jul 2019 15:21

Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS01

Tot Ion	Ratio	Lower	Upper
45	100		
46	37.7	16.2	64.6

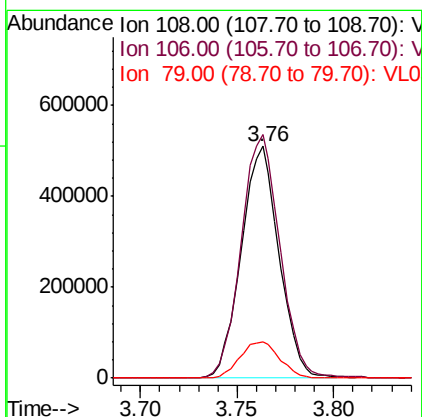
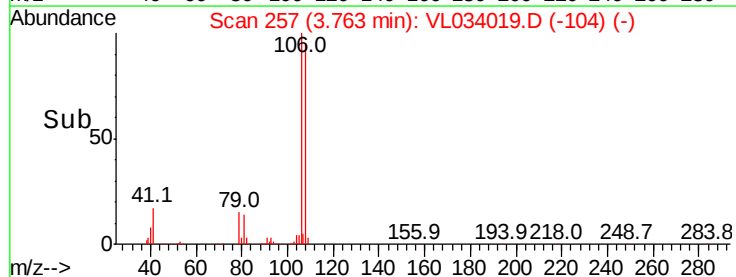
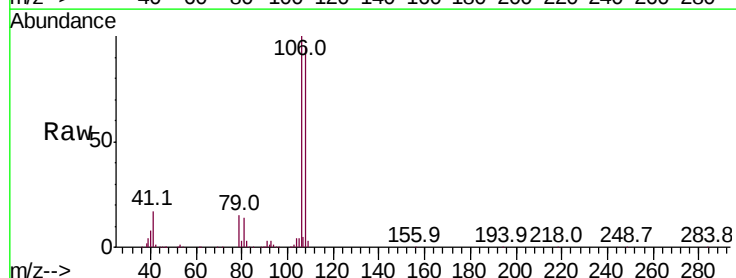
Manual Integrations
APPROVED

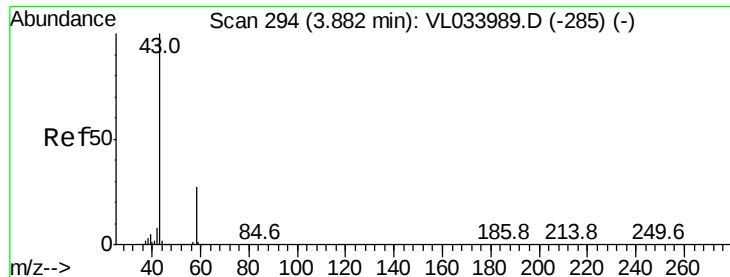
MMDadoda
7/12/2019 10:46:54 PM



#14
Bromoethene
Concen: 10.605 ppbv
RT: 3.76 min Scan# 257
Delta R.T. -0.01 min
Lab File: VL034019.D
Acq: 11 Jul 2019 15:21

Tgt Ion	Ratio	Lower	Upper
108	100		
106	108.2	85.6	128.4
79	16.8	14.0	21.0





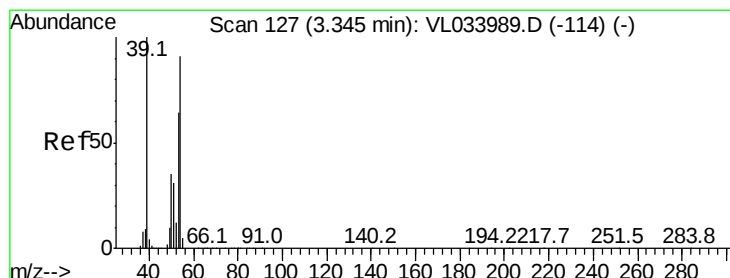
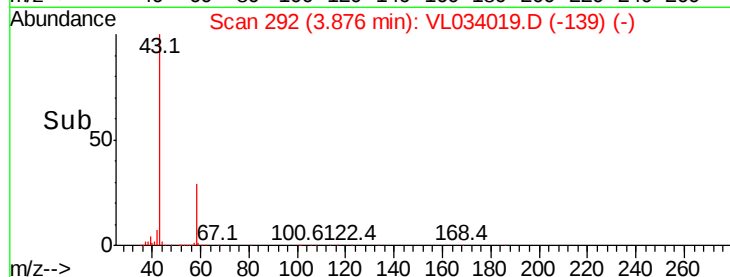
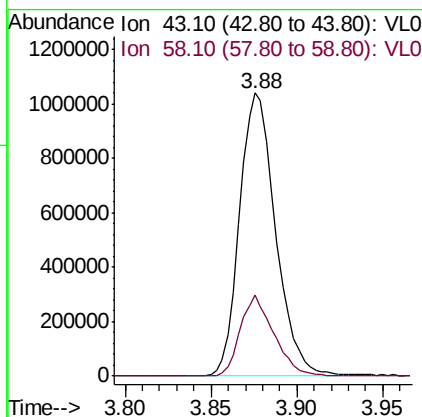
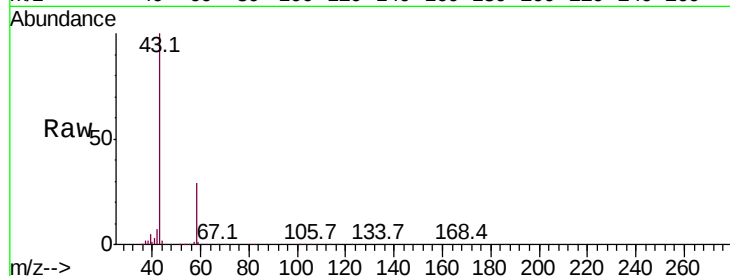
#15
Acetone
Concen: 8.455 ppbv
RT: 3.88 min Scan# 292
Delta R.T. -0.01 min
Lab File: VL034019.D
Acq: 11 Jul 2019 15:21

Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS01

Tot Ion: 43 Resp: 1518479
Ion Ratio Lower Upper
43 100
58 26.8 21.4 32.0

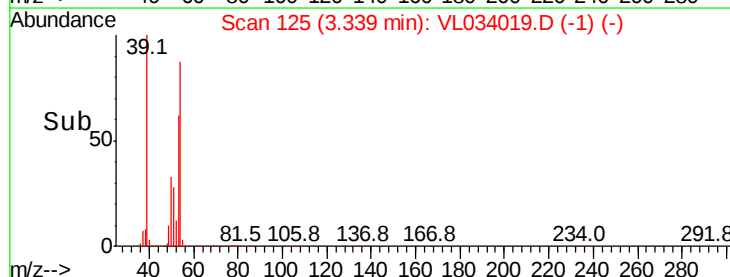
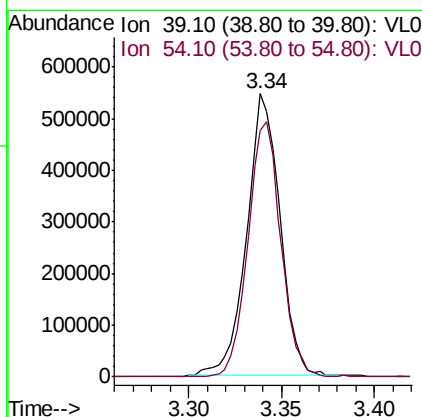
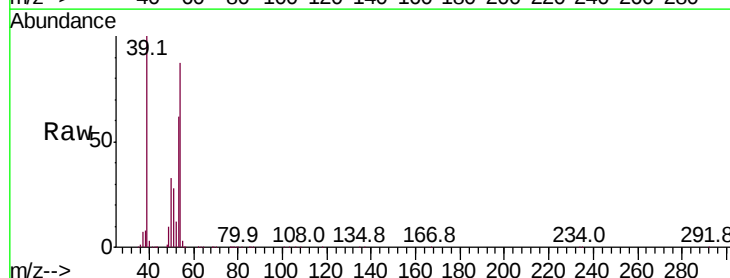
Manual Integrations
APPROVED

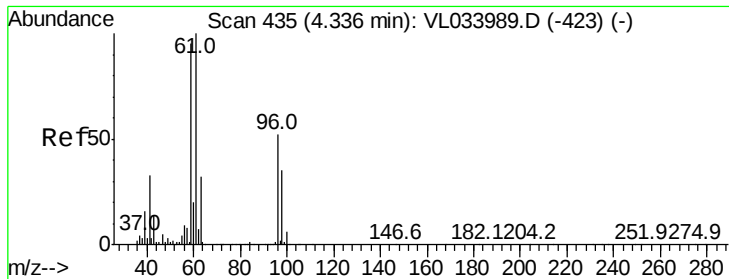
MMDadoda
7/12/2019 10:46:54 PM



#16
1,3-Butadiene
Concen: 10.771 ppbv
RT: 3.34 min Scan# 125
Delta R.T. -0.01 min
Lab File: VL034019.D
Acq: 11 Jul 2019 15:21

Tgt Ion: 39 Resp: 683091
Ion Ratio Lower Upper
39 100
54 89.4 71.4 107.2





#17

tert-Butyl alcohol

Concen: 10.336 ppbv

RT: 4.33 min Scan# 433

Delta R.T. -0.01 min

Lab File: VL034019.D

Acq: 11 Jul 2019 15:21

Instrument :
MSVOA_L

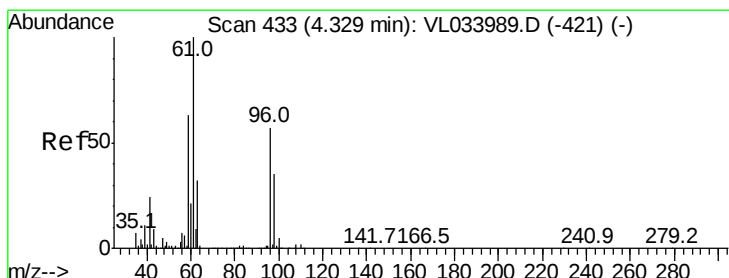
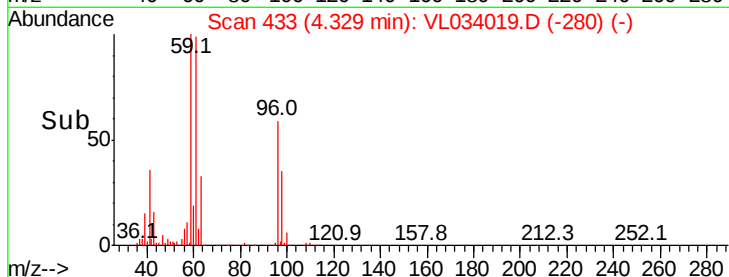
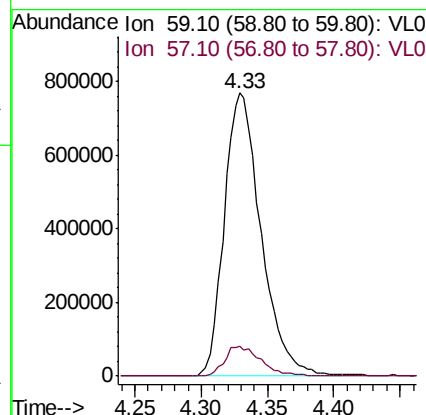
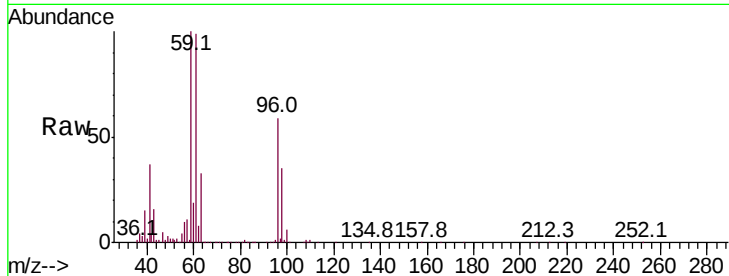
ClientSampleId :
VL0711ABS01

Tot Ion: 59 Resp: 1480035

Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.2	12.2

Manual Integrations
APPROVED

MMDadoda
7/12/2019 10:46:54 PM



#18

1,1-Dichloroethene

Concen: 9.748 ppbv

RT: 4.32 min Scan# 431

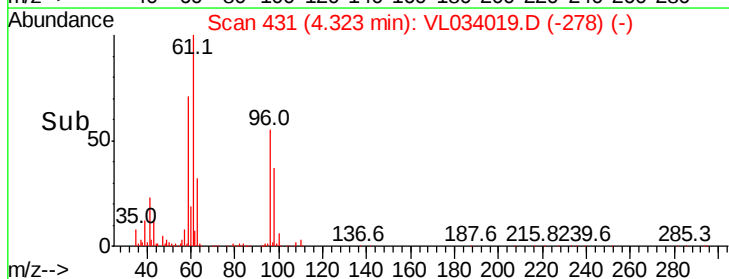
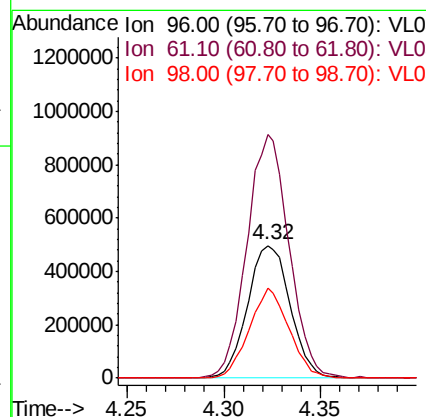
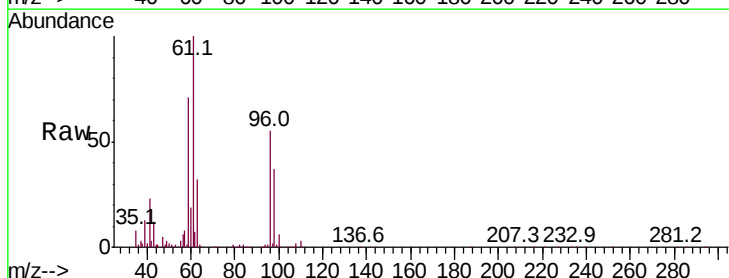
Delta R.T. -0.01 min

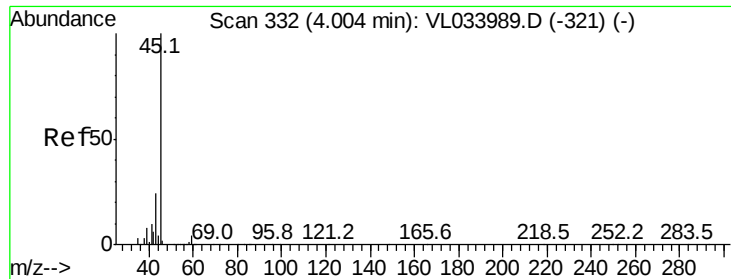
Lab File: VL034019.D

Acq: 11 Jul 2019 15:21

Tgt Ion: 96 Resp: 761722

Ion	Ratio	Lower	Upper
96	100		
61	183.2	139.4	209.0
98	67.6	49.4	74.0





#19

Isopropyl Alcohol

Concen: 9.555 ppbv

RT: 4.00 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL034019.D

Acq: 11 Jul 2019 15:21

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS01

Tot Ion: 45 Resp: 1151871

Ion Ratio Lower Upper

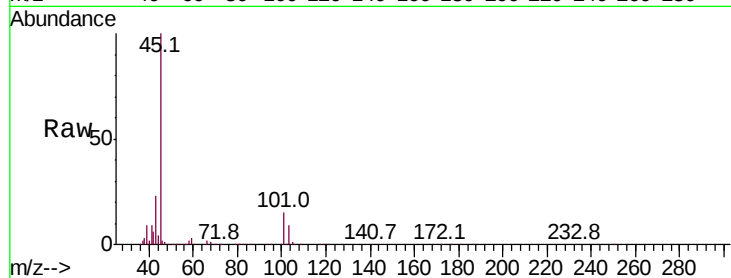
45 100

58 2.5 1.7 2.5

Manual Integrations
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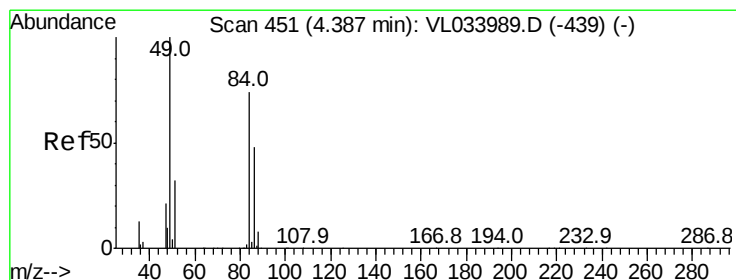
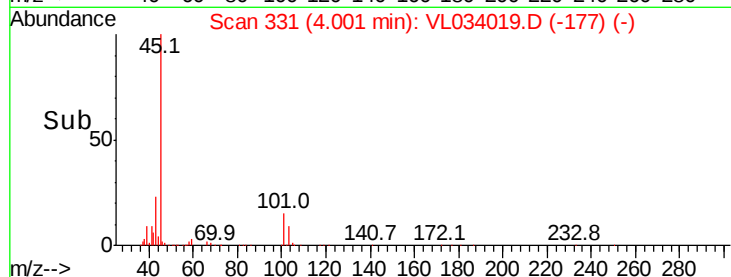
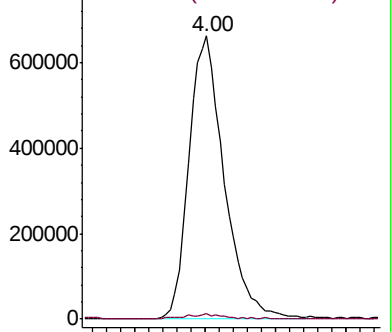
MMDadoda

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 8.358 ppbv

RT: 4.38 min Scan# 449

Delta R.T. -0.01 min

Lab File: VL034019.D

Acq: 11 Jul 2019 15:21

Tgt Ion: 84 Resp: 654665

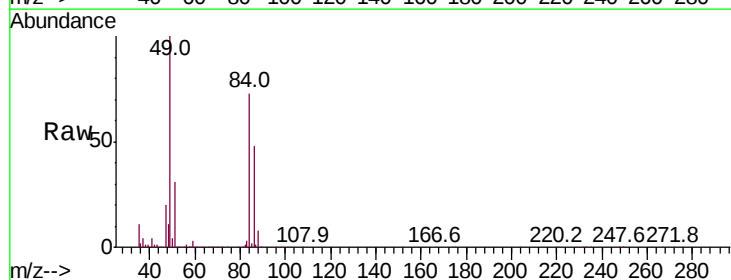
Ion Ratio Lower Upper

84 100

49 135.9 107.6 161.4

51 41.6 35.0 52.6

86 65.8 52.1 78.1

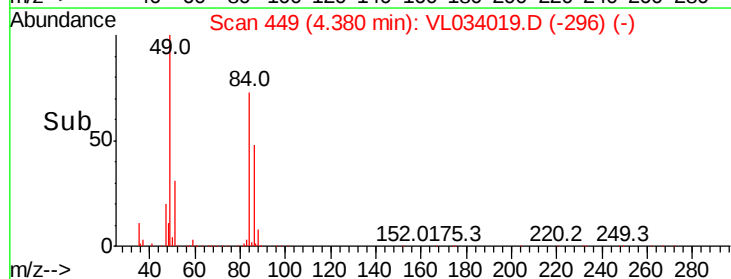
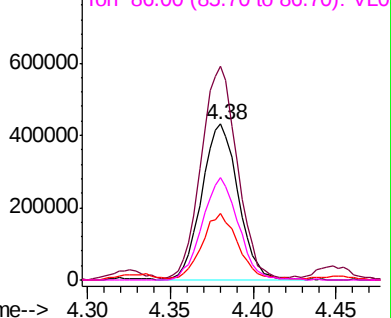


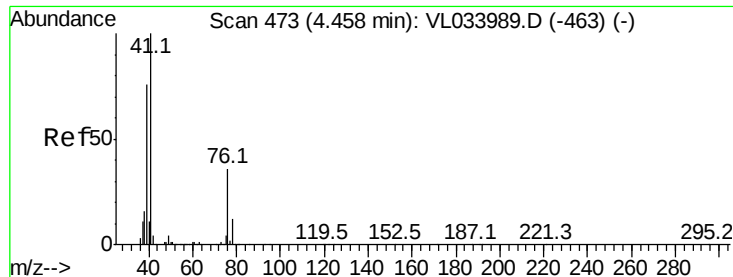
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





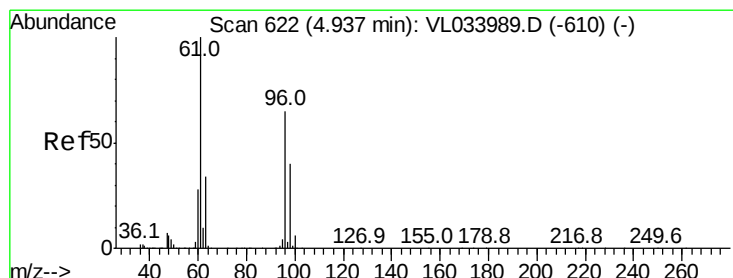
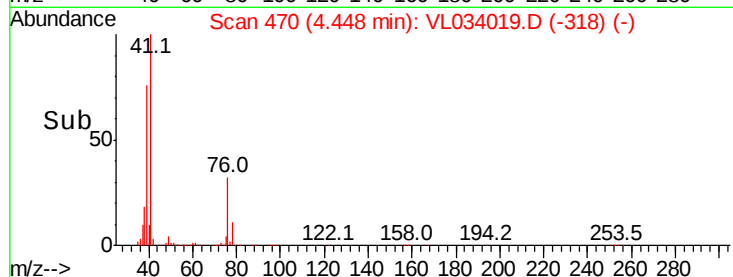
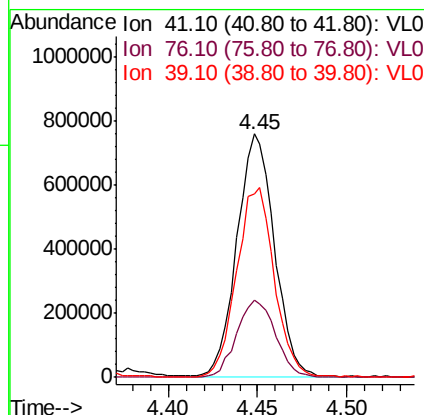
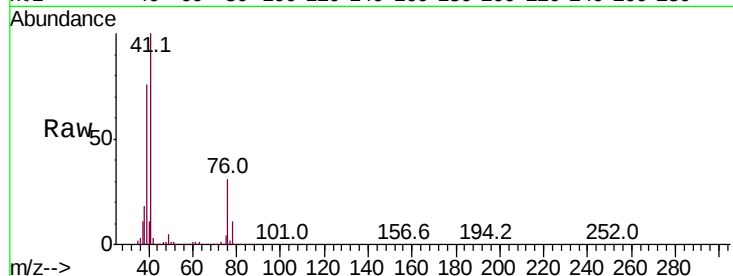
#21
Allvl Chloride
Concen: 9.909 ppbv
RT: 4.45 min Scan# 470
Delta R.T. -0.01 min
Lab File: VL034019.D
Acq: 11 Jul 2019 15:21

Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS01

Tot Ion	Ratio	Lower	Upper
41	100		
76	33.3	26.8	40.2
39	78.5	63.1	94.7

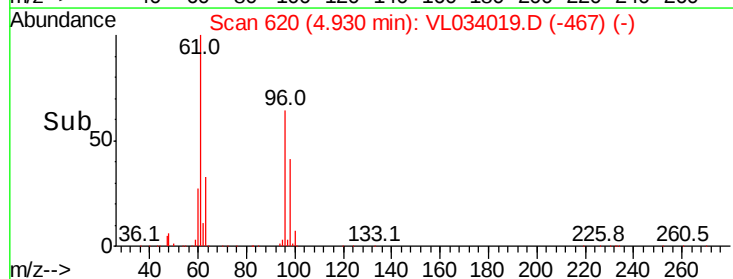
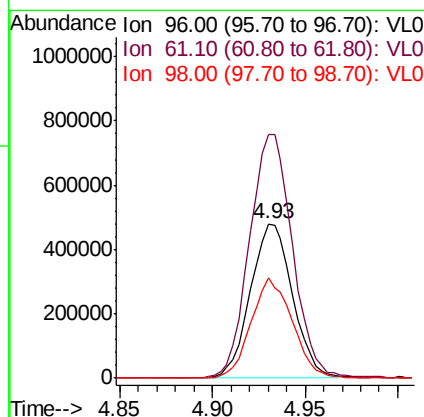
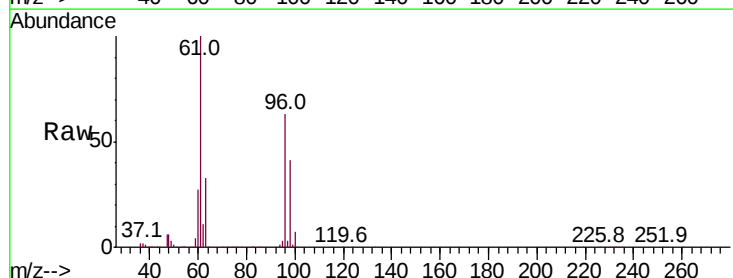
Manual Integrations
APPROVED

