

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090518\
 Data File : VL032455.D
 Acq On : 5 Sep 2018 13:22
 Operator : SY/AP
 Sample : VL0905ABS01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VL0905ABS01

Manual Integrations
 APPROVED

MMDadoda
 9/7/2018 10:45:49 AM

Quant Time: Sep 06 05:09:58 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31

QLast Update : Fri Aug 31 21:33:46 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.80	49	1526724	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.34	114	3329452	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.29	117	3401207m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.63	95	2472482	9.79	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.90%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	3.10	85	1428452	7.31	ppbv	100
3) Chlorodifluoromethane	3.04	51	1402426	10.15	ppbv	100
4) Chloromethane	3.20	50	831273	9.93	ppbv	99
5) Vinyl Chloride	3.32	62	778965	9.43	ppbv	96
6) Bromomethane	3.54	94	440076	10.15	ppbv	97
7) Chloroethane	3.63	64	281930	9.86	ppbv	96
8) Dichlorotetrafluoroethane	3.25	85	1647970	9.51	ppbv	98
9) Propene	3.06	41	689010	12.36	ppbv	100
10) Heptane	8.30	43	2340656	11.70	ppbv	98
11) Trichlorofluoromethane	4.04	101	1662723	9.44	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.59	101	1116351	9.36	ppbv	98
13) Ethanol	3.68	45	160332	9.23	ppbv	97
14) Bromoethene	3.82	108	537159	10.63	ppbv	100
15) Acetone	3.93	43	1334830	9.71	ppbv	98
16) 1,3-Butadiene	3.39	39	659402	10.19	ppbv	94
17) tert-Butyl alcohol	4.39	59	208555	9.86	ppbv #	100
18) 1,1-Dichloroethene	4.39	96	541251	9.93	ppbv	99
19) Isopropyl Alcohol	4.05	45	1080619	11.98	ppbv #	96
20) Methylene Chloride	4.44	84	468484	8.94	ppbv	97
21) Allyl Chloride	4.51	41	990799	10.85	ppbv	96
22) trans-1,2-Dichloroethene	5.01	96	577077	9.75	ppbv	98
23) Vinyl Acetate	5.19	43	2977417	13.07	ppbv	99
24) 1,1-Dichloroethane	5.13	63	1776060	9.46	ppbv	99
25) Ethyl Acetate	5.81	43	3367385	10.37	ppbv	99
26) Hexane	5.82	57	1499511	10.31	ppbv	96
27) Carbon Disulfide	4.66	76	1527864	11.39	ppbv	99
28) Methyl tert-Butyl Ether	5.15	73	2198837	12.32	ppbv	99
29) Chloroform	5.89	83	2163580	9.76	ppbv	98
30) Cyclohexane	7.30	84	1278030	12.01	ppbv	100
31) cis-1,2-Dichloroethene	5.68	61	1575221	11.97	ppbv	100
32) 1,1,1-Trichloroethane	6.66	97	2068058	10.01	ppbv	98
34) 2-Butanone	5.37	43	2399764	10.85	ppbv	99
35) Carbon Tetrachloride	7.18	117	2072940	9.26	ppbv	98
36) Benzene	7.05	78	3058120	10.79	ppbv	100
37) 1,2-Dichloroethane	6.46	62	1696347	9.77	ppbv	100
38) Trichloroethene	8.01	130	1127740	10.48	ppbv	98
39) 1,2-Dichloropropane	7.78	63	1360685	11.22	ppbv	99
40) 1,4-Dioxane	8.00	88	443861	12.20	ppbv #	1
41) Tetrahydrofuran	6.19	42	1433276	11.90	ppbv	100
42) Bromodichloromethane	7.96	83	2566221	10.72	ppbv	99
43) Methyl Methacrylate	8.19	69	1416120	11.78	ppbv	96

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Manual Integrations
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 9/7/2018 10:45:49 AM

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31

QLast Update : Fri Aug 31 21:33:46 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.04	57	5831342	10.65	ppbv	99
45) t-1,3-Dichloropropene	9.47	75	1733718	13.48	ppbv	100
46) cis-1,3-Dichloropropene	8.89	75	2083306	12.68	ppbv	99
47) 1,1,2-Trichloroethane	9.67	97	1195026	9.27	ppbv	99
48) Dibromochloromethane	10.50	129	2065702	11.57	ppbv	100
49) Bromoform	13.26	173	1554282	10.02	ppbv	100
50) 4-Methyl-2-Pentanone	8.92	43	3592623	10.78	ppbv	99
51) 2-Hexanone	10.32	43	2935268	13.68	ppbv #	99
52) Tetrachloroethene	11.42	164	911267	10.37	ppbv	97
53) Toluene	10.00	91	3405855	11.50	ppbv	100
54) 1,2-Dibromoethane	10.81	107	1772193	10.24	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.33	131	1349325	8.80	ppbv #	60
57) Chlorobenzene	12.36	112	2460140	9.05	ppbv	98
58) Ethyl Benzene	12.92	91	4595108	11.29	ppbv	98
59) m/p-Xylene	13.21	91	7328104m	20.19	ppbv	
60) o-Xylene	13.90	91	3502480	9.83	ppbv	100
61) Styrene	13.74	104	2751392	11.92	ppbv	99
62) Isopropylbenzene	14.88	105	5176256	10.33	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.89	83	2594649	8.14	ppbv	99
64) n-propylbenzene	15.77	120	1349638	10.30	ppbv	97
65) tert-Butylbenzene	16.96	119	4292252	9.94	ppbv	99
66) Benzyl Chloride	17.21	91	2787019	11.59	ppbv	99
67) sec-Butylbenzene	17.51	105	6467464	9.96	ppbv	99
69) p-Isopropyltoluene	17.87	119	5195766	10.32	ppbv	99
70) n-Butylbenzene	18.76	91	5712720	10.01	ppbv	100
71) 2-Chlorotoluene	15.67	91	4124464	10.77	ppbv	99
72) 4-Ethyltoluene	16.05	105	4313262	11.08	ppbv	100
73) 1,3,5-Trimethylbenzene	16.21	105	4074614	10.45	ppbv	97
74) 1,2,4-Trimethylbenzene	16.98	105	4068914	9.55	ppbv	96
75) 1,3-Dichlorobenzene	17.22	146	2257906	8.93	ppbv	100
76) 1,4-Dichlorobenzene	17.36	146	2308435	9.84	ppbv	99
77) 1,2-Dichlorobenzene	18.04	146	2278363	9.34	ppbv	100
78) Hexachloro-1,3-Butadiene	23.59	225	753592	8.27	ppbv	99
79) Naphthalene	22.47	128	3965533	11.44	ppbv	99
80) Naphthalene, 2-methyl-	25.15	142	1687825	18.30	ppbv	99
81) 1,2,4-Trichlorobenzene	22.19	180	1864263	10.68	ppbv	99

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

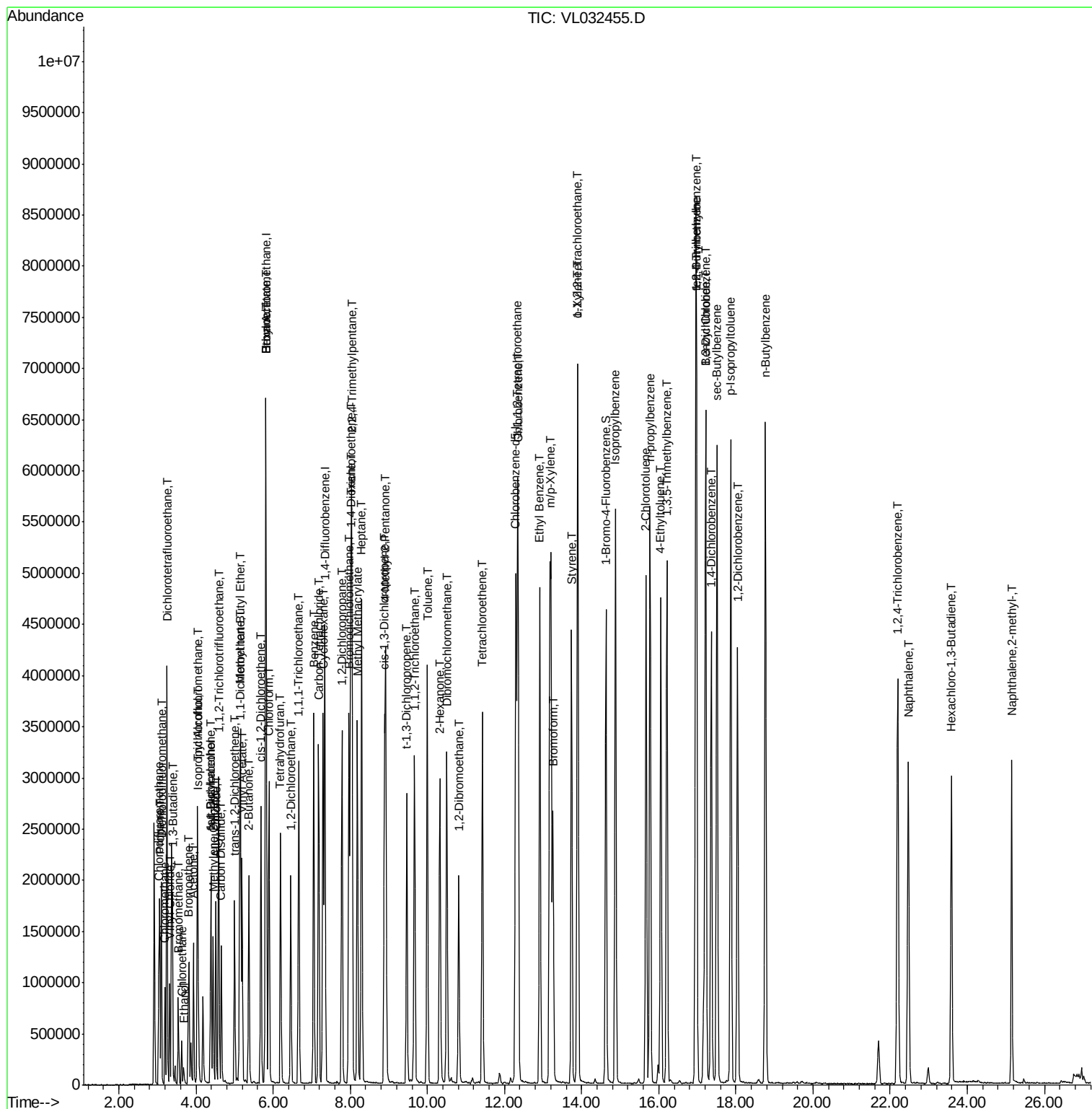
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL090518\
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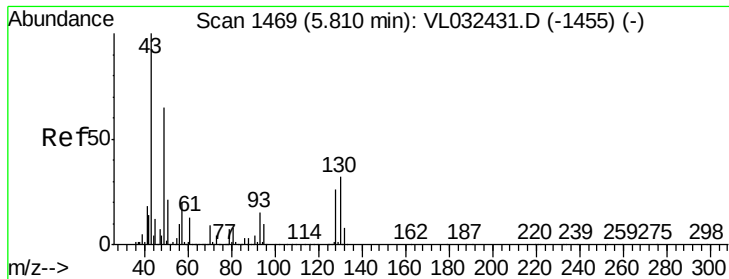
Instrument :
MSVOA_L
ClientSampled :
VL0905ABS01