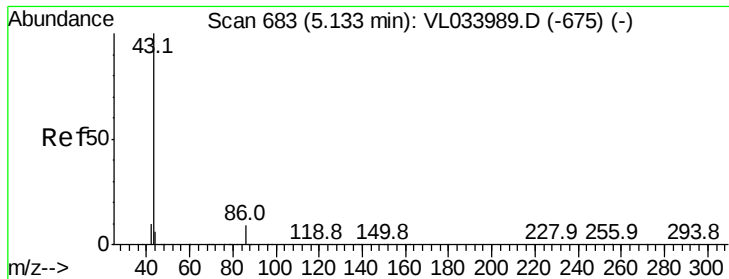
MMDadoda
7/12/2019 10:46:54 PM



#22
trans-1,2-Dichloroethene
Concen: 10.155 ppbv
RT: 4.93 min Scan# 620
Delta R.T. -0.01 min
Lab File: VL034019.D
Acq: 11 Jul 2019 15:21

Tgt Ion	Ratio	Lower	Upper
96	100		
61	157.5	122.9	184.3
98	64.7	49.6	74.4





#23

Vinyl Acetate

Concen: 10.970 ppbv

RT: 5.12 min Scan# 680

Delta R.T. -0.01 min

Lab File: VL034019.D

Acq: 11 Jul 2019 15:21

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS01

Tot Ion: 43 Resp: 1966497

Ion Ratio Lower Upper

43 100

86 8.4 6.6 9.8

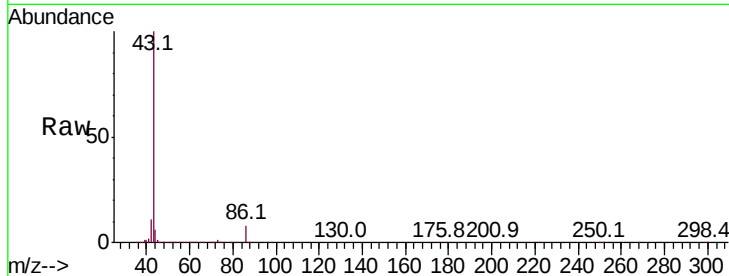
42 10.8 8.3 12.5

44 5.5 4.3 6.5

Manual Integrations
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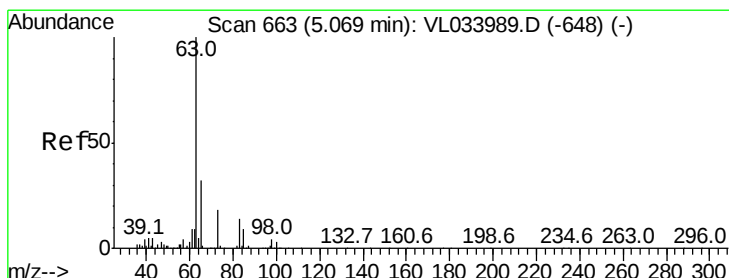
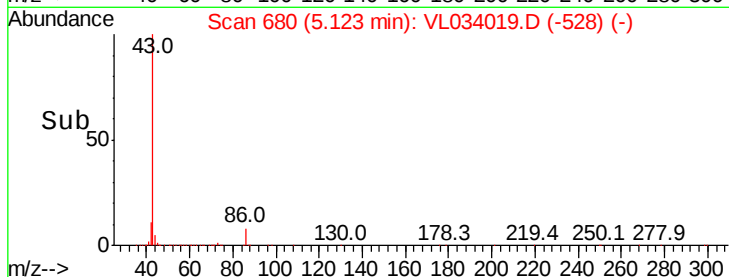
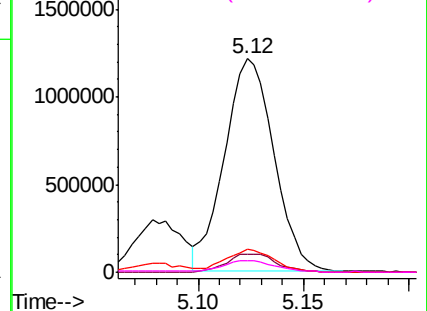


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 10.107 ppbv

RT: 5.06 min Scan# 660

Delta R.T. -0.01 min

Lab File: VL034019.D

Acq: 11 Jul 2019 15:21

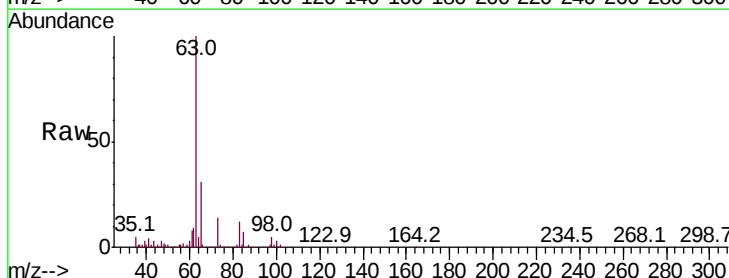
Tgt Ion: 63 Resp: 1605677

Ion Ratio Lower Upper

63 100

98 4.5 2.2 6.6

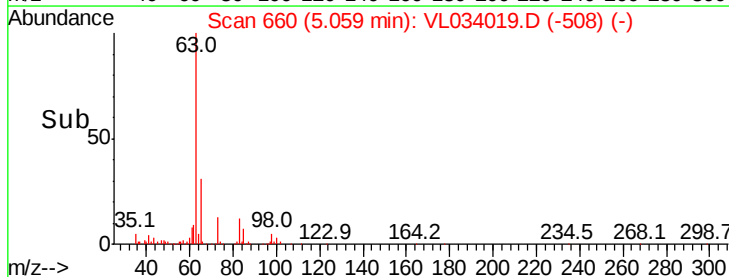
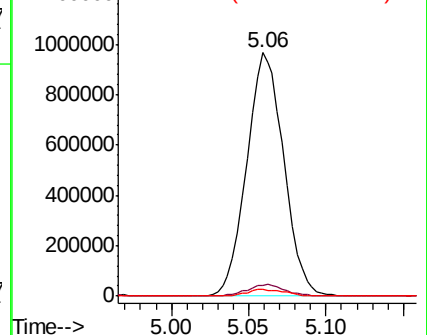
100 2.7 1.4 4.2

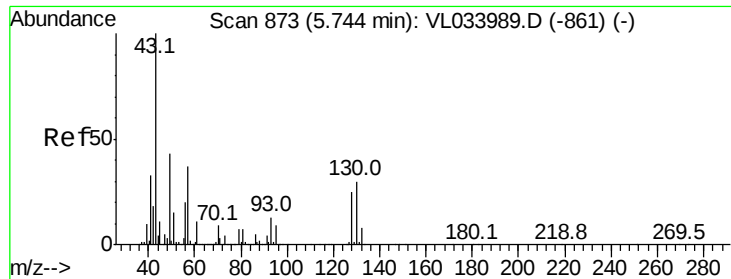


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





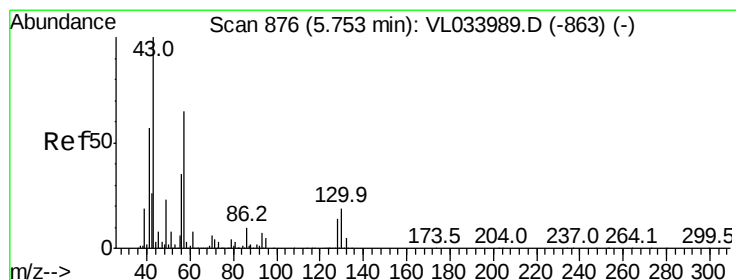
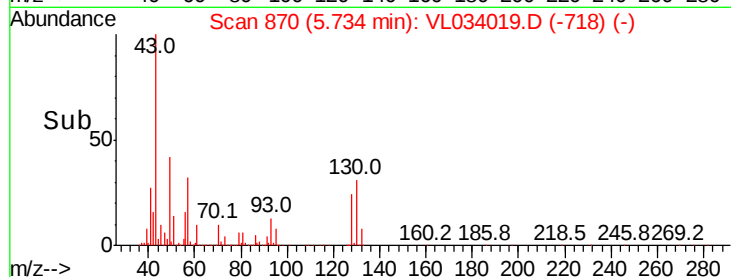
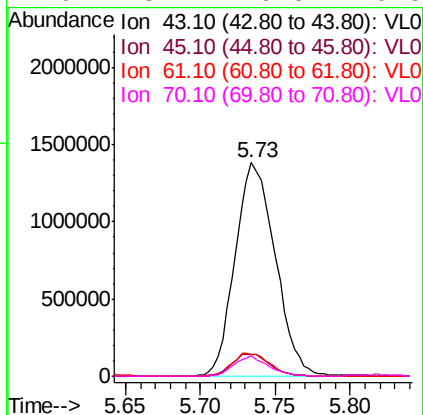
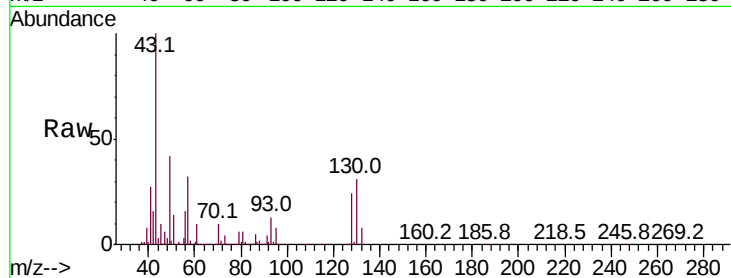
#25
Ethyl Acetate
Concen: 10.524 ppbv
RT: 5.73 min Scan# 870
Delta R.T. -0.01 min
Lab File: VL034019.D
Acq: 11 Jul 2019 15:21

Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS01

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	10.0	8.1	12.1	
61	10.3	8.1	12.1	
70	8.1	6.3	9.5	

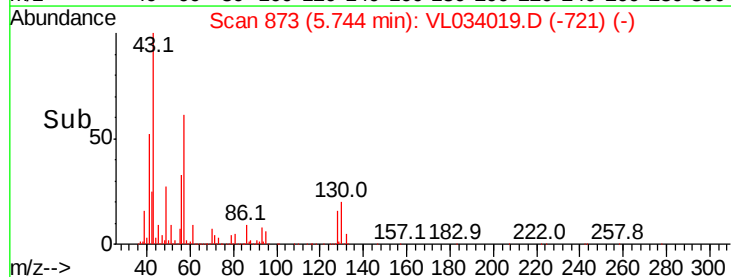
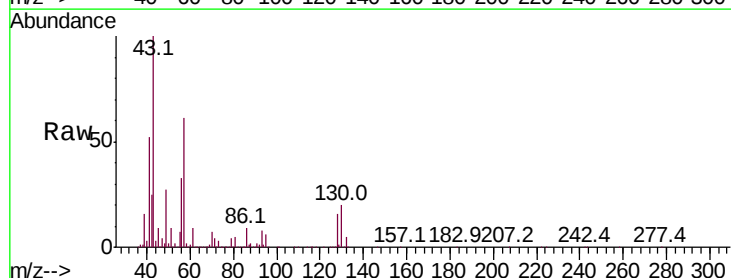
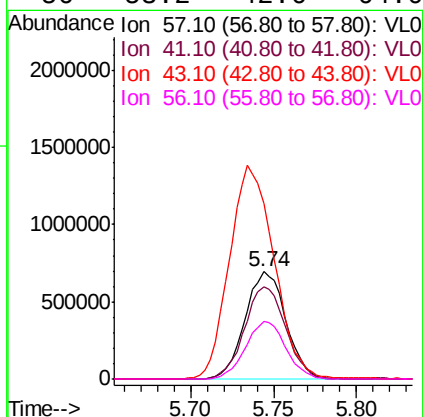
Manual Integrations
APPROVED

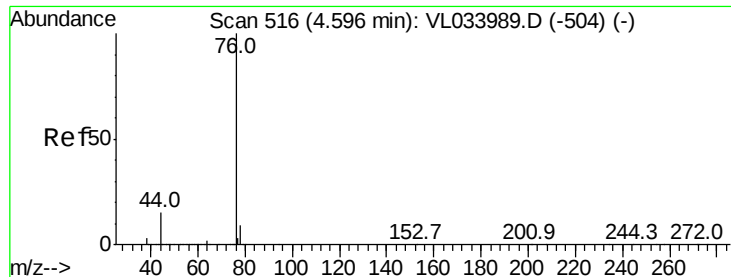
MMDadoda
7/12/2019 10:46:54 PM



#26
Hexane
Concen: 10.565 ppbv
RT: 5.74 min Scan# 873
Delta R.T. -0.01 min
Lab File: VL034019.D
Acq: 11 Jul 2019 15:21

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	87.5	70.6	105.8	
43	219.7	177.6	266.4	
56	53.2	42.6	64.0	





#27

Carbon Disulfide

Concen: 10.236 ppbv

RT: 4.59 min Scan# 514

Delta R.T. -0.01 min

Lab File: VL034019.D

Acq: 11 Jul 2019 15:21

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS01

Tot Ion: 76 Resp: 1956158

Ion Ratio Lower Upper

76 100

44 15.9 12.6 18.8

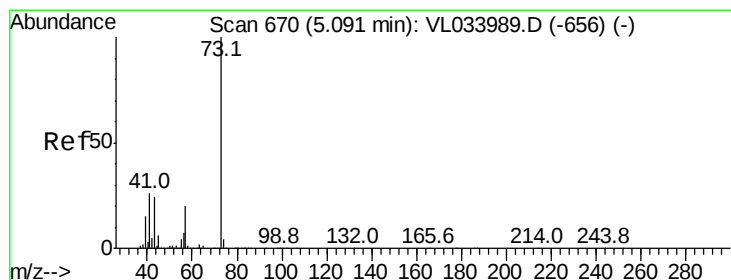
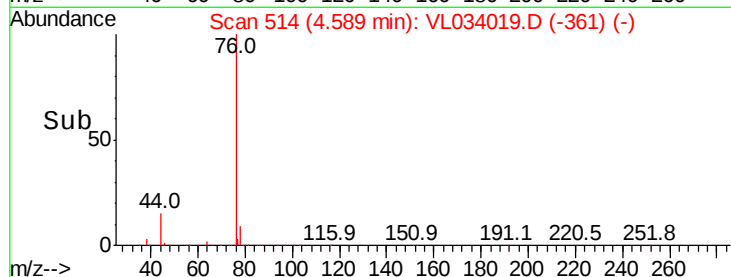
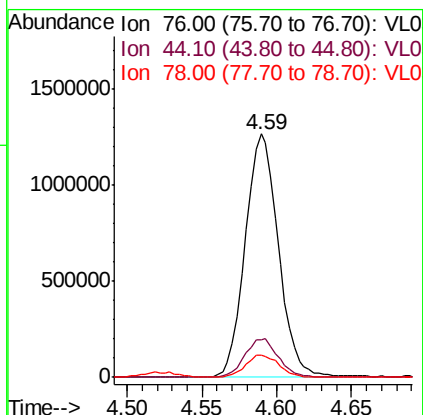
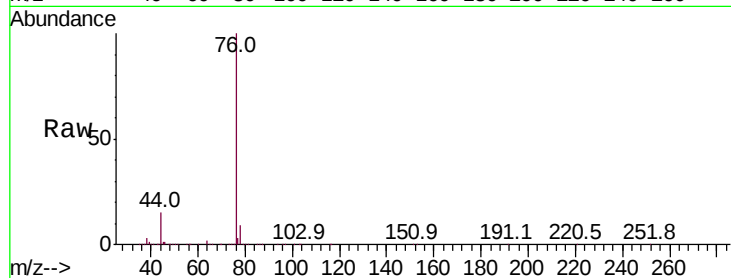
78 9.5 7.2 10.8

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#28

Methyl tert-Butyl Ether

Concen: 10.864 ppbv

RT: 5.08 min Scan# 667

Delta R.T. -0.01 min

Lab File: VL034019.D

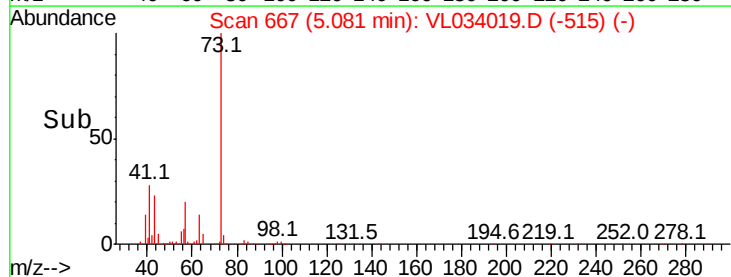
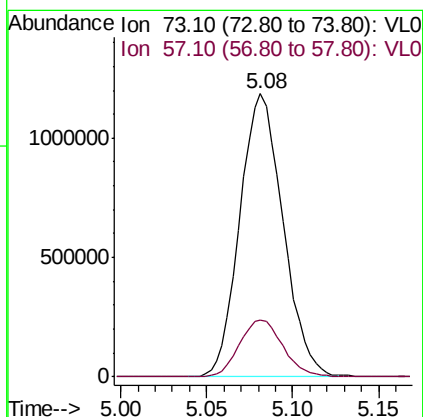
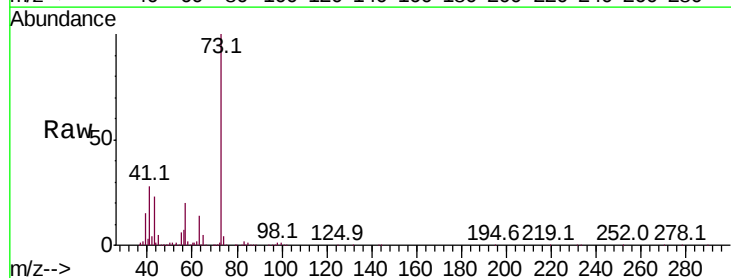
Acq: 11 Jul 2019 15:21

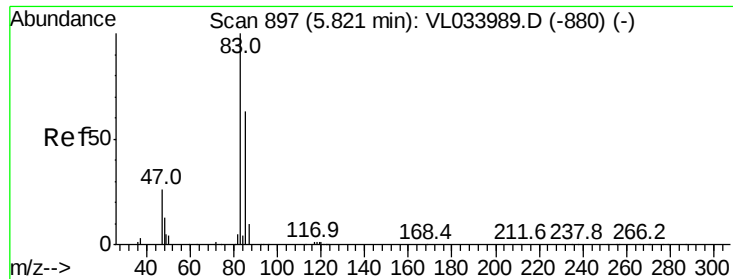
Tgt Ion: 73 Resp: 2068022

Ion Ratio Lower Upper

73 100

57 20.5 16.9 25.3





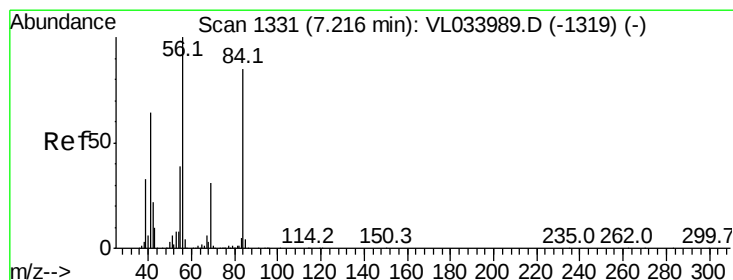
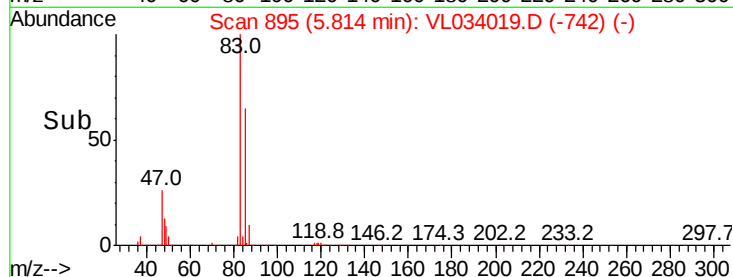
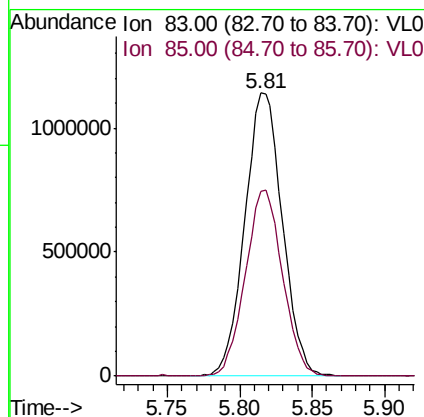
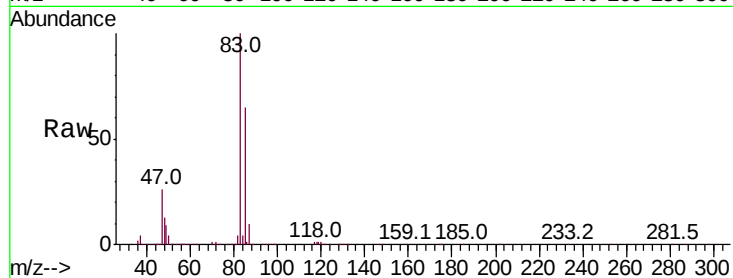
#29
Chloroform
Concen: 9.753 ppbv
RT: 5.81 min Scan# 895
Delta R.T. -0.01 min
Lab File: VL034019.D
Acq: 11 Jul 2019 15:21

Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS01

Tot Ion: 83 Resp: 2060206
Ion Ratio Lower Upper
83 100
85 65.3 50.6 75.8

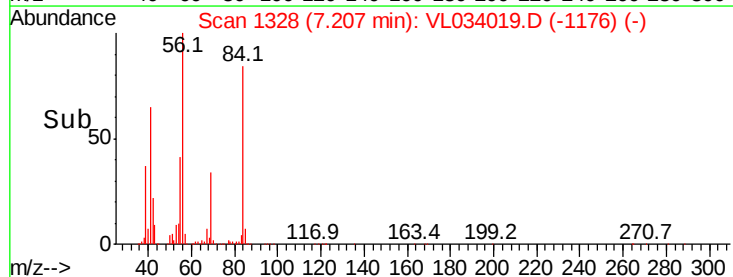
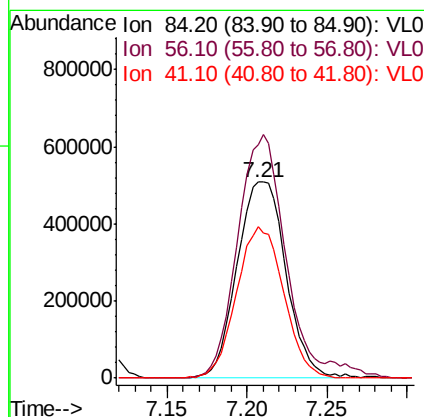
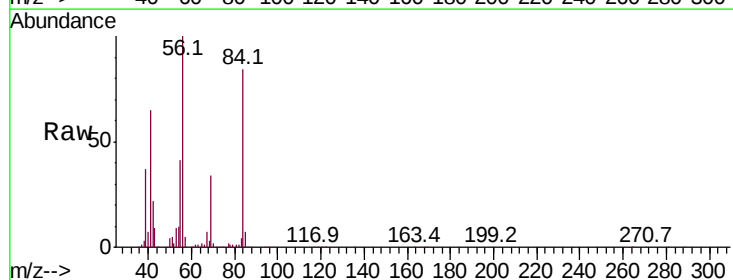
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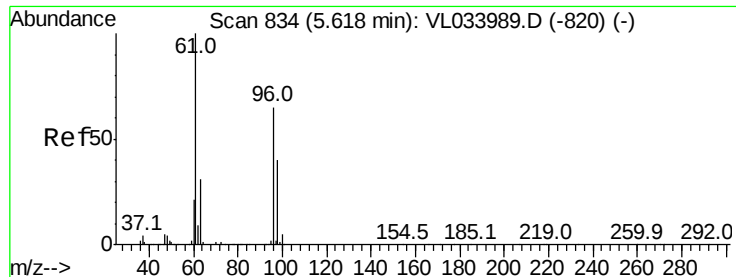
MMDadoda
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#30
Cyclohexane
Concen: 12.152 ppbv
RT: 7.21 min Scan# 1328
Delta R.T. -0.01 min
Lab File: VL034019.D
Acq: 11 Jul 2019 15:21

Tgt Ion: 84 Resp: 1054942
Ion Ratio Lower Upper
84 100
56 125.5 103.7 155.5
41 75.3 62.6 94.0





#31

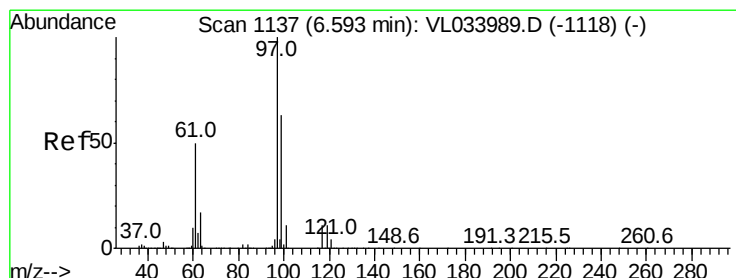
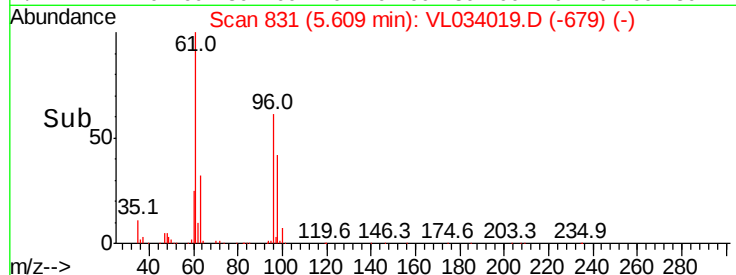
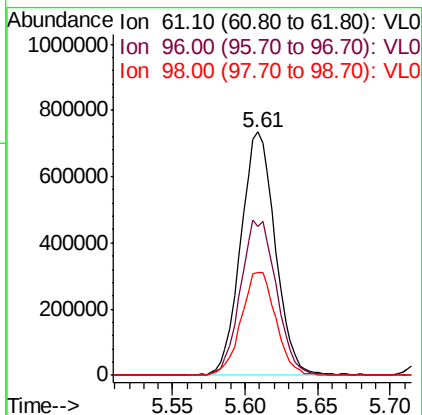
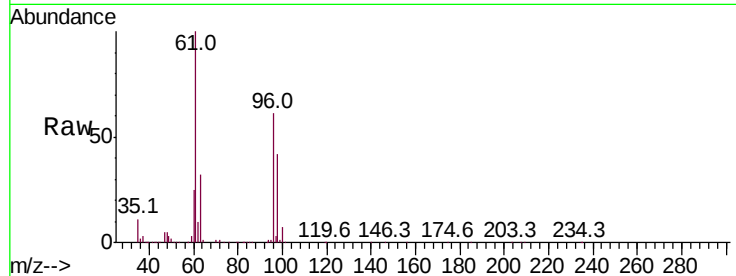
cis-1,2-Dichloroethene
Concen: 11.221 ppbv
RT: 5.61 min Scan# 831
Delta R.T. -0.01 min
Lab File: VL034019.D
Acq: 11 Jul 2019 15:21

Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	61.2	51.8	77.6
98	42.1	32.1	48.1

Manual Integrations
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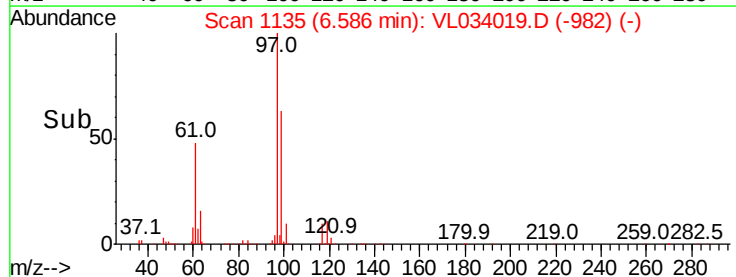
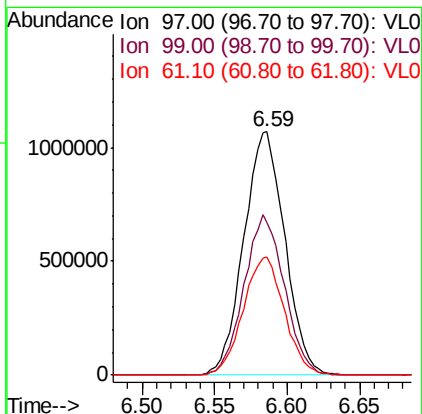
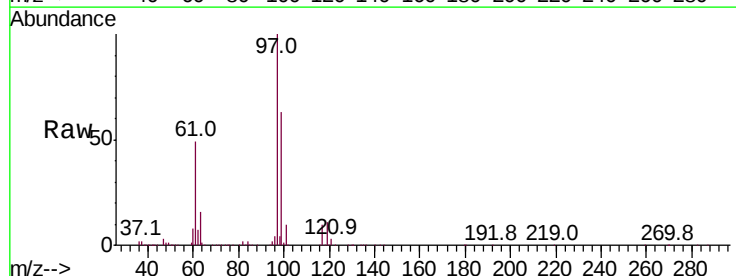
MMDadoda
7/12/2019 10:46:54 PM

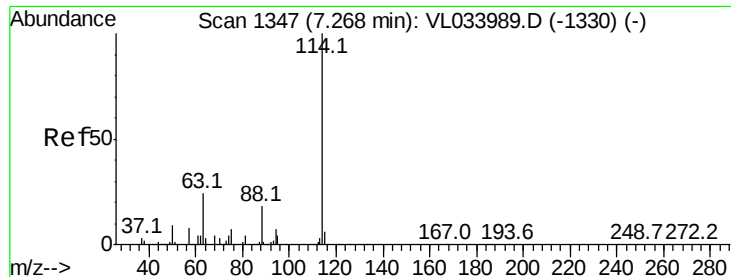


#32

1,1,1-Trichloroethane
Concen: 9.849 ppbv
RT: 6.59 min Scan# 1135
Delta R.T. -0.01 min
Lab File: VL034019.D
Acq: 11 Jul 2019 15:21

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.9	77.9
61	48.6	39.8	59.8





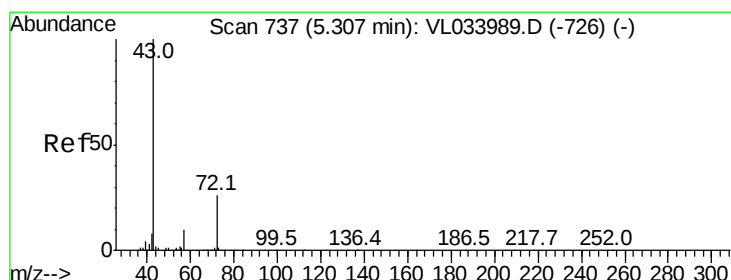
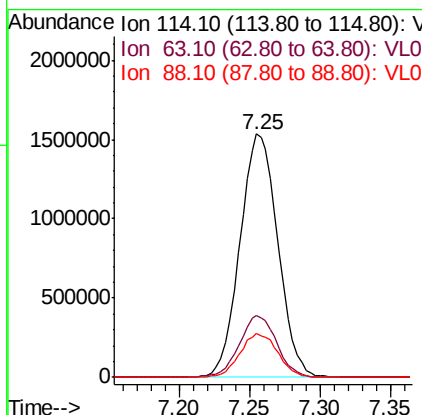
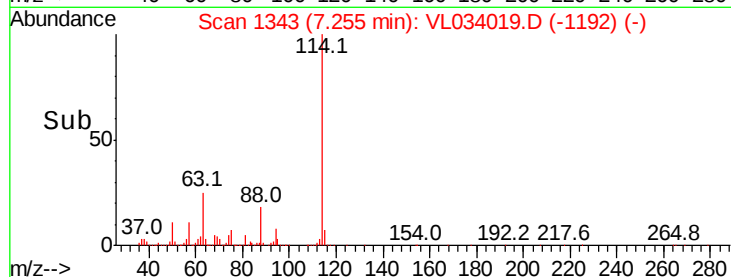
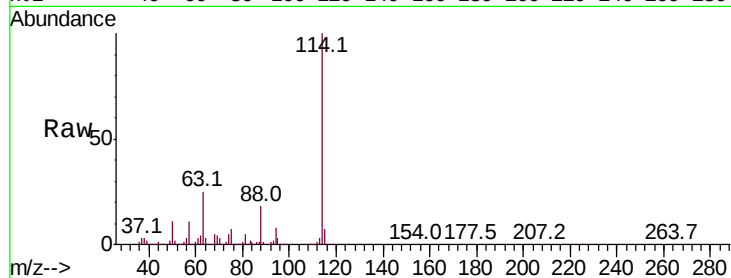
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.25 min Scan# 1343
 Delta R.T. -0.01 min
 Lab File: VL034019.D
 Acq: 11 Jul 2019 15:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0711ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.5	20.2	30.2
88	18.0	14.1	21.1

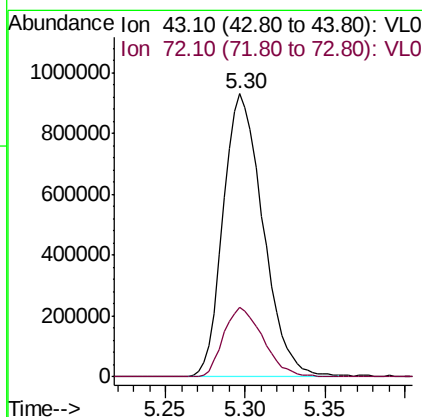
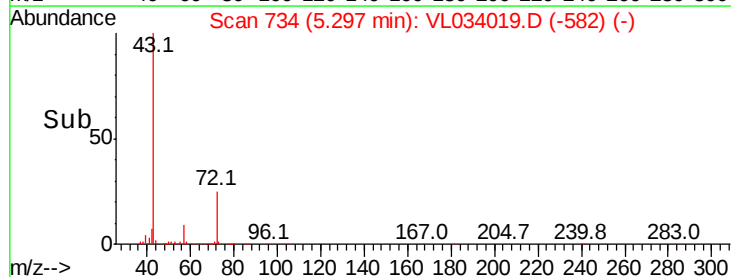
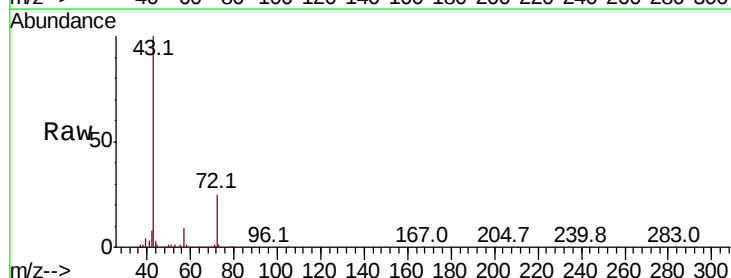
Manual Integrations
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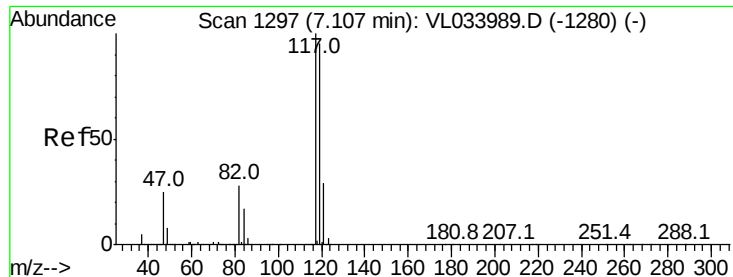
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#34
 2-Butanone
 Concen: 10.305 ppbv
 RT: 5.30 min Scan# 734
 Delta R.T. -0.01 min
 Lab File: VL034019.D
 Acq: 11 Jul 2019 15:21

Tgt Ion	Ratio	Lower	Upper
43	100		
72	24.8	19.9	29.9





#35

Carbon Tetrachloride

Concen: 9.925 ppbv

RT: 7.10 min Scan# 1294

Delta R.T. -0.01 min

Lab File: VL034019.D

Acq: 11 Jul 2019 15:21

Instrument :

MSVOA_L

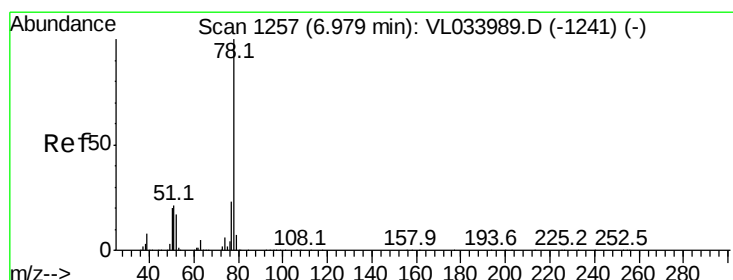
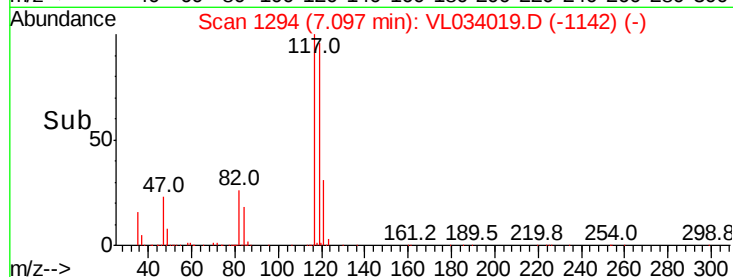
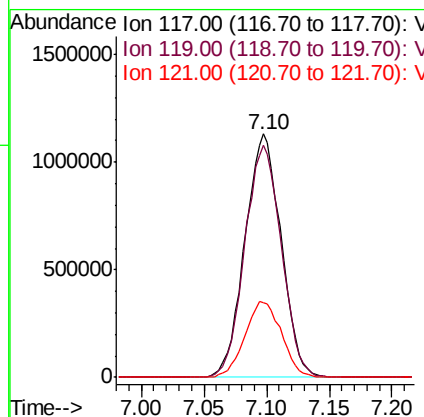
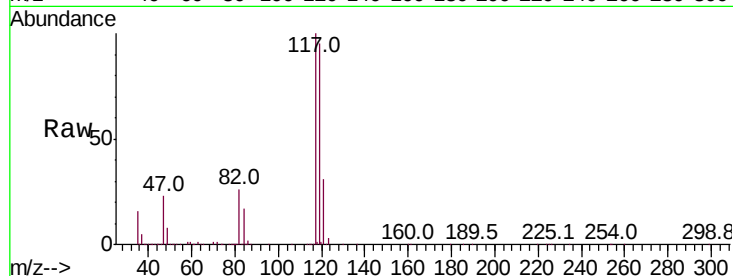
ClientSampleId :

VL0711ABS01

Tot Ion:	117	Resp:	2269923
Ion	Ratio	Lower	Upper
117	100		
119	95.1	75.8	113.6
121	30.8	23.4	35.2

Manual Integrations
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#36

Benzene

Concen: 10.856 ppbv

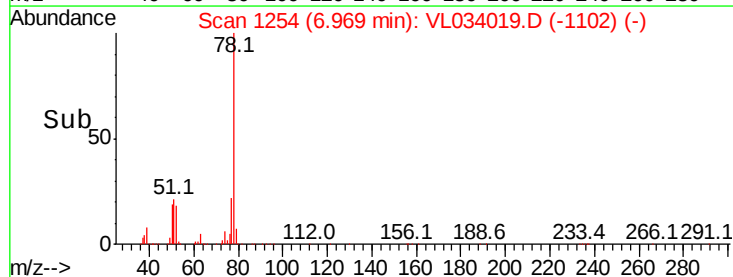
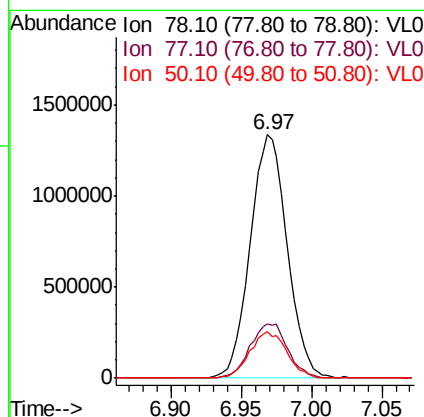
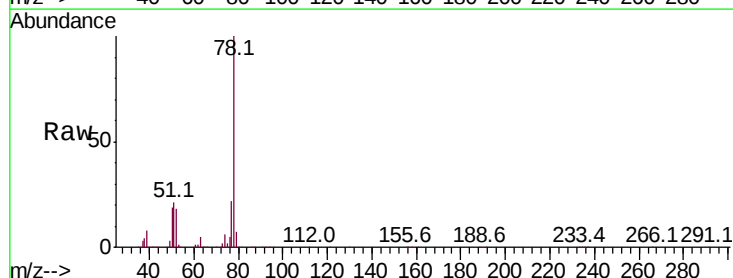
RT: 6.97 min Scan# 1254

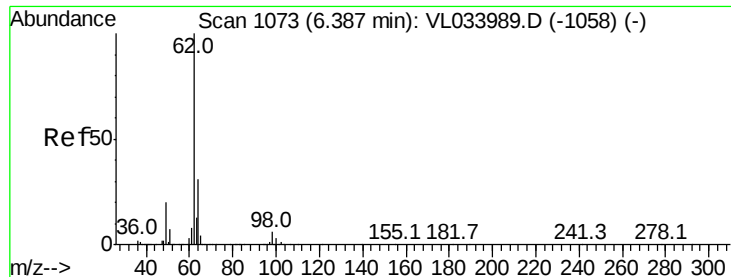
Delta R.T. -0.01 min

Lab File: VL034019.D

Acq: 11 Jul 2019 15:21

Tgt Ion:	78	Resp:	2454107
Ion	Ratio	Lower	Upper
78	100		
77	22.3	18.7	28.1
50	19.0	16.2	24.2





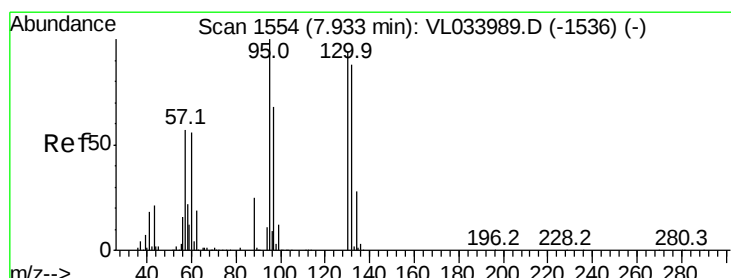
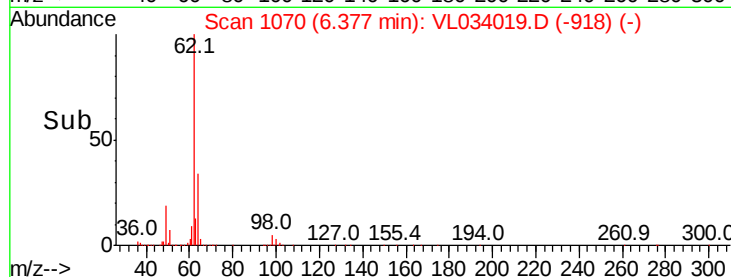
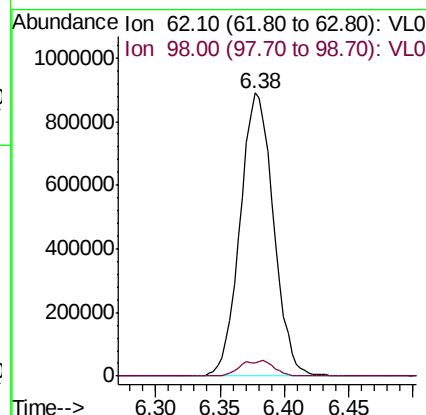
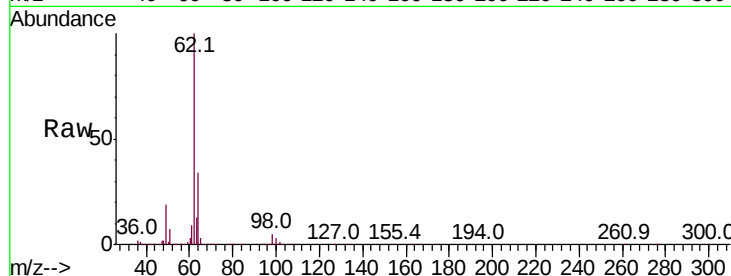
#37
 1,2-Dichloroethane
 Concen: 9.610 ppbv
 RT: 6.38 min Scan# 1070
 Delta R.T. -0.01 min
 Lab File: VL034019.D
 Acq: 11 Jul 2019 15:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0711ABS01

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.7	4.4	6.6

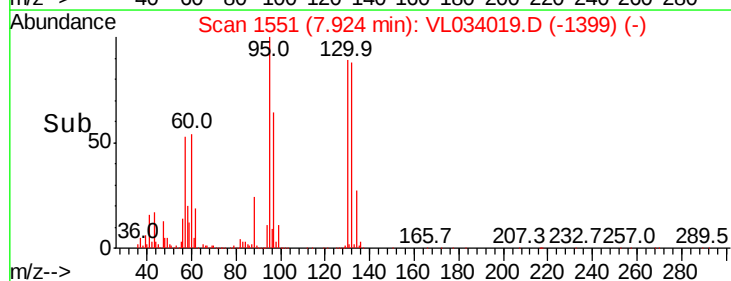
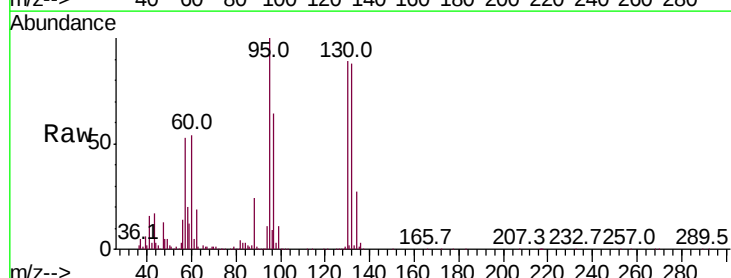
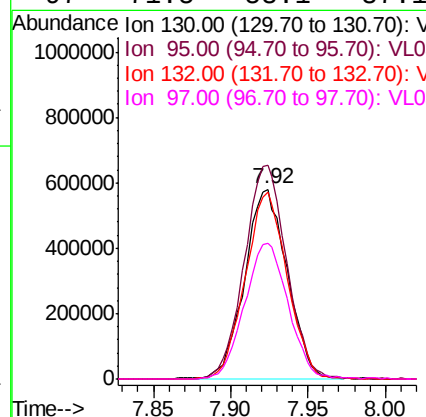
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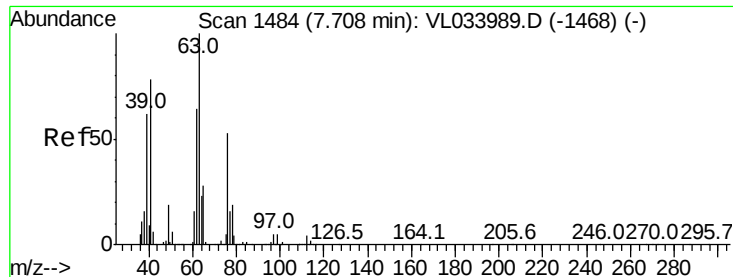
MMDadoda
 7/12/2019 10:46:54 PM



#38
 Trichloroethene
 Concen: 10.980 ppbv
 RT: 7.92 min Scan# 1551
 Delta R.T. -0.01 min
 Lab File: VL034019.D
 Acq: 11 Jul 2019 15:21

Tgt Ion	Ratio	Lower	Upper
130	100		
95	112.6	85.5	128.3
132	98.7	75.1	112.7
97	71.5	58.1	87.1





#39

1,2-Dichloropropane

Concen: 10.766 ppbv

RT: 7.70 min Scan# 1481

Delta R.T. -0.01 min

Lab File: VL034019.D

Acq: 11 Jul 2019 15:21

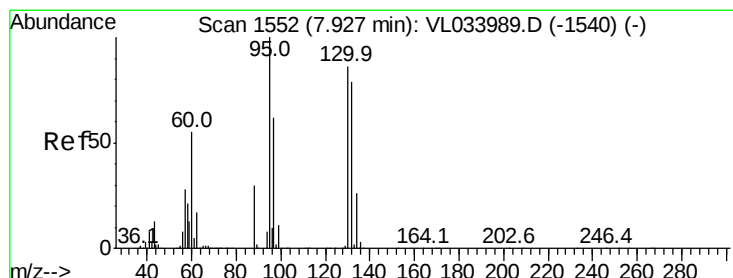
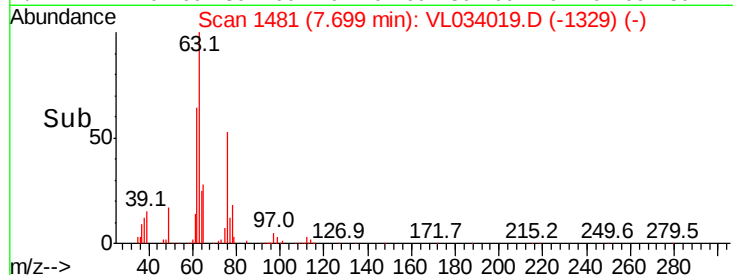
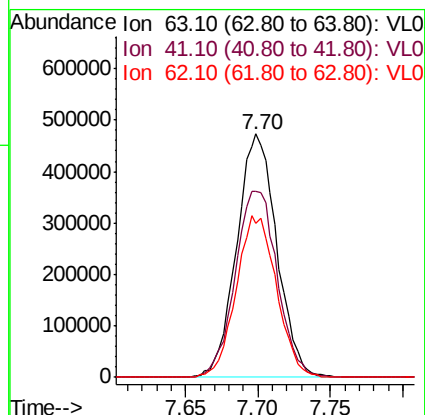
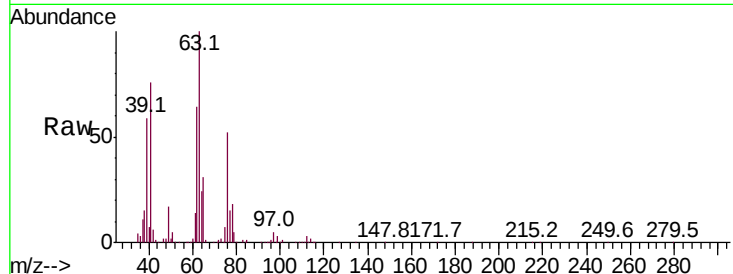
Instrument :
MSVOA_L

ClientSampleId :
VL0711ABS01

Tot Ion	Ratio	Lower	Upper
63	100		
41	76.1	62.3	93.5
62	63.3	51.4	77.2

Manual Integrations
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#40

1,4-Dioxane

Concen: 11.122 ppbv

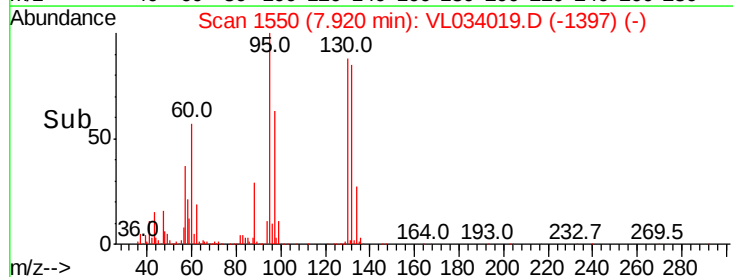
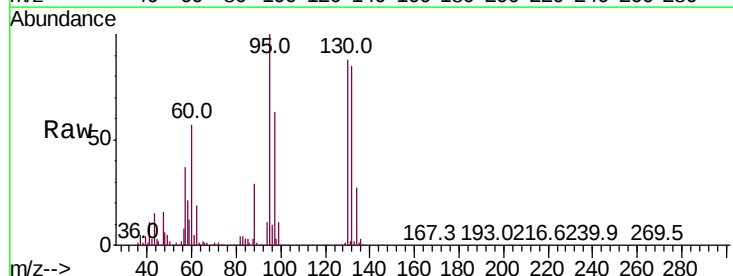
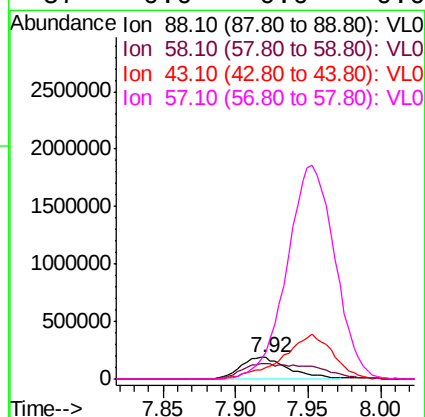
RT: 7.92 min Scan# 1550

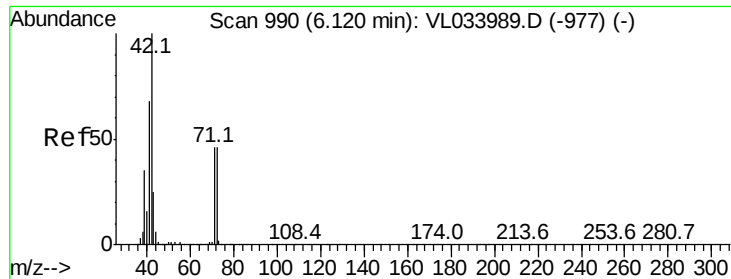
Delta R.T. -0.01 min

Lab File: VL034019.D

Acq: 11 Jul 2019 15:21

Tgt Ion	Ratio	Lower	Upper
88	100		
58	116.3	99.1	148.7
43	0.0	0.0	0.0
57	0.0	0.0	0.0





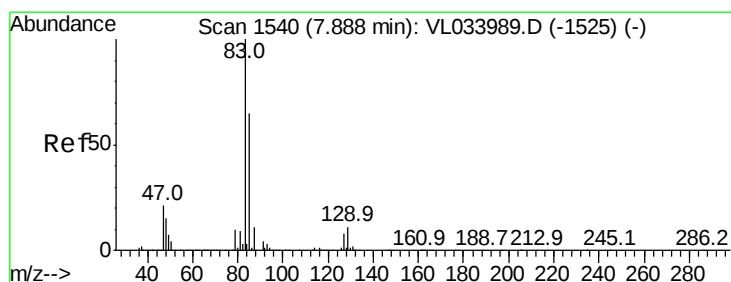
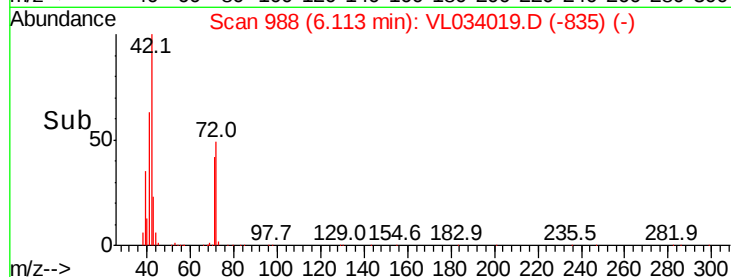
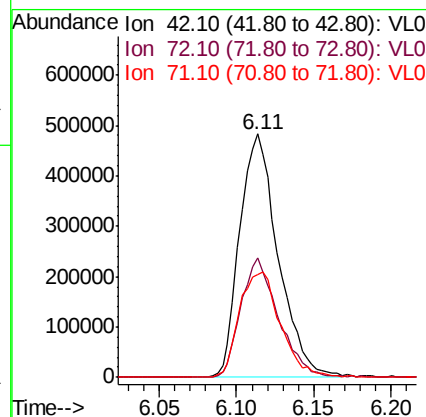
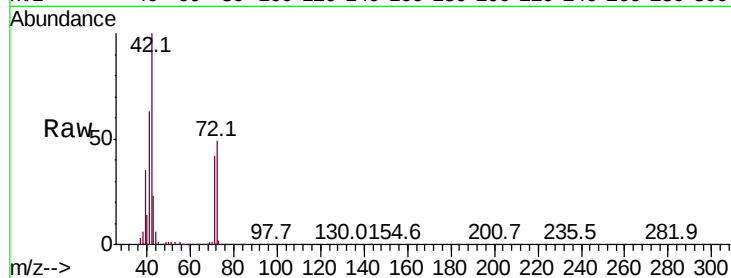
#41
Tetrahydrofuran
Concen: 11.115 ppbv
RT: 6.11 min Scan# 988
Delta R.T. -0.01 min
Lab File: VL034019.D
Acq: 11 Jul 2019 15:21

Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	48.1	37.3	55.9
71	46.3	36.2	54.2

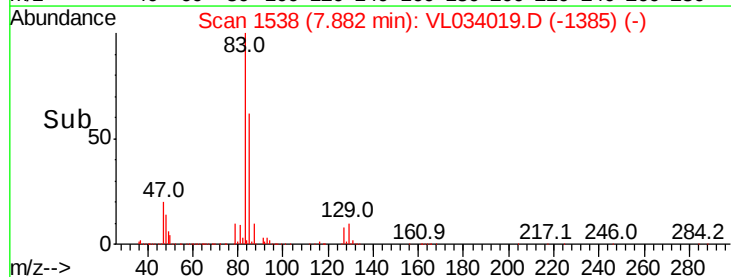
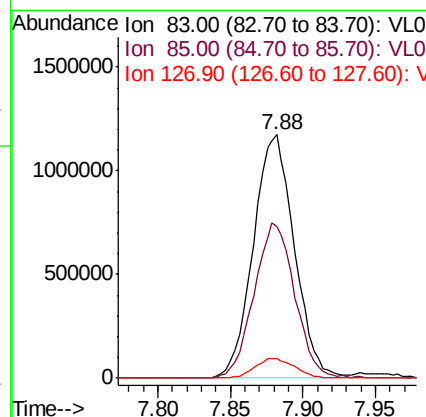
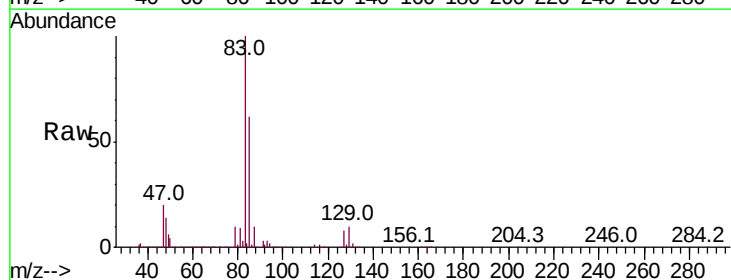
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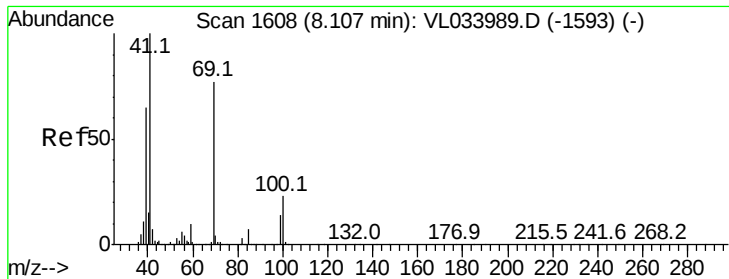
MMDadoda
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#42
Bromodichloromethane
Concen: 10.326 ppbv
RT: 7.88 min Scan# 1538
Delta R.T. -0.01 min
Lab File: VL034019.D
Acq: 11 Jul 2019 15:21

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.4	51.8	77.8
127	8.1	6.5	9.7





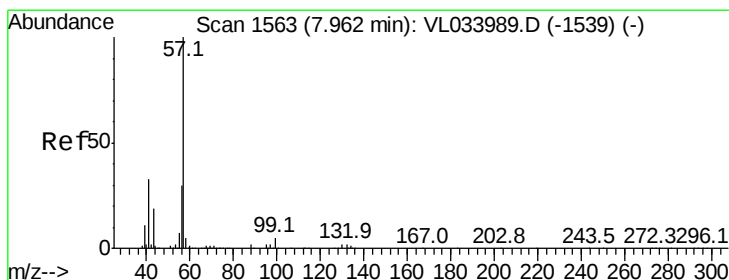
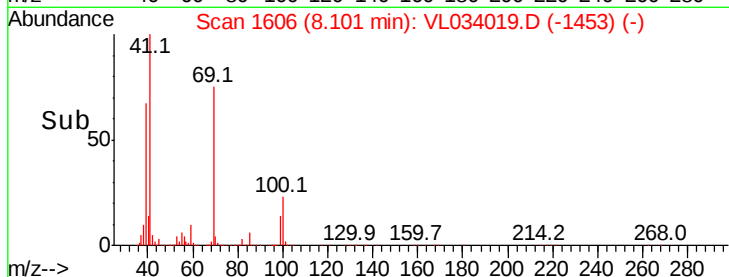
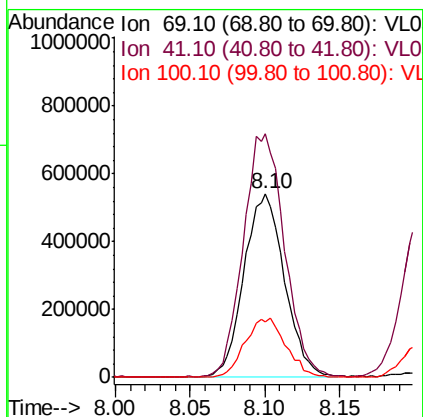
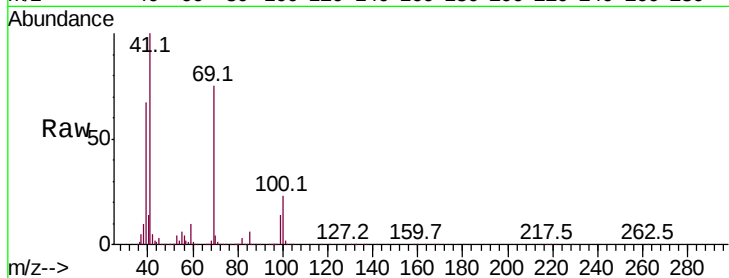
#43
Methvl Methacrvlate
Concen: 11.919 ppbv
RT: 8.10 min Scan# 1606
Delta R.T. -0.01 min
Lab File: VL034019.D
Acq: 11 Jul 2019 15:21

Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS01

Tot Ion: 69 Resp: 1022337
Ion Ratio Lower Upper
69 100
41 135.4 109.1 163.7
100 32.8 25.3 37.9

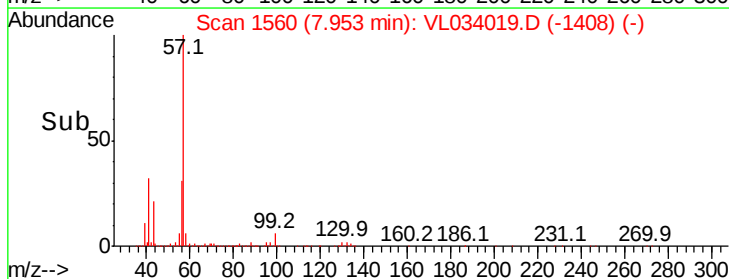
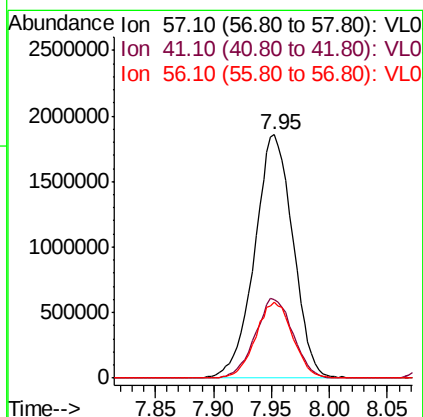
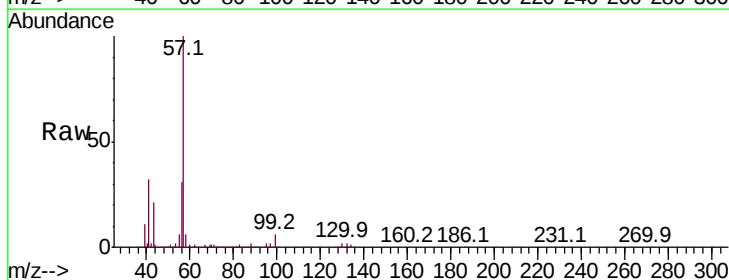
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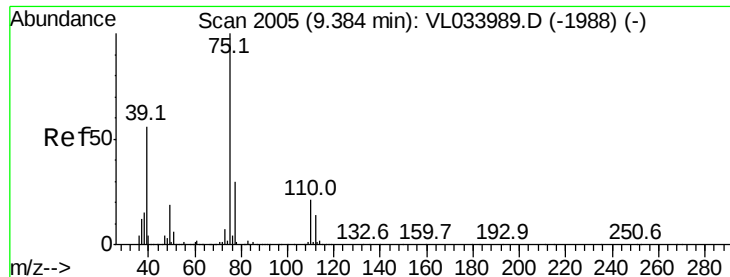
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 10.964 ppbv
RT: 7.95 min Scan# 1560
Delta R.T. -0.01 min
Lab File: VL034019.D
Acq: 11 Jul 2019 15:21

Tgt Ion: 57 Resp: 4278347
Ion Ratio Lower Upper
57 100
41 32.3 26.1 39.1
56 30.1 24.4 36.6





#45

t-1,3-Dichloropropene

Concen: 12.366 ppbv

RT: 9.37 min Scan# 2002

Delta R.T. -0.01 min

Lab File: VL034019.D

Acq: 11 Jul 2019 15:21

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS01

Tot Ion: 75 Resp: 1386986

Ion Ratio Lower Upper

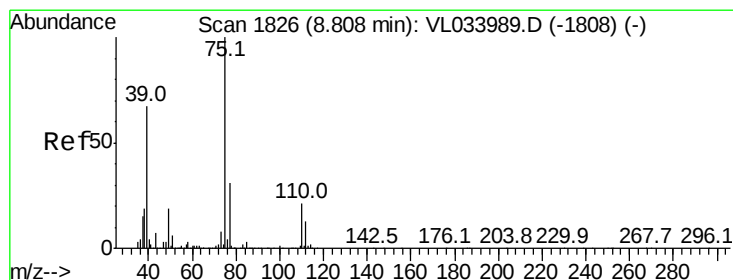
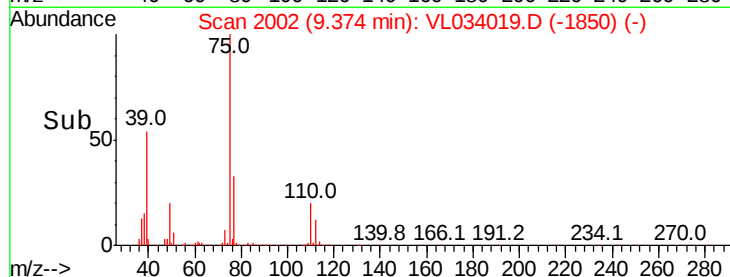
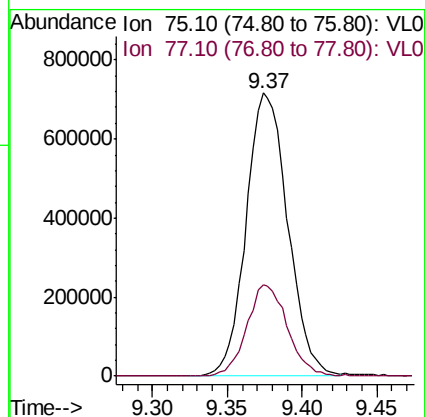
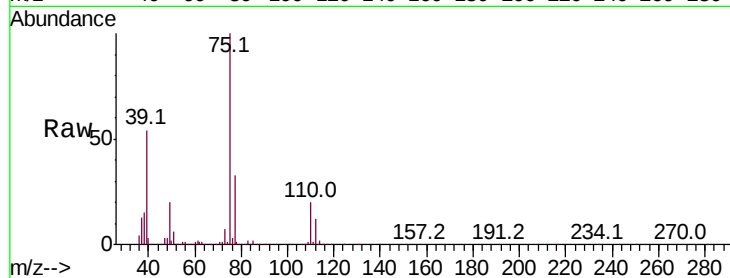
75 100

77 32.5 24.3 36.5

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#46

cis-1,3-Dichloropropene

Concen: 12.073 ppbv

RT: 8.80 min Scan# 1823

Delta R.T. -0.01 min

Lab File: VL034019.D

Acq: 11 Jul 2019 15:21

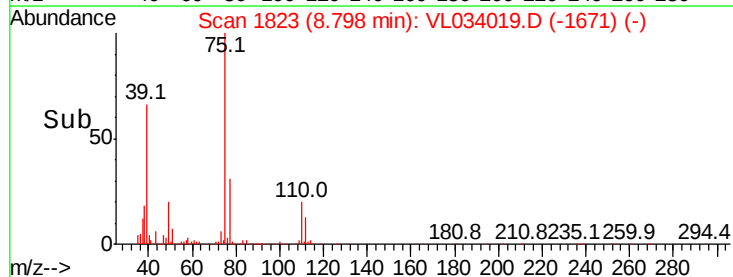
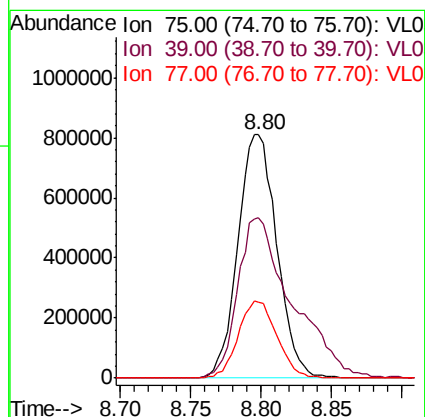
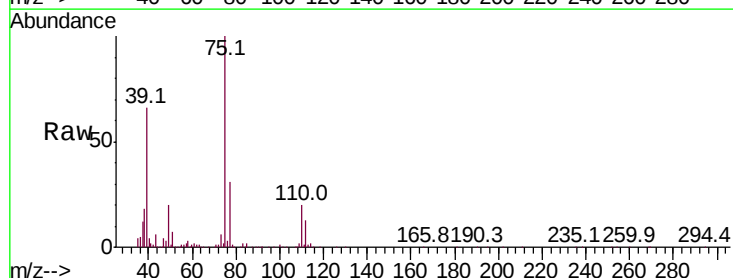
Tgt Ion: 75 Resp: 1568242

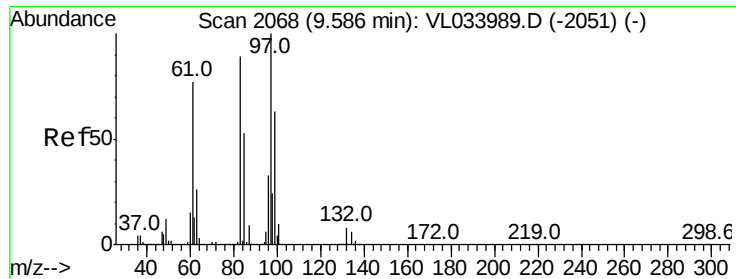
Ion Ratio Lower Upper

75 100

39 65.9 53.8 80.6

77 31.3 24.5 36.7





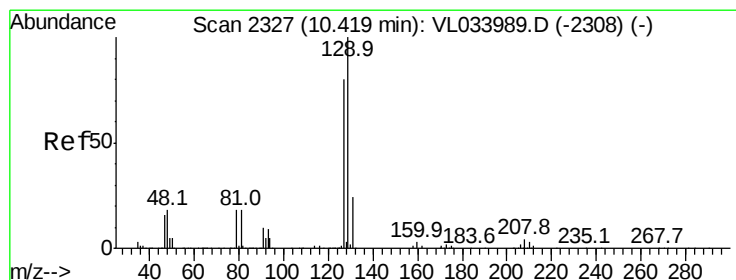
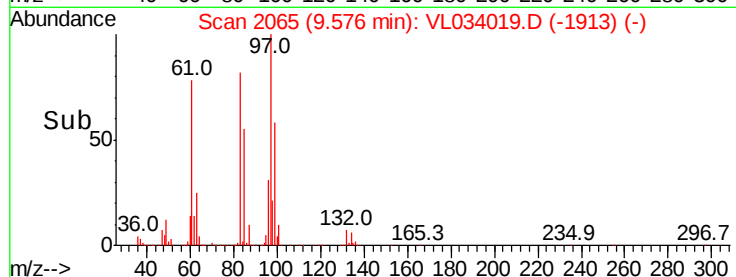
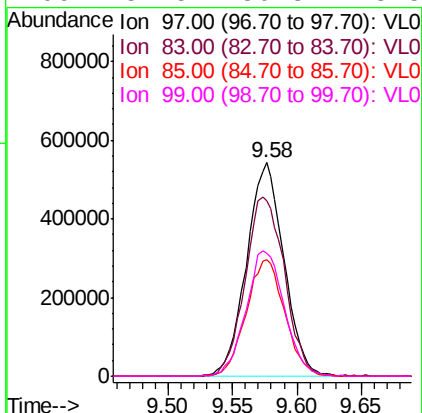
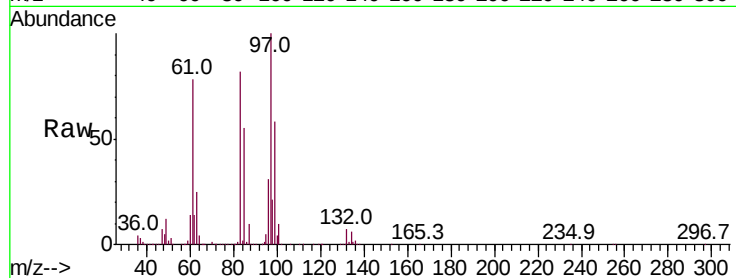
#47
 1,1,2-Trichloroethane
 Concen: 10.358 ppbv
 RT: 9.58 min Scan# 2065
 Delta R.T. -0.01 min
 Lab File: VL034019.D
 Acq: 11 Jul 2019 15:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0711ABS01

Tot Ion	Ratio	Lower	Upper
97	100		
83	82.0	71.1	106.7
85	54.6	42.6	64.0
99	57.5	50.3	75.5

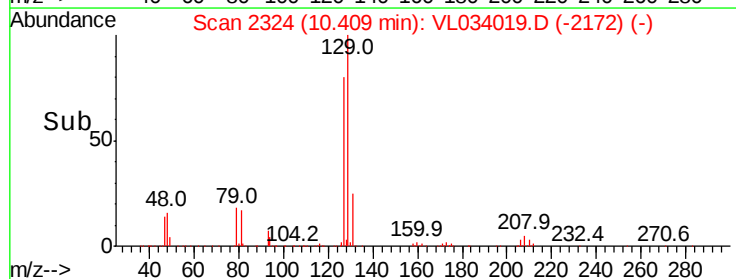
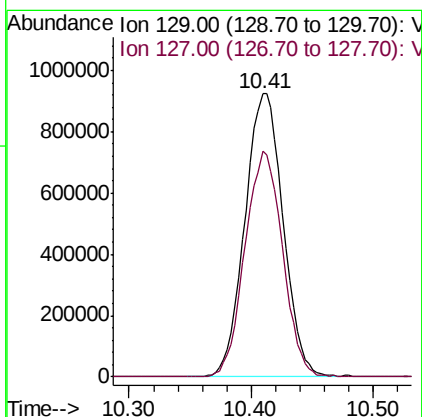
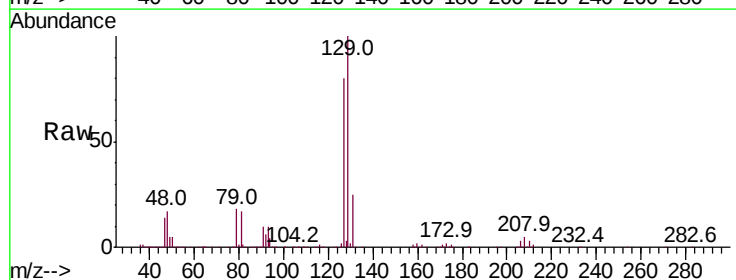
Manual Integrations
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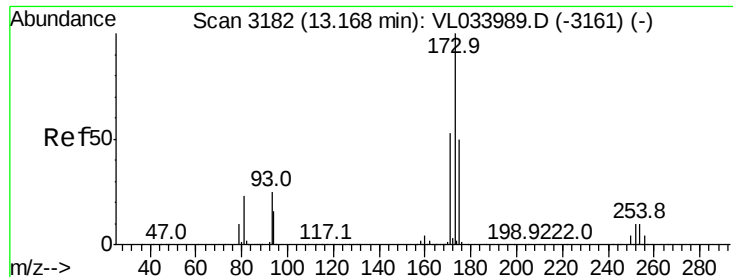
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#48
 Dibromochloromethane
 Concen: 9.910 ppbv
 RT: 10.41 min Scan# 2324
 Delta R.T. -0.01 min
 Lab File: VL034019.D
 Acq: 11 Jul 2019 15:21

Tgt Ion	Ratio	Lower	Upper
129	100		
127	78.5	39.1	117.3





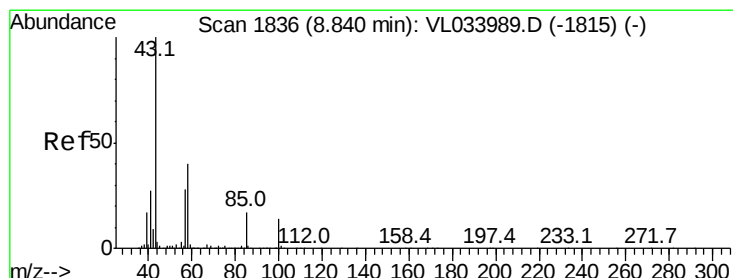
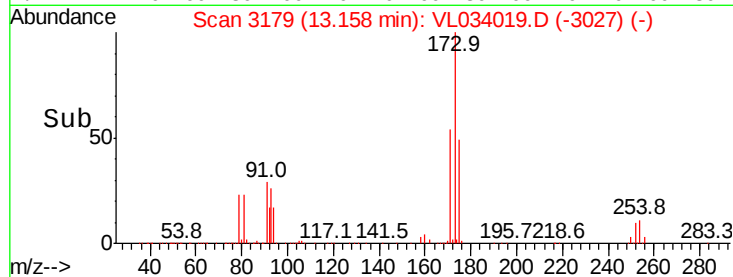
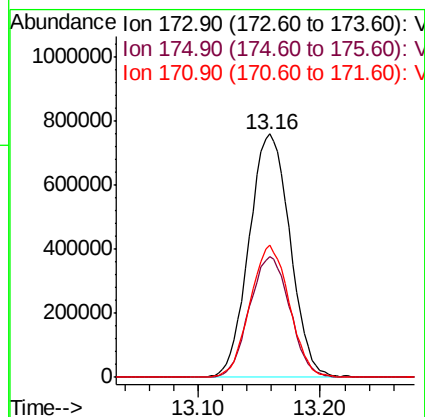
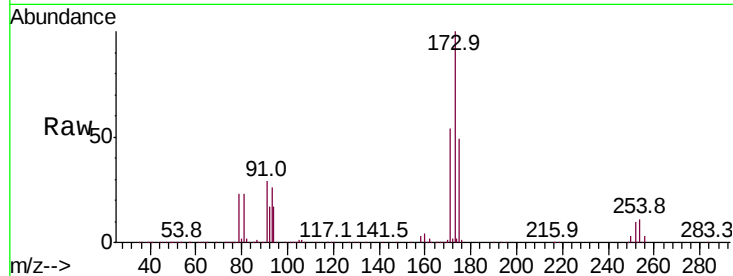
#49
Bromoform
Concen: 10.240 ppbv
RT: 13.16 min Scan# 3179
Delta R.T. -0.01 min
Lab File: VL034019.D
Acq: 11 Jul 2019 15:21

Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.1	39.3	58.9
171	52.2	41.4	62.0

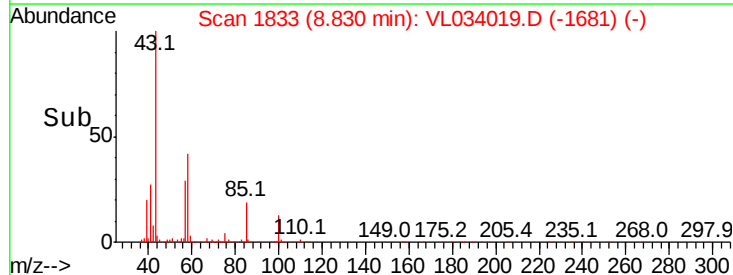
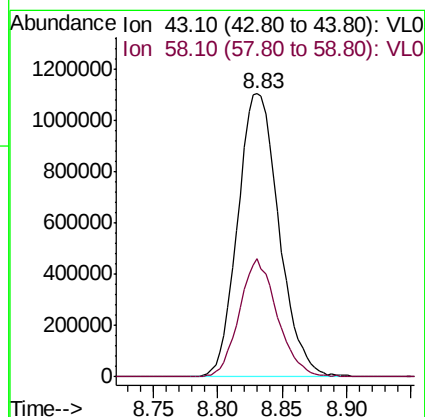
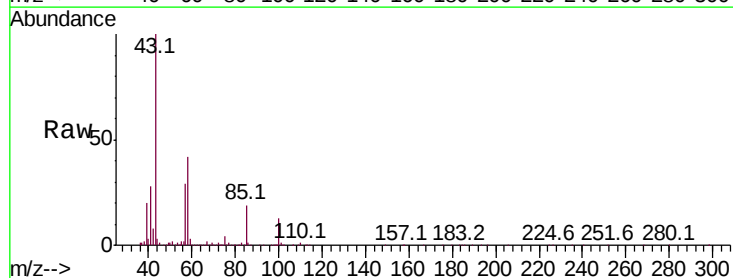
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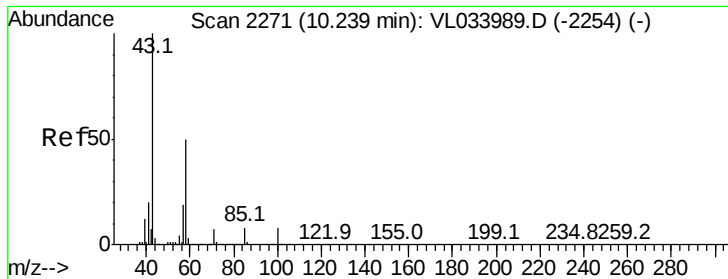
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#50
4-Methyl-2-Pentanone
Concen: 10.825 ppbv
RT: 8.83 min Scan# 1833
Delta R.T. -0.01 min
Lab File: VL034019.D
Acq: 11 Jul 2019 15:21

Tgt Ion	Ratio	Lower	Upper
43	100		
58	38.6	30.3	45.5





#51

2-Hexanone

Concen: 11.080 ppbv

RT: 10.23 min Scan# 2269

Delta R.T. -0.01 min

Lab File: VL034019.D

Acq: 11 Jul 2019 15:21

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS01

Tot Ion: 43 Resp: 2027534

Ion Ratio Lower Upper

43 100

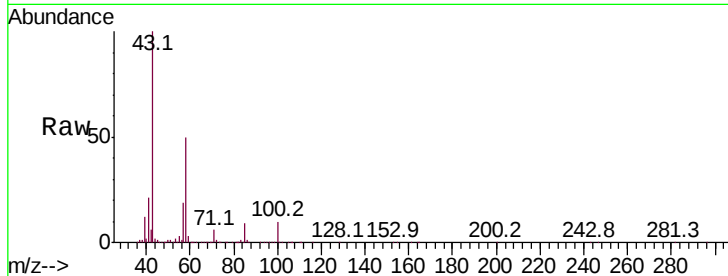
58 51.1 41.0 61.4

98 0.3 0.2 0.2#

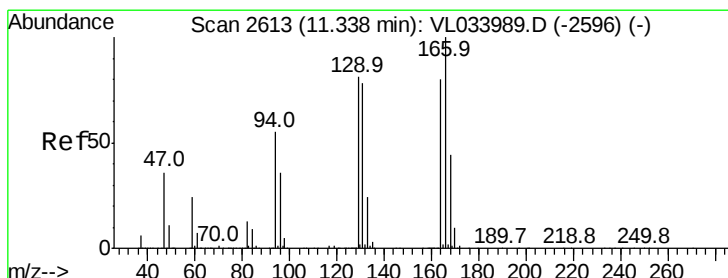
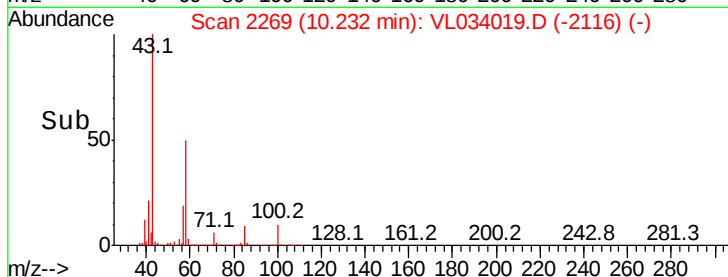
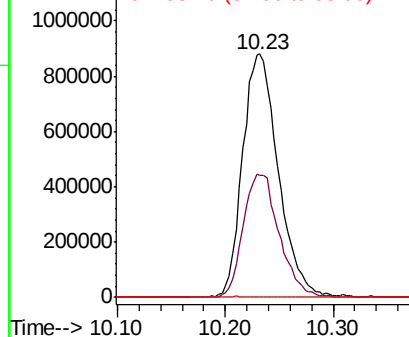
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 10.735 ppbv

RT: 11.33 min Scan# 2611

Delta R.T. -0.01 min

Lab File: VL034019.D

Acq: 11 Jul 2019 15:21

Tgt Ion:164 Resp: 1044454

Ion Ratio Lower Upper

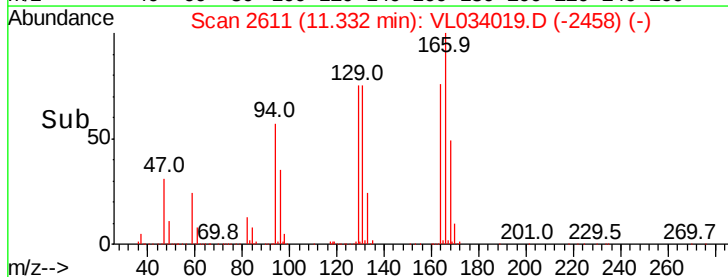
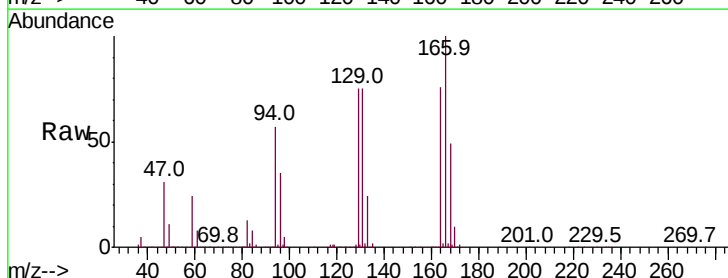
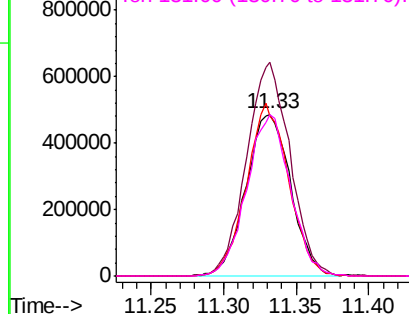
164 100

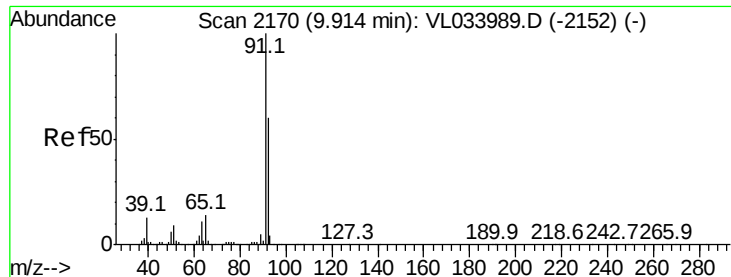
166 132.1 100.2 150.2

129 99.0 81.0 121.6

131 99.5 78.3 117.5

Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 11.984 ppbv

RT: 9.91 min Scan# 2168

Delta R.T. -0.01 min

Lab File: VL034019.D

Acq: 11 Jul 2019 15:21

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS01

Tot Ion: 91 Resp: 3101041

Ion Ratio Lower Upper

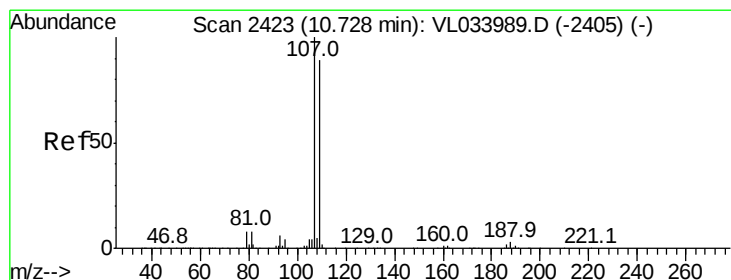
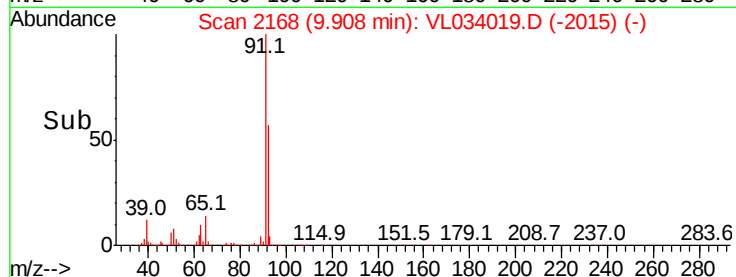
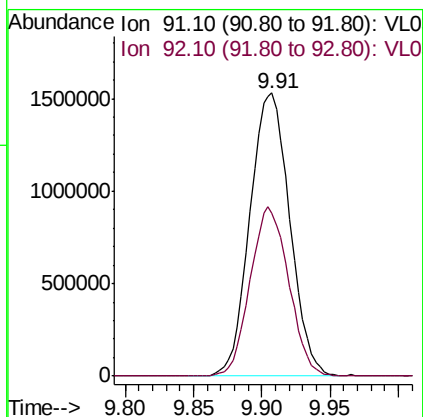
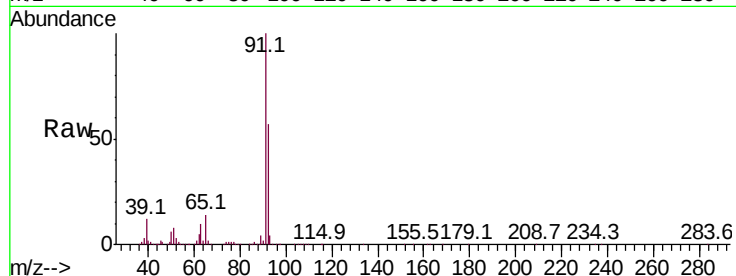
91 100

92 57.9 47.7 71.5

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7/12/2019 10:46:54 PM



#54

1,2-Dibromoethane

Concen: 10.859 ppbv

RT: 10.72 min Scan# 2420

Delta R.T. -0.01 min

Lab File: VL034019.D

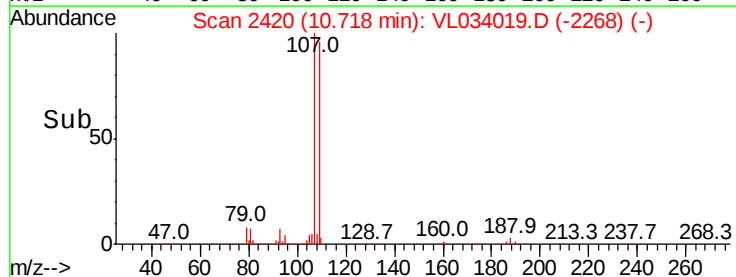
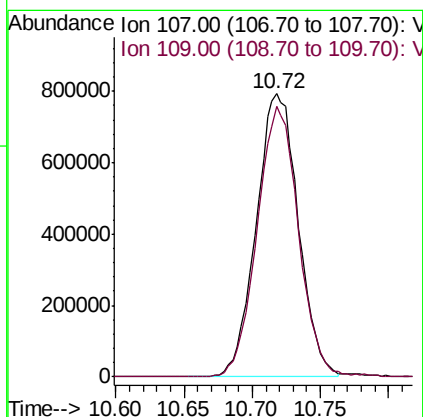
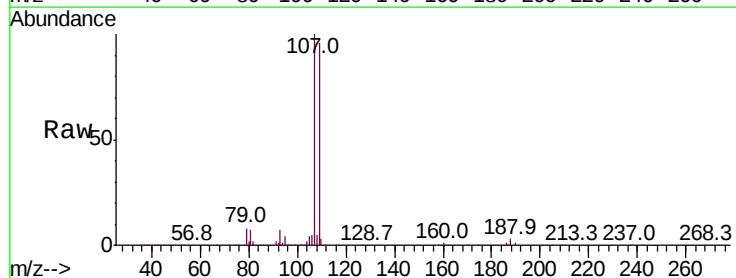
Acq: 11 Jul 2019 15:21

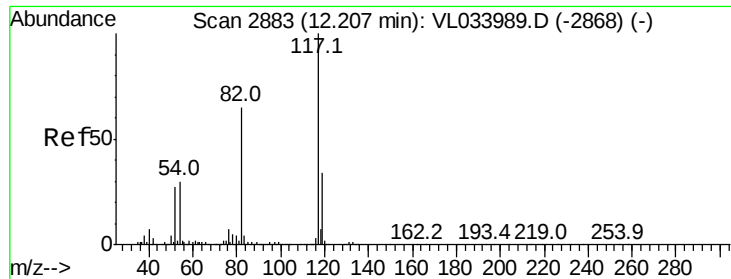
Tgt Ion: 107 Resp: 1693770

Ion Ratio Lower Upper

107 100

109 95.6 71.5 107.3





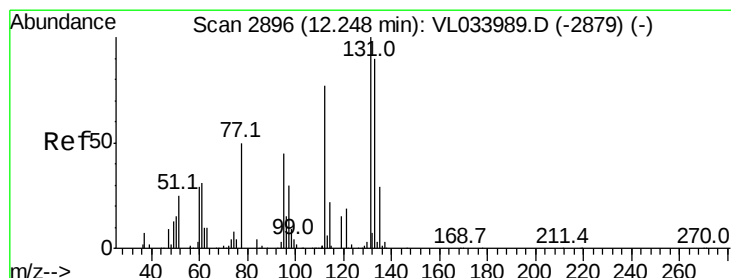
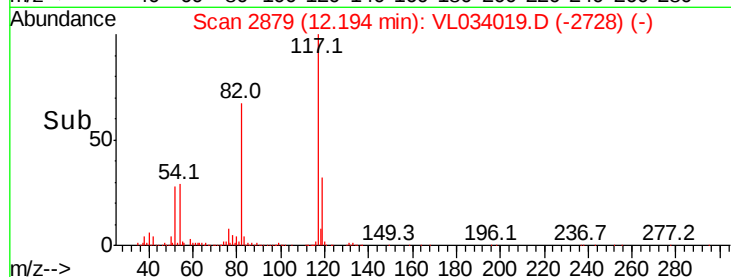
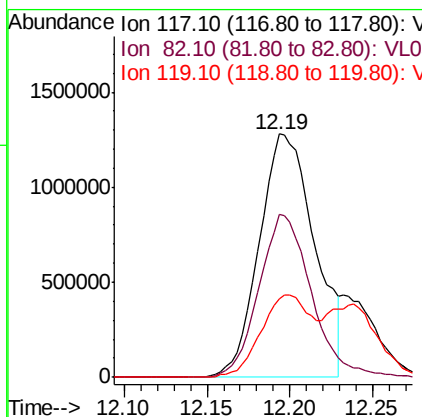
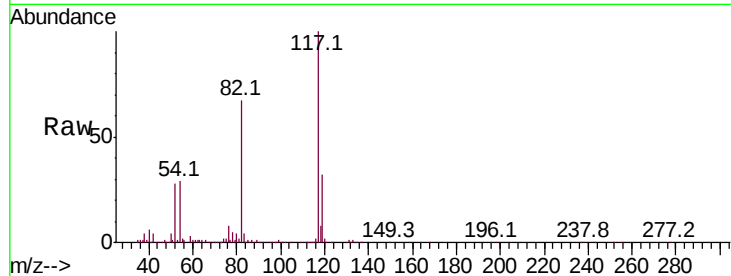
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.19 min Scan# 2879
Delta R.T. -0.01 min
Lab File: VL034019.D
Acq: 11 Jul 2019 15:21

Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS01

Tot Ion:117 Resp: 2981749
Ion Ratio Lower Upper
117 100
82 63.9 50.8 76.2
119 30.3 24.0 36.0

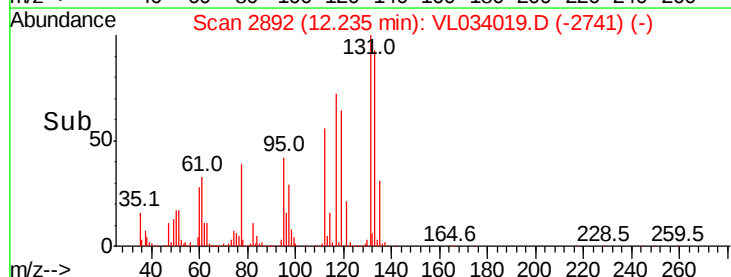
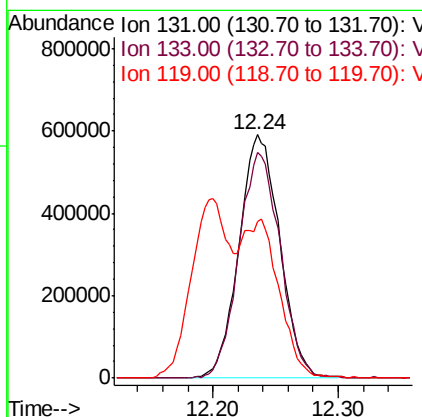
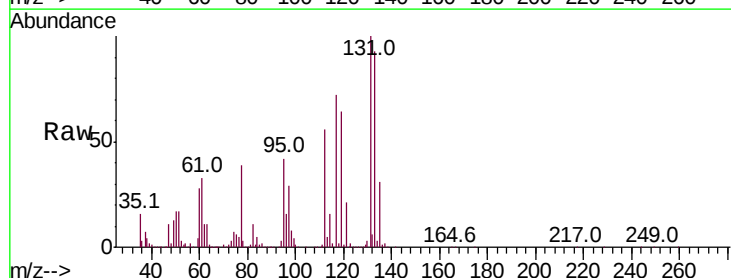
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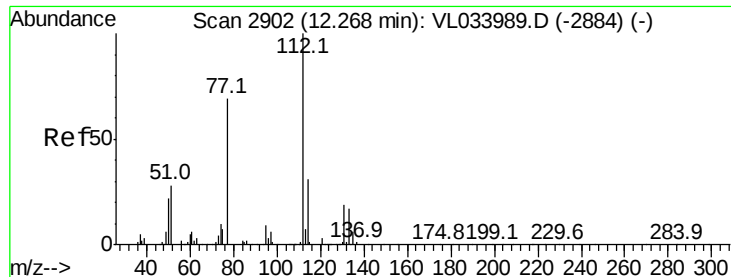
MMDadoda
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#56
1,1,1,2-Tetrachloroethane
Concen: 9.987 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL034019.D
Acq: 11 Jul 2019 15:21

Tgt Ion:131 Resp: 1330935
Ion Ratio Lower Upper
131 100
133 94.9 76.2 114.2
119 58.5 43.1 64.7





#57

Chlorobenzene

Concen: 10.037 ppbv

RT: 12.26 min Scan# 2899

Delta R.T. -0.01 min

Lab File: VL034019.D

Acq: 11 Jul 2019 15:21

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS01

Tot Ion: 112 Resp: 2382668

Ion Ratio Lower Upper

112 100

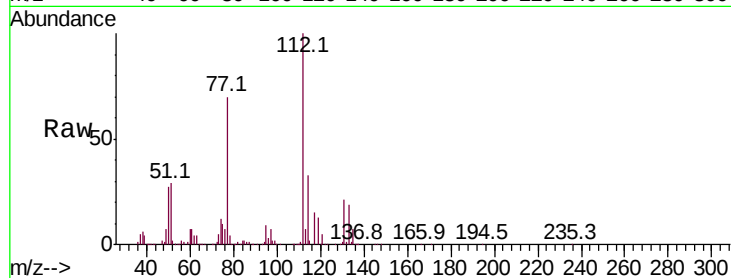
77 69.8 55.9 83.9

114 33.1 27.6 33.8

Manual Integrations
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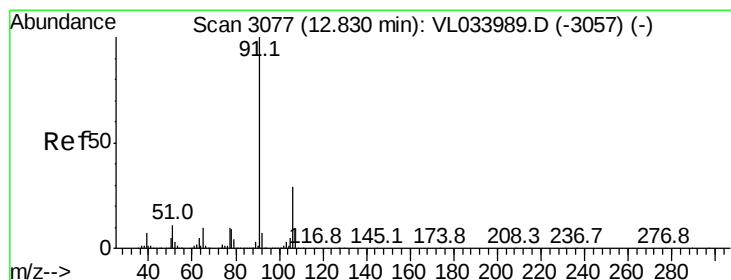
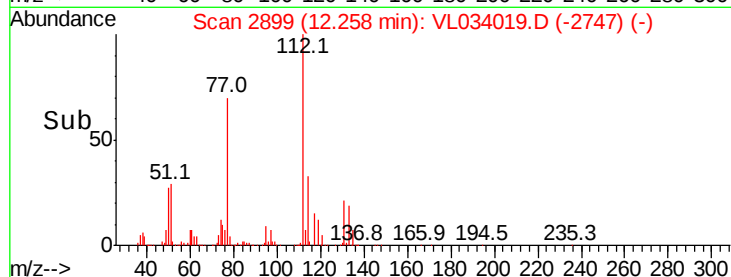
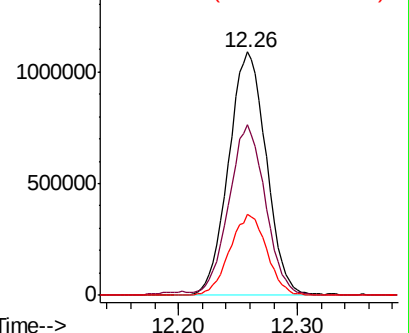
7/12/2019 10:46:54 PM



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: 11.319 ppbv

RT: 12.82 min Scan# 3075

Delta R.T. -0.01 min

Lab File: VL034019.D

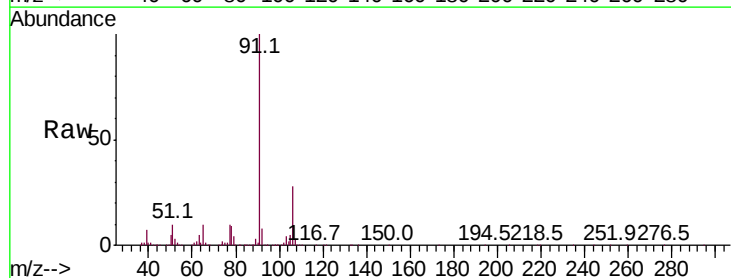
Acq: 11 Jul 2019 15:21

Tgt Ion: 91 Resp: 4058572

Ion Ratio Lower Upper

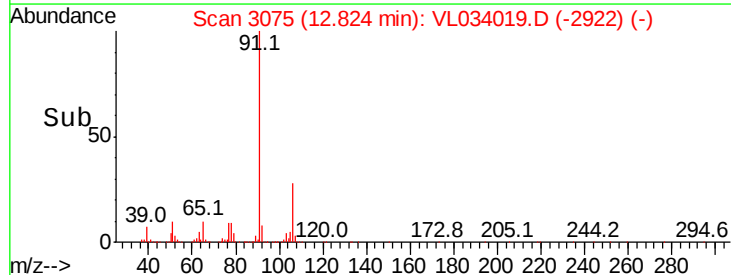
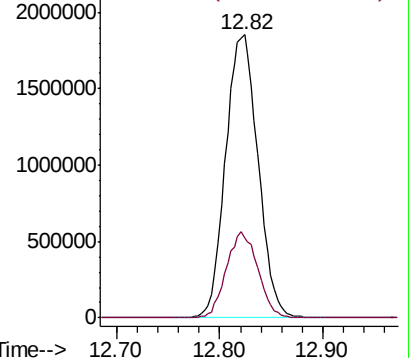
91 100

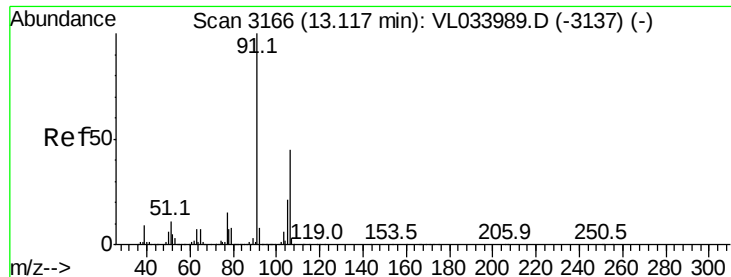
106 28.4 23.3 34.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





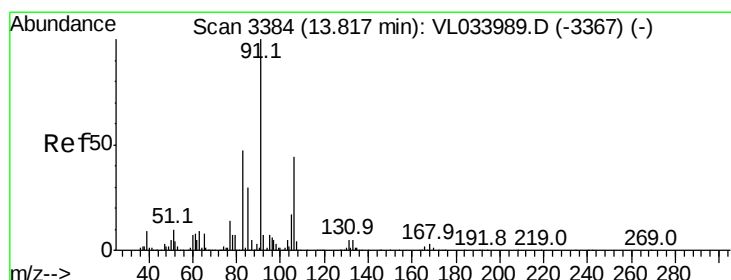
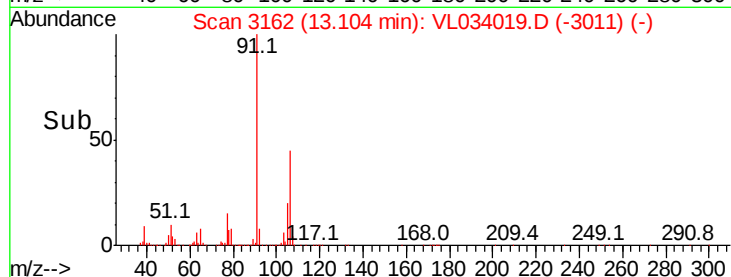
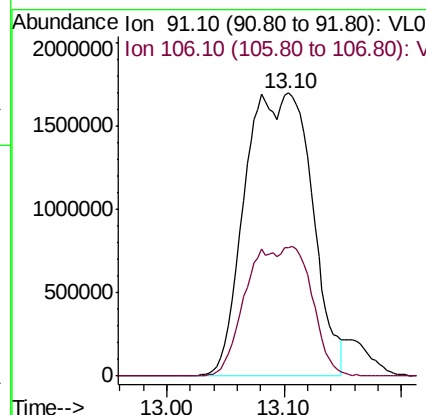
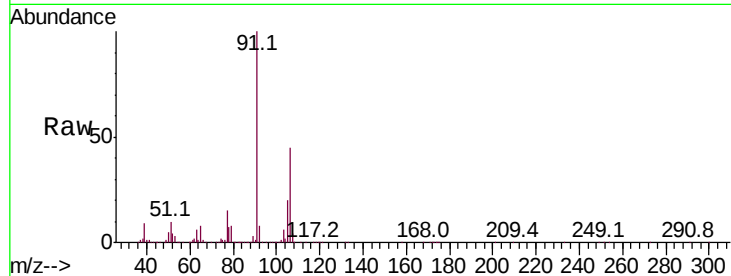
#59
m/p-Xylene
Concen: 20.797 ppbv m
RT: 13.10 min Scan# 3162
Delta R.T. -0.01 min
Lab File: VL034019.D
Acq: 11 Jul 2019 15:21

Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS01

Tot Ion: 91 Resp: 6752054
Ion Ratio Lower Upper
91 100
106 44.6 35.7 53.5

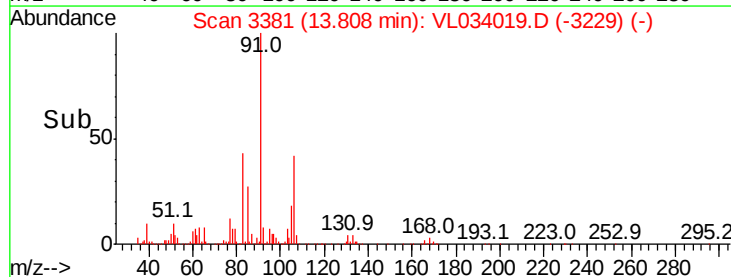
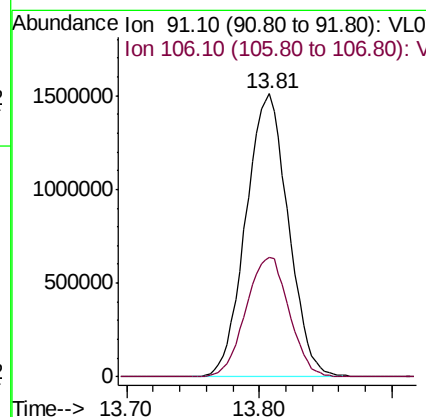
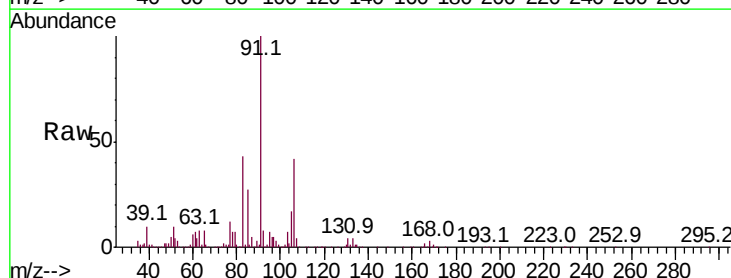
Manual Integrations
APPROVED

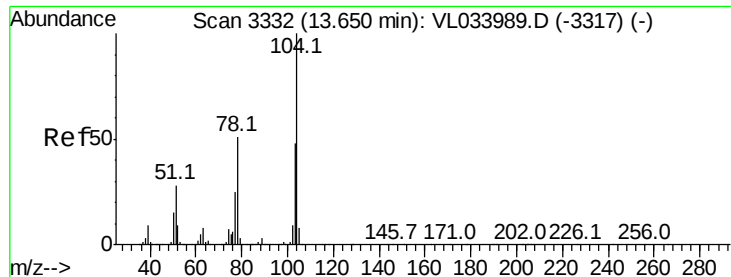
MMDadoda
7/12/2019 10:46:54 PM



#60
o-Xylene
Concen: 10.317 ppbv
RT: 13.81 min Scan# 3381
Delta R.T. -0.01 min
Lab File: VL034019.D
Acq: 11 Jul 2019 15:21

Tgt Ion: 91 Resp: 3350730
Ion Ratio Lower Upper
91 100
106 43.3 21.9 65.7





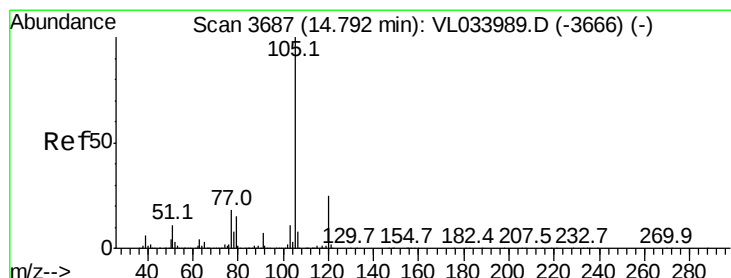
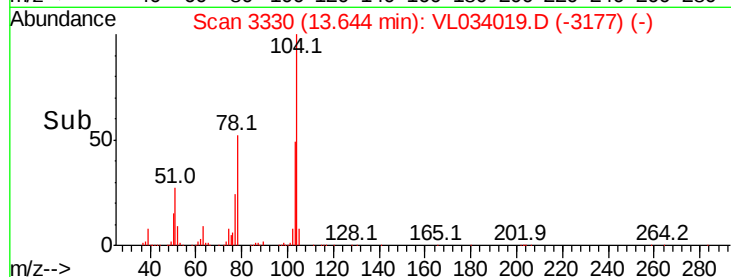
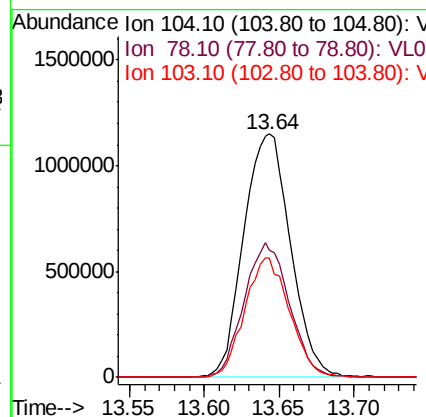
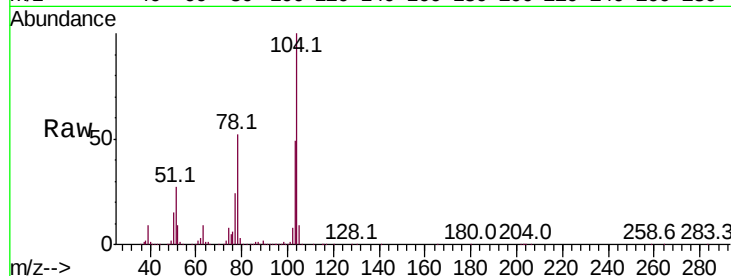
#61
Stvrene
Concen: 11.607 ppbv
RT: 13.64 min Scan# 3330
Delta R.T. -0.01 min
Lab File: VL034019.D
Acq: 11 Jul 2019 15:21

Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS01

Tot Ion	Ratio	Lower	Upper
104	100		
78	53.8	43.9	65.9
103	47.6	38.1	57.1

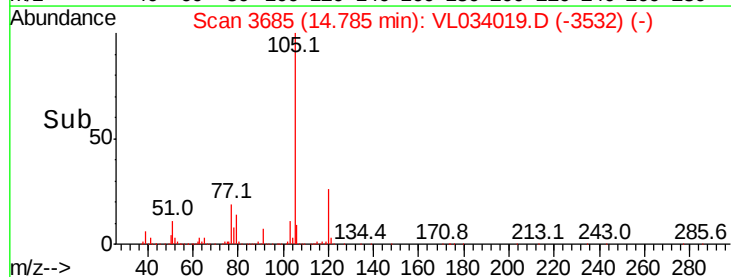
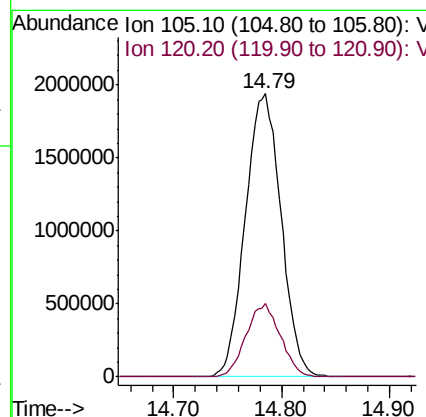
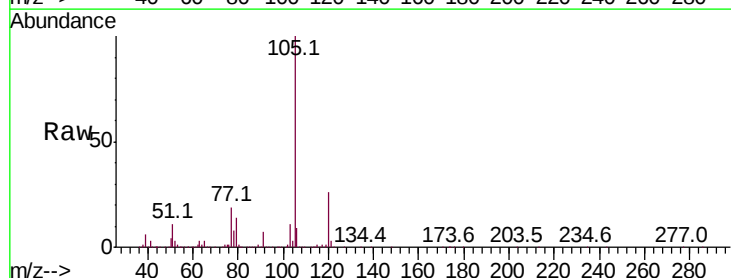
Manual Integrations
APPROVED

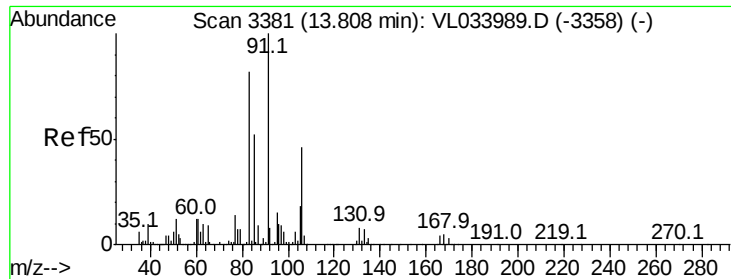
MMDadoda
7/12/2019 10:46:54 PM



#62
Isopropylbenzene
Concen: 8.977 ppbv
RT: 14.79 min Scan# 3685
Delta R.T. -0.01 min
Lab File: VL034019.D
Acq: 11 Jul 2019 15:21

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.9	20.4	30.6





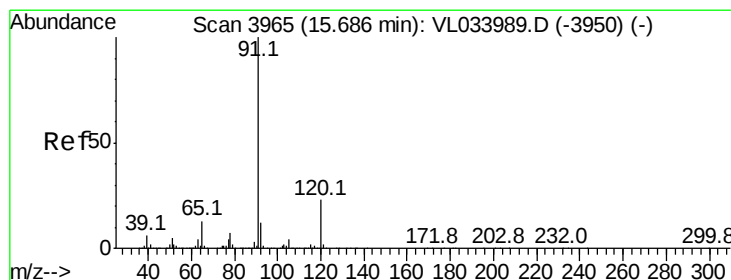
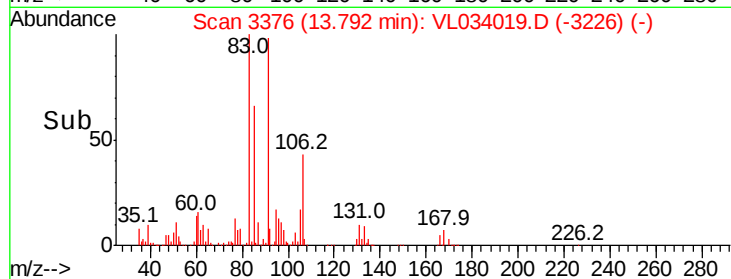
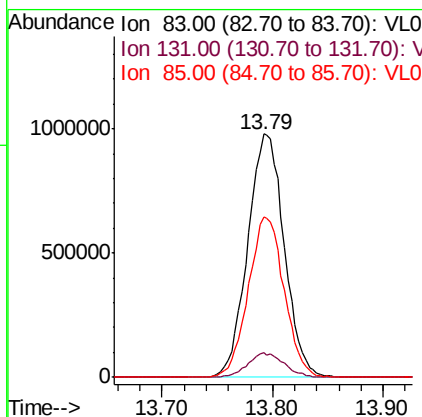
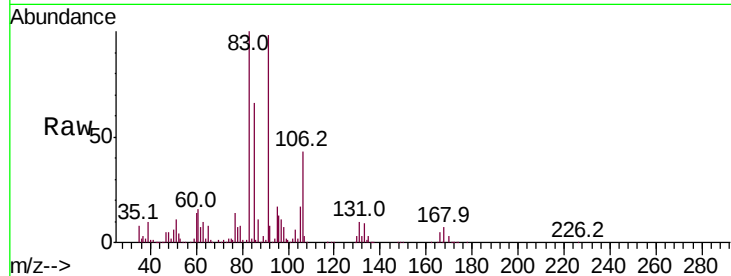
#63
 1,1,2,2-Tetrachloroethane
 Concen: 8.914 ppbv
 RT: 13.79 min Scan# 3376
 Delta R.T. -0.02 min
 Lab File: VL034019.D
 Acq: 11 Jul 2019 15:21

Instrument :
 MSVOA_L
 ClientSampled :
 VL0711ABS01

Tot Ion: 83 Resp: 2241041
 Ion Ratio Lower Upper
 83 100
 131 10.1 5.0 14.9
 85 65.2 32.8 98.3

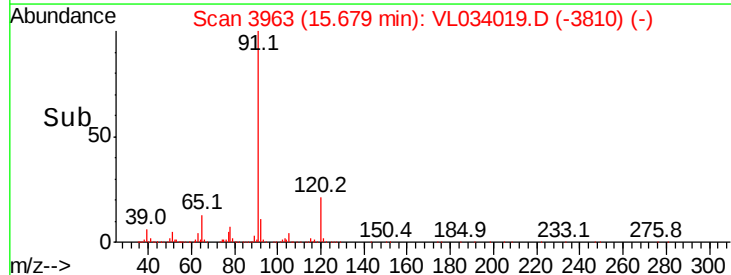
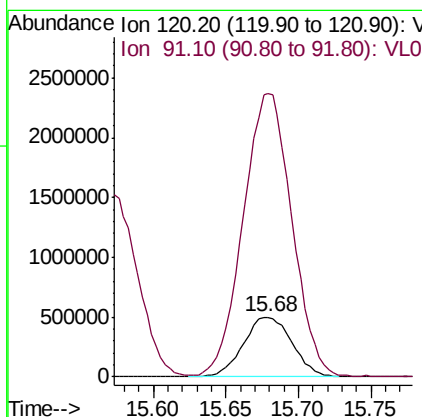
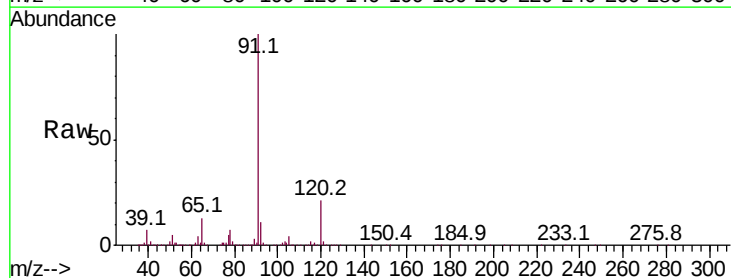
Manual Integrations
 APPROVED

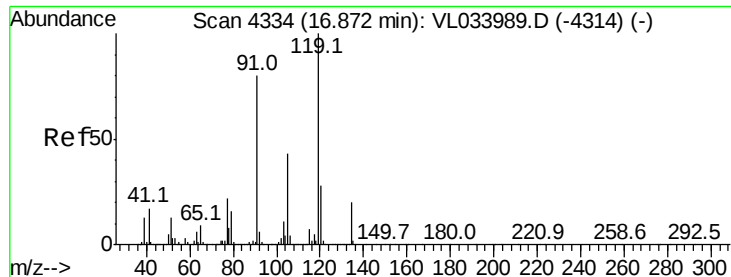
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 7/12/2019 10:46:54 PM



#64
 n-propylbenzene
 Concen: 8.936 ppbv
 RT: 15.68 min Scan# 3963
 Delta R.T. -0.01 min
 Lab File: VL034019.D
 Acq: 11 Jul 2019 15:21

Tgt Ion:120 Resp: 1156988
 Ion Ratio Lower Upper
 120 100
 91 481.2 386.6 579.8





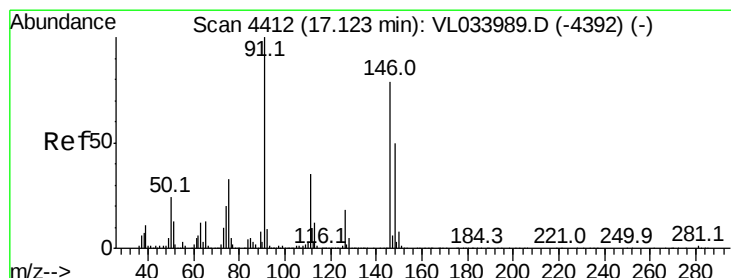
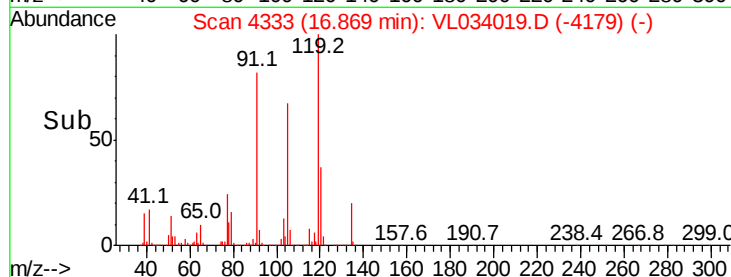
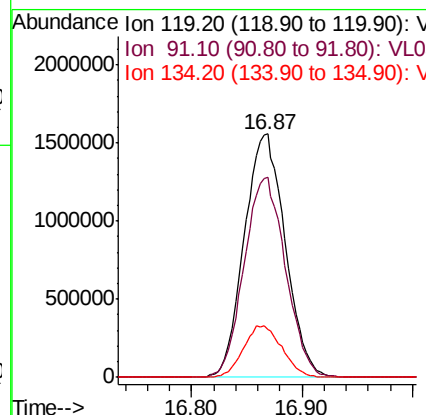
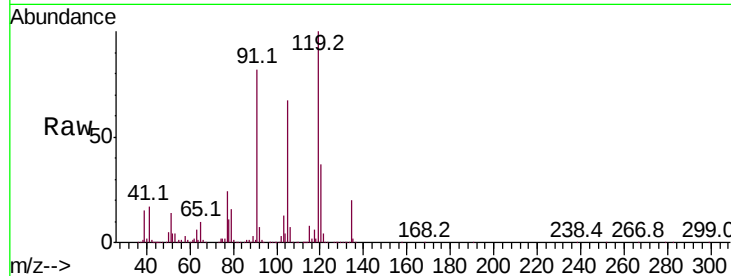
#65
tert-Butylbenzene
Concen: 9.402 ppbv
RT: 16.87 min Scan# 4333
Delta R.T. -0.00 min
Lab File: VL034019.D
Acq: 11 Jul 2019 15:21

Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
91	83.4	67.0	100.6
134	20.2	15.8	23.6

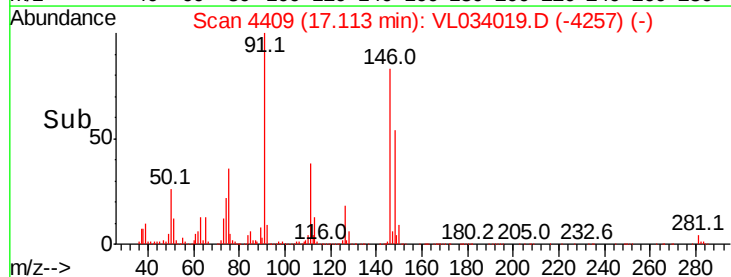
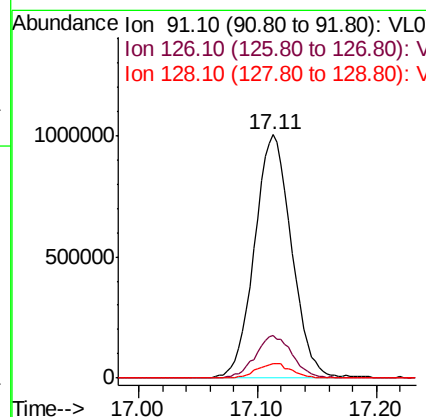
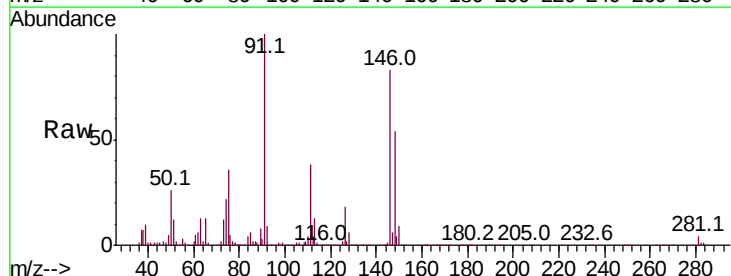
Manual Integrations
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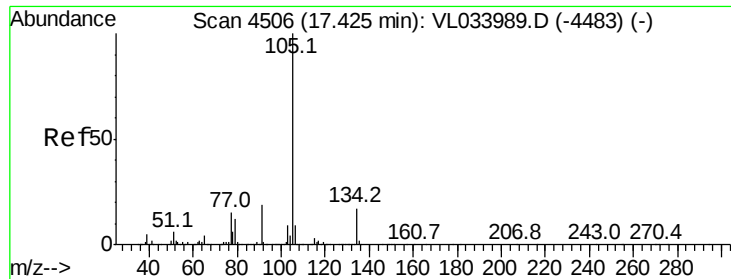
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#66
Benzyl Chloride
Concen: 9.922 ppbv
RT: 17.11 min Scan# 4409
Delta R.T. -0.01 min
Lab File: VL034019.D
Acq: 11 Jul 2019 15:21

Tgt Ion	Ratio	Lower	Upper
91	100		
126	17.5	13.9	20.9
128	5.7	4.6	7.0





#67

sec-Butylbenzene

Concen: 9.468 ppbv

RT: 17.42 min Scan# 4504

Delta R.T. -0.01 min

Lab File: VL034019.D

Acq: 11 Jul 2019 15:21

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS01

Tot Ion:105 Resp: 5642597

Ion Ratio Lower Upper

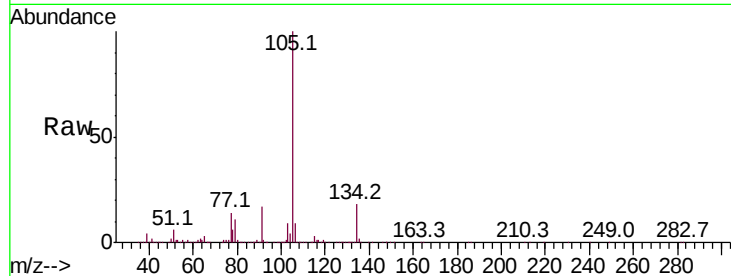
105 100

134 18.0 14.7 22.1

Manual Integrations
APPROVED

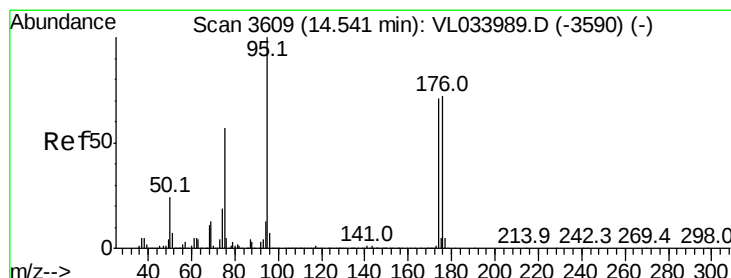
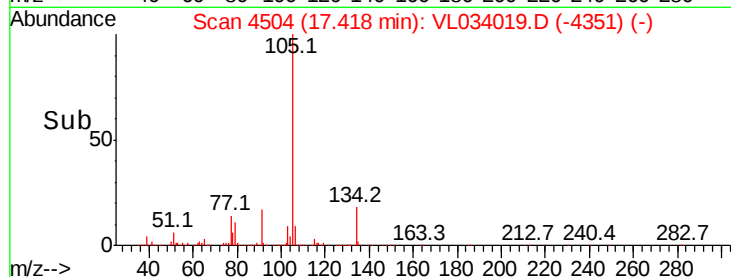
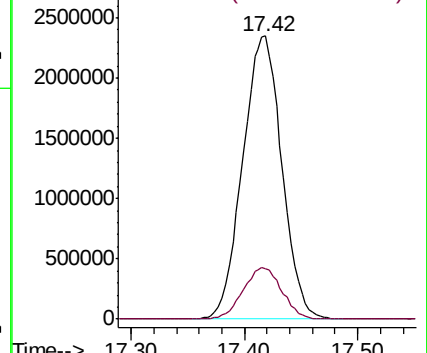
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 8.902 ppbv

RT: 14.53 min Scan# 3606

Delta R.T. -0.01 min

Lab File: VL034019.D

Acq: 11 Jul 2019 15:21

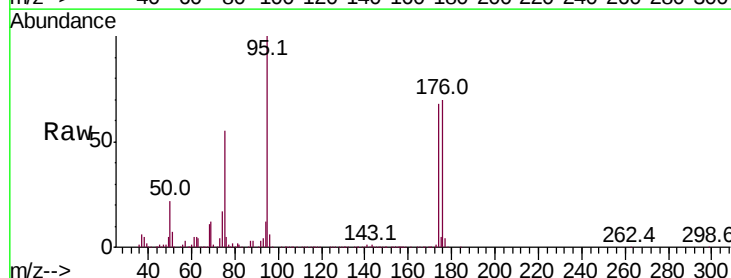
Tgt Ion: 95 Resp: 2263962

Ion Ratio Lower Upper

95 100

174 73.1 60.5 90.7

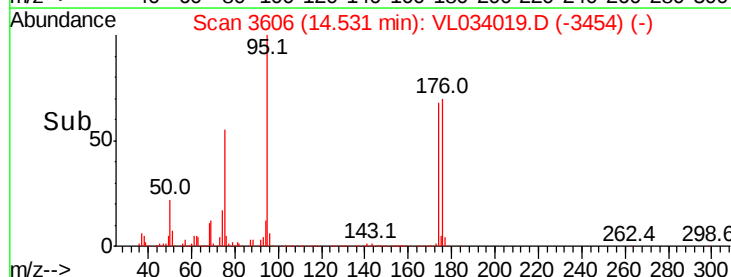
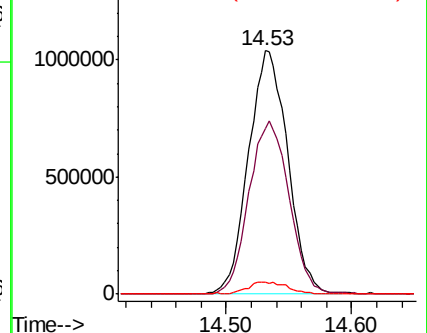
175 5.1 4.0 6.0

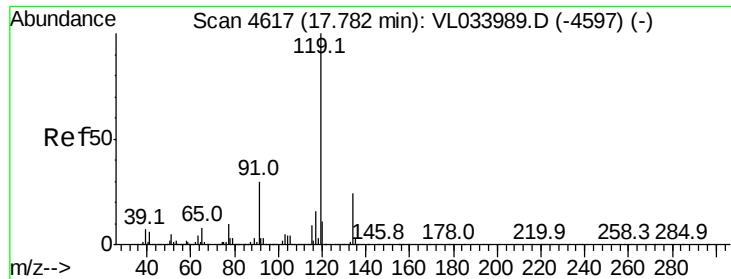


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





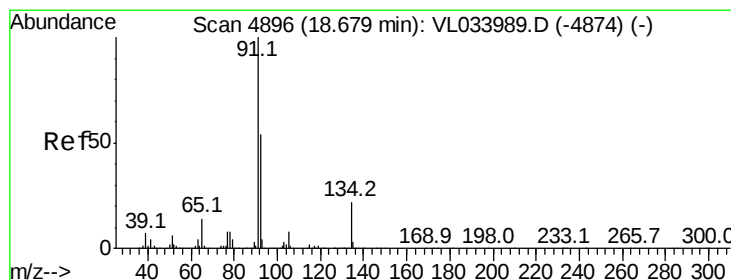
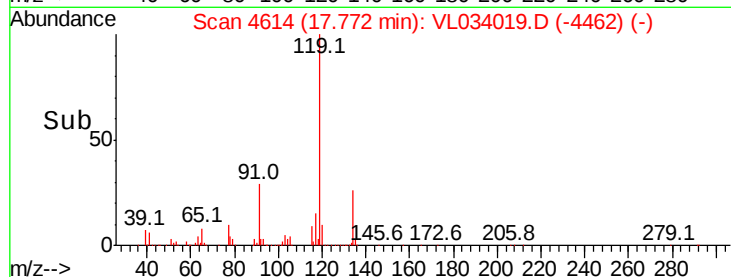
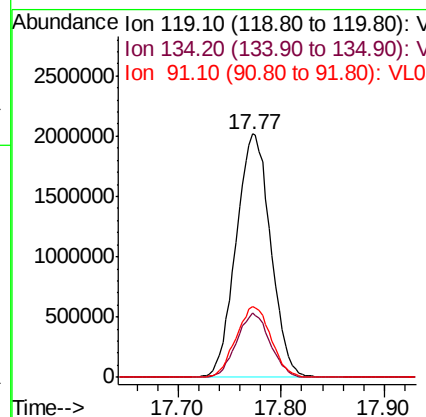
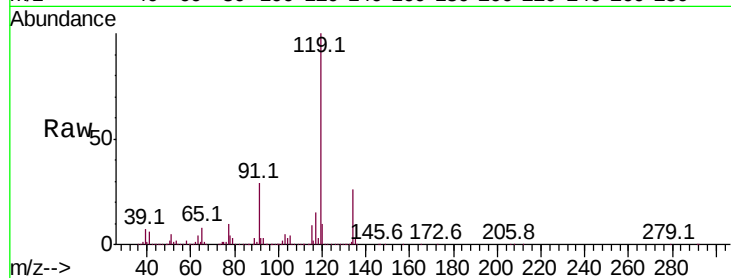
#69
 p-Isopropyltoluene
 Concen: 9.573 ppbv
 RT: 17.77 min Scan# 4614
 Delta R.T. -0.01 min
 Lab File: VL034019.D
 Acq: 11 Jul 2019 15:21

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0711ABS01

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.5	20.1	30.1
91	29.3	23.6	35.4

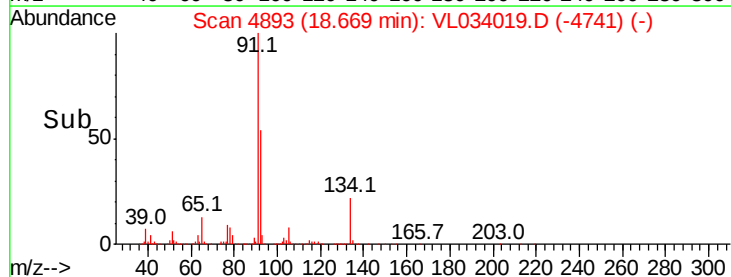
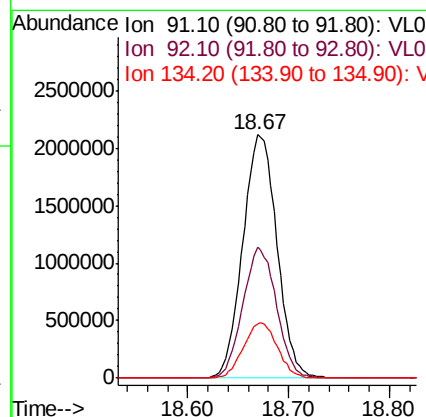
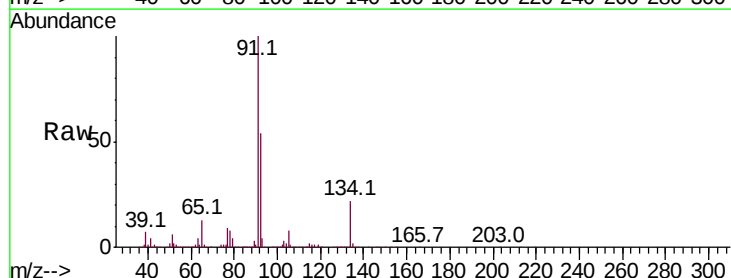
Manual Integrations
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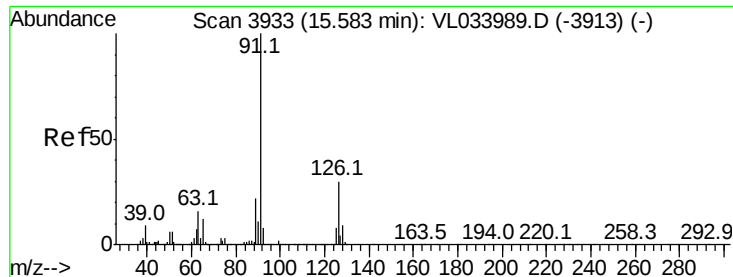
MMDadoda
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#70
 n-Butylbenzene
 Concen: 9.600 ppbv
 RT: 18.67 min Scan# 4893
 Delta R.T. -0.01 min
 Lab File: VL034019.D
 Acq: 11 Jul 2019 15:21

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.2	42.0	63.0
134	22.6	17.9	26.9





#71

2-Chlorotoluene

Concen: 9.310 ppbv

RT: 15.57 min Scan# 3930

Delta R.T. -0.01 min

Lab File: VL034019.D

Acq: 11 Jul 2019 15:21

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS01

Tot Ion: 91 Resp: 3401805

Ion Ratio Lower Upper

91 100

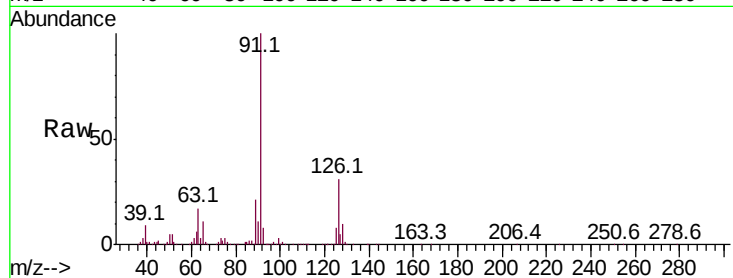
126 30.5 12.3 49.3

Manual Integrations

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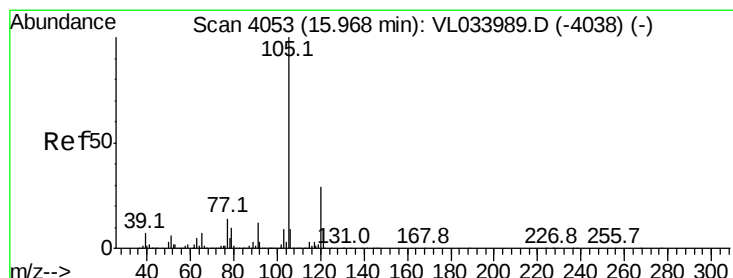
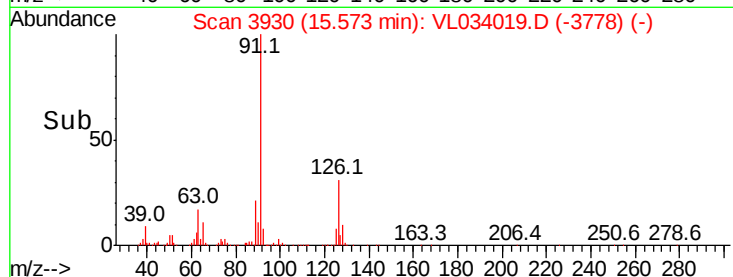
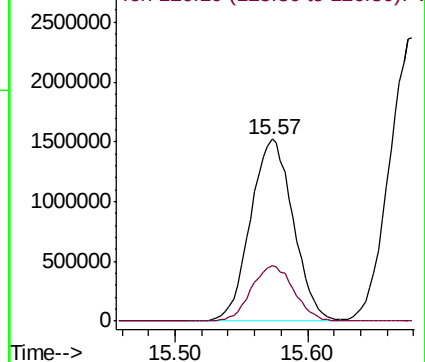
MMDadoda

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 9.533 ppbv

RT: 15.96 min Scan# 4049

Delta R.T. -0.01 min

Lab File: VL034019.D

Acq: 11 Jul 2019 15:21

Tgt Ion: 105 Resp: 3976300

Ion Ratio Lower Upper

105 100

120 28.3 24.1 36.1

91 13.0 10.6 16.0

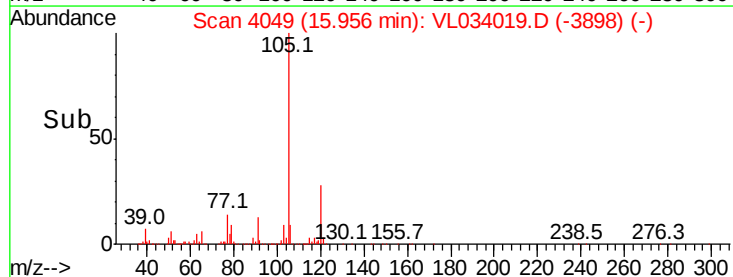
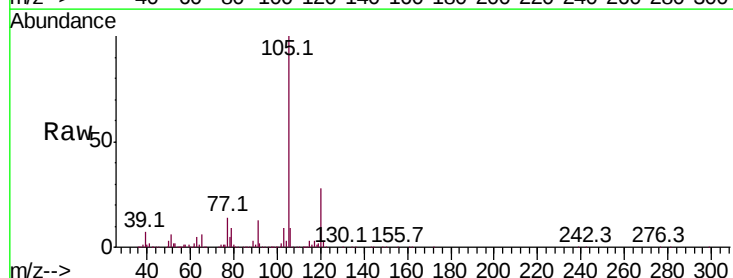
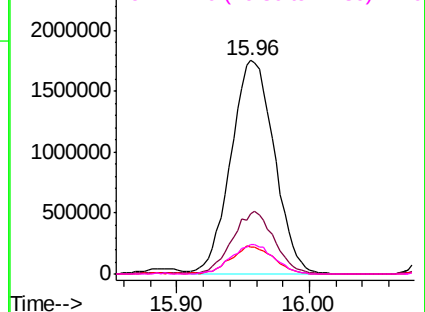
77 13.8 11.5 17.3

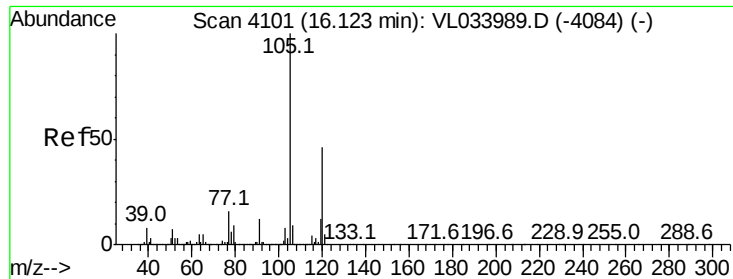
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

1,3,5-Trimethylbenzene

Concen: 9.731 ppbv

RT: 16.11 min Scan# 4098

Delta R.T. -0.01 min

Lab File: VL034019.D

Acq: 11 Jul 2019 15:21

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS01

Tot Ion:105 Resp: 3776587

Ion Ratio Lower Upper

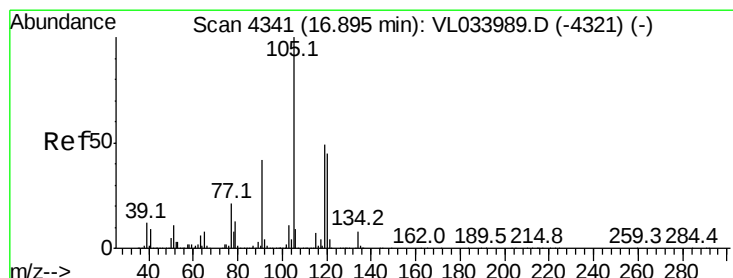
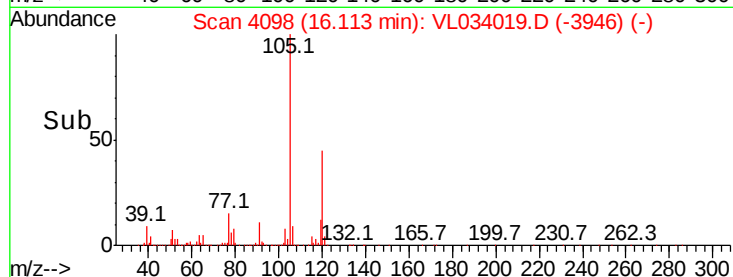
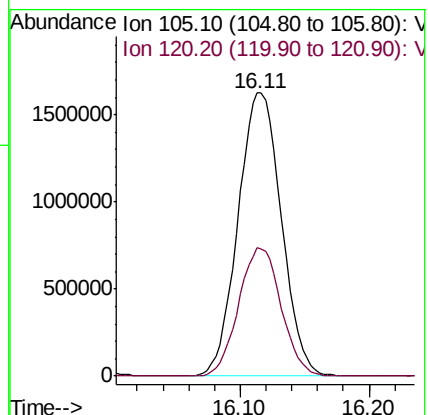
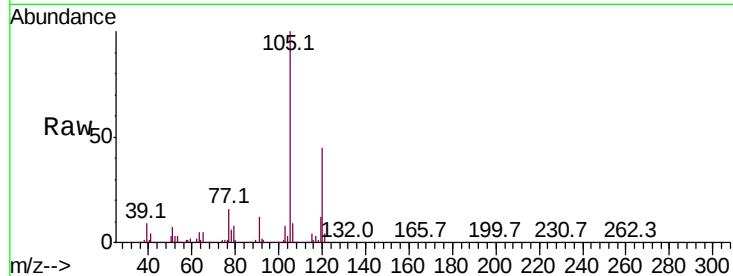
105 100

120 45.4 36.4 54.6

Manual Integrations
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#74

1,2,4-Trimethylbenzene

Concen: 8.978 ppbv

RT: 16.88 min Scan# 4338

Delta R.T. -0.01 min

Lab File: VL034019.D

Acq: 11 Jul 2019 15:21

Tgt Ion:105 Resp: 3859394

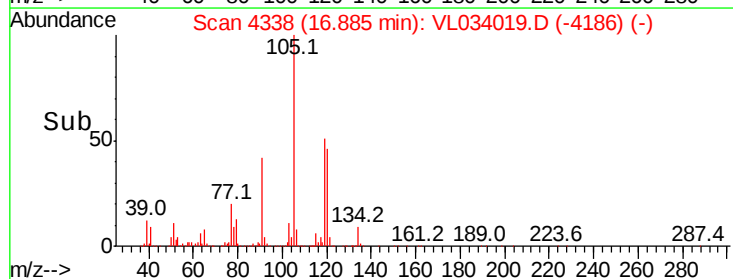
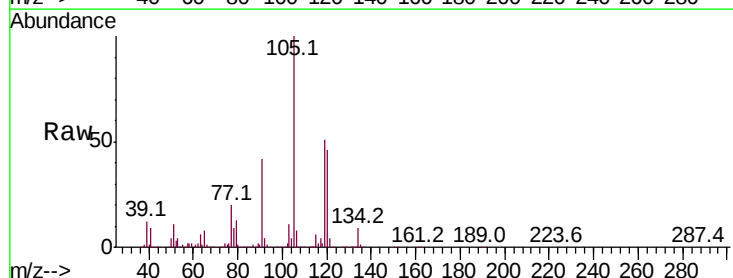
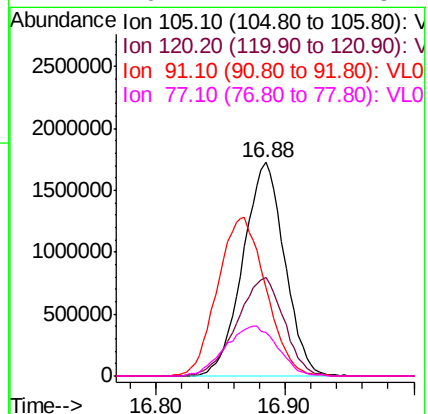
Ion Ratio Lower Upper

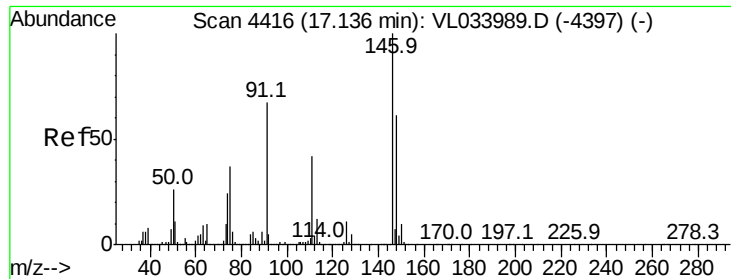
105 100

120 45.9 36.2 54.2

91 41.5 34.3 51.5

77 20.1 17.1 25.7





#75

1,3-Dichlorobenzene

Concen: 8.565 ppbv

RT: 17.12 min Scan# 4412

Delta R.T. -0.01 min

Lab File: VL034019.D

Acq: 11 Jul 2019 15:21

Instrument :

MSVOA_L

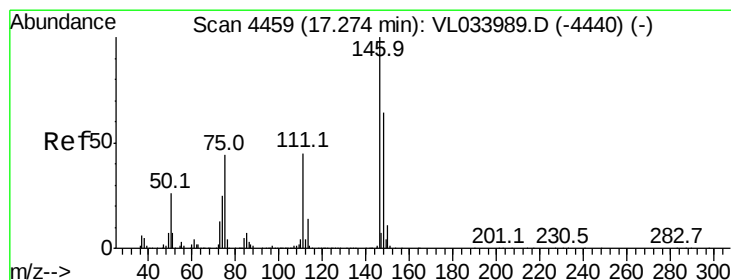
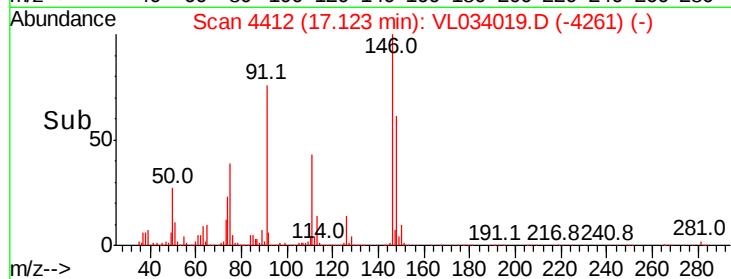
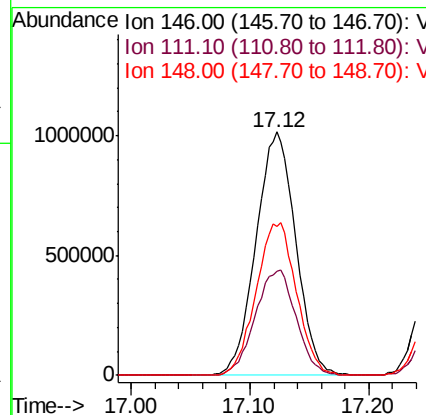
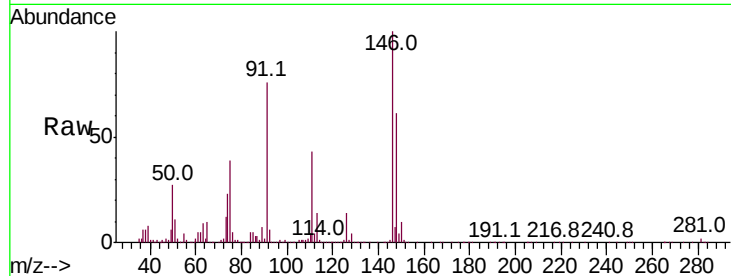
ClientSampleId :

VL0711ABS01

Tot Ion:	146	Resp:	2338755
Ion	Ratio	Lower	Upper
146	100		
111	44.8	22.3	66.9
148	63.9	32.0	96.2

Manual Integrations
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#76

1,4-Dichlorobenzene

Concen: 8.941 ppbv

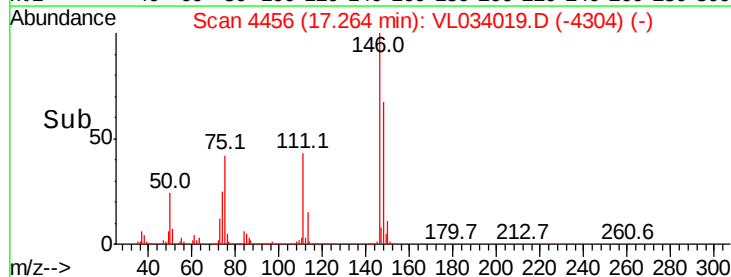
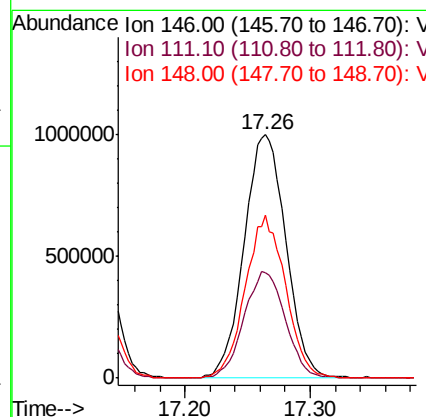
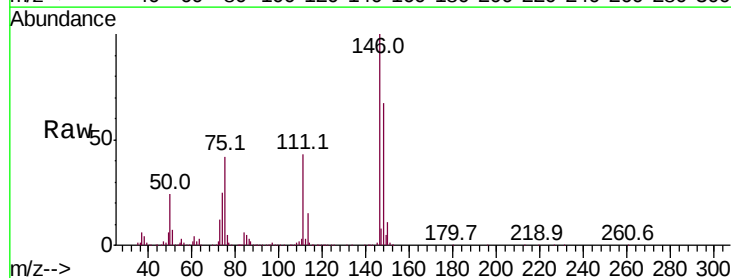
RT: 17.26 min Scan# 4456

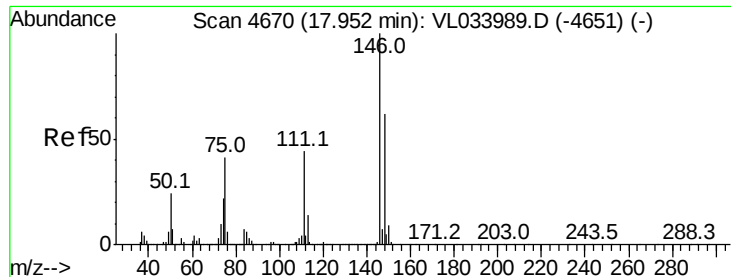
Delta R.T. -0.01 min

Lab File: VL034019.D

Acq: 11 Jul 2019 15:21

Tgt Ion:	146	Resp:	2299222
Ion	Ratio	Lower	Upper
146	100		
111	43.4	21.9	65.5
148	64.6	32.5	97.5





#77

1,2-Dichlorobenzene

Concen: 8.988 ppbv

RT: 17.95 min Scan# 4668

Delta R.T. -0.01 min

Lab File: VL034019.D

Acq: 11 Jul 2019 15:21

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS01

Tot Ion:146 Resp: 2272618

Ion Ratio Lower Upper

146 100

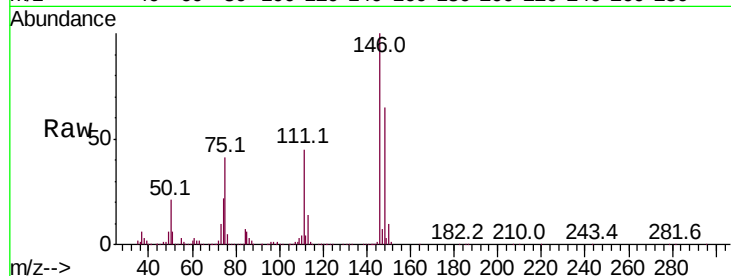
111 46.3 22.7 68.1

148 64.4 32.1 96.3

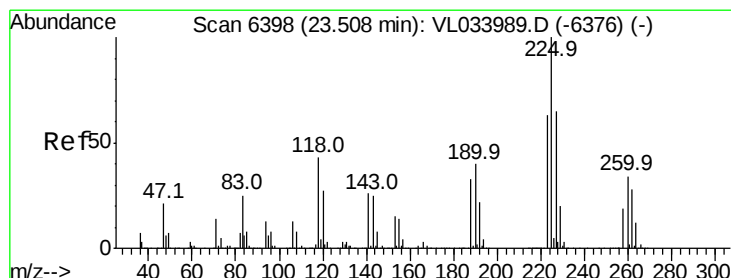
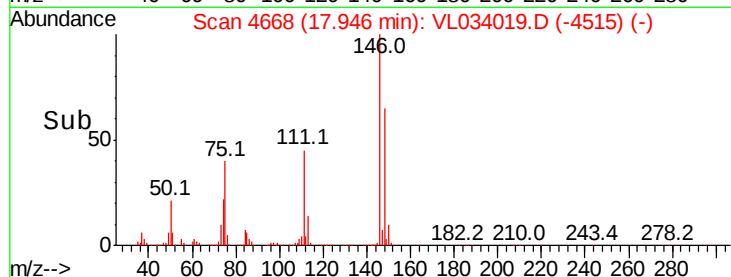
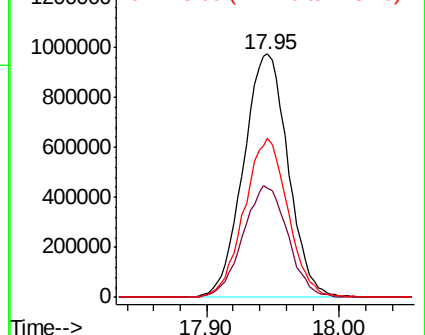
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 9.147 ppbv

RT: 23.50 min Scan# 6396

Delta R.T. -0.01 min

Lab File: VL034019.D

Acq: 11 Jul 2019 15:21

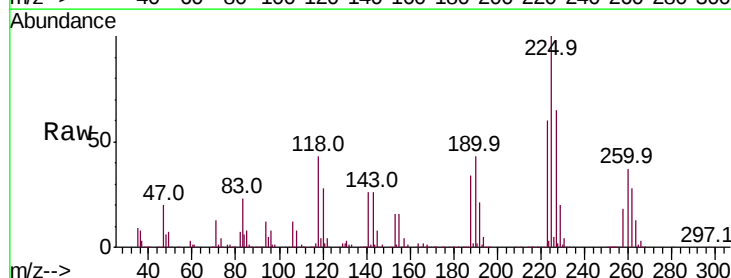
Tgt Ion:225 Resp: 1967936

Ion Ratio Lower Upper

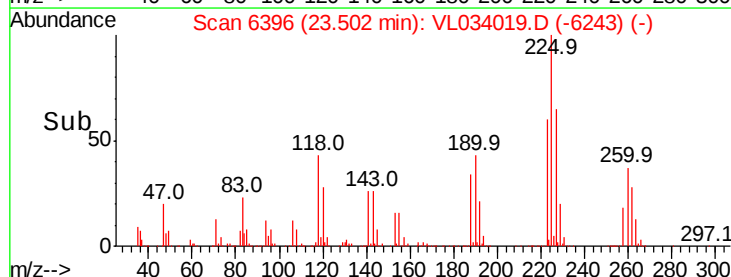
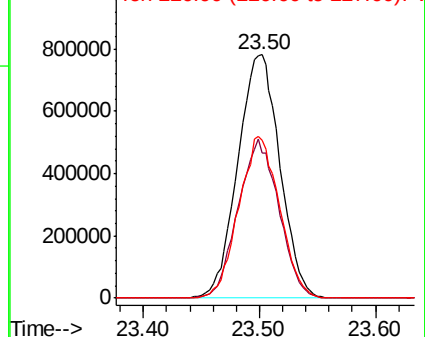
225 100

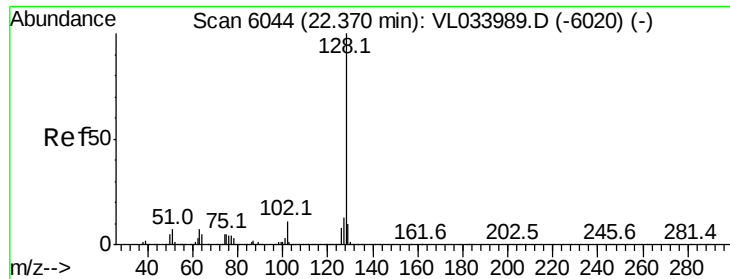
223 63.1 51.5 77.3

227 64.5 52.1 78.1



Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V





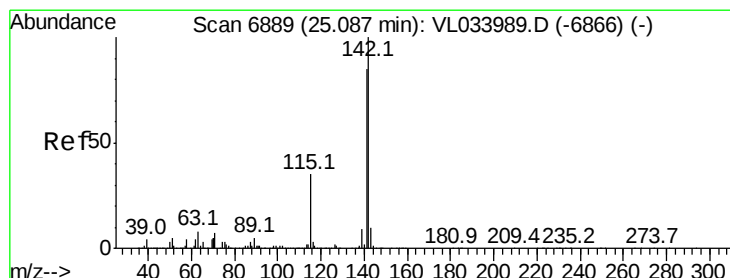
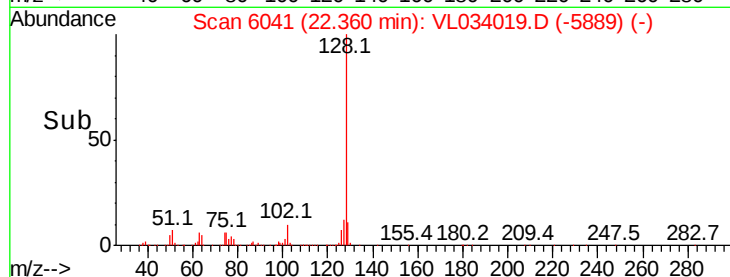
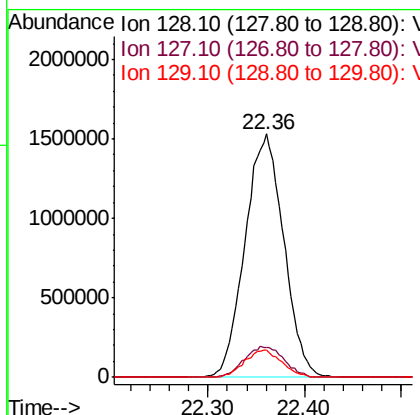
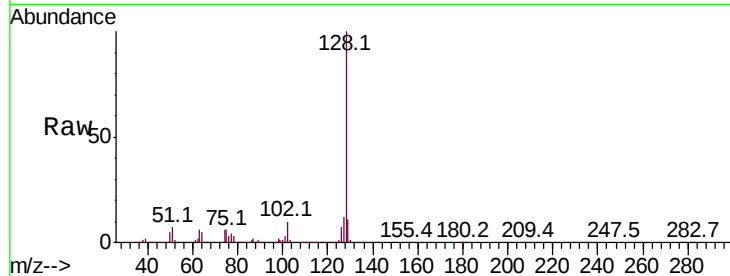
#79
Naphthalene
Concen: 11.776 ppbv
RT: 22.36 min Scan# 6041
Delta R.T. -0.01 min
Lab File: VL034019.D
Acq: 11 Jul 2019 15:21

Instrument :
MSVOA_L
ClientSampleId :
VL0711ABS01

Tot Ion:128 Resp: 4255564
Ion Ratio Lower Upper
128 100
127 12.1 10.6 15.8
129 11.2 8.3 12.5

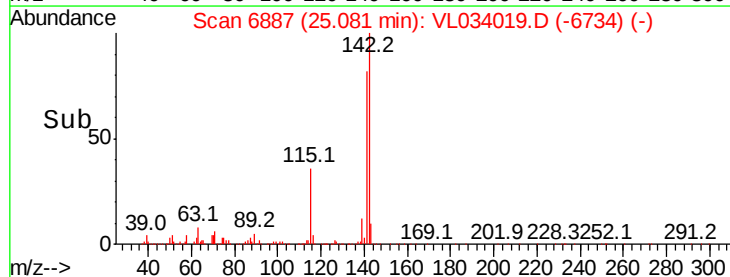
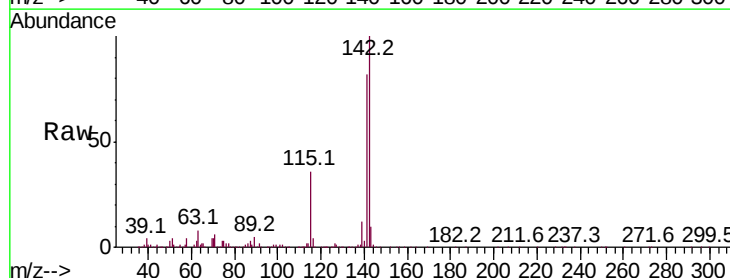
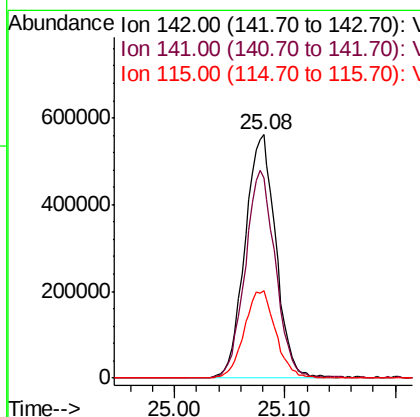
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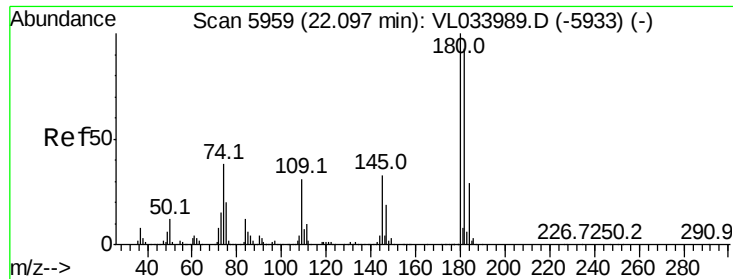
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#80
Naphthalene, 2-methyl-
Concen: 8.224 ppbv
RT: 25.08 min Scan# 6887
Delta R.T. -0.01 min
Lab File: VL034019.D
Acq: 11 Jul 2019 15:21

Tgt Ion:142 Resp: 1081567
Ion Ratio Lower Upper
142 100
141 84.6 68.2 102.2
115 36.8 29.9 44.9





#81

1,2,4-Trichlorobenzene

Concen: 10.525 ppbv

RT: 22.08 min Scan# 5955

Delta R.T. -0.01 min

Lab File: VL034019.D

Acq: 11 Jul 2019 15:21

Instrument :

MSVOA_L

ClientSampleId :

VL0711ABS01

Tot Ion:180 Resp: 2442877

Ion Ratio Lower Upper

180 100

182 96.3 76.6 114.8

184 31.0 24.6 36.8

Manual Integrations

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