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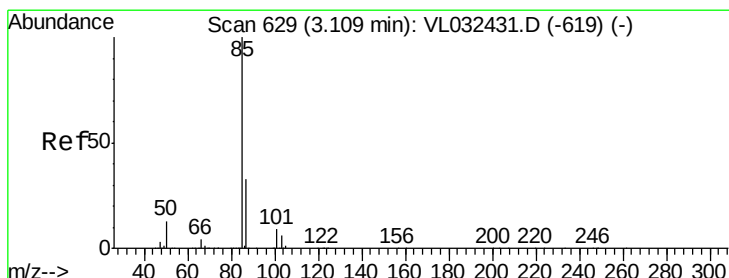
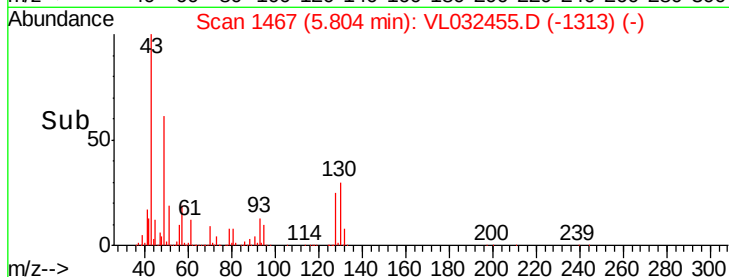
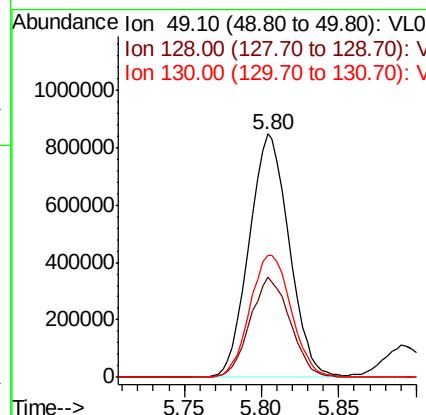
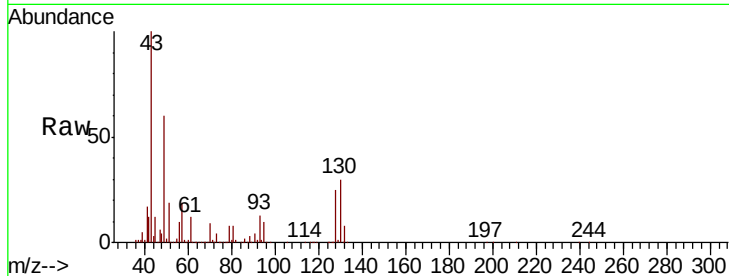
#1
 Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.80 min Scan# 1467
 Delta R.T. -0.01 min
 Lab File: VL032455.D
 Acq: 5 Sep 2018 13:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0905ABS01

Tot Ion	Ratio	Lower	Upper
49	100		
128	41.2	20.7	62.1
130	52.5	26.6	79.7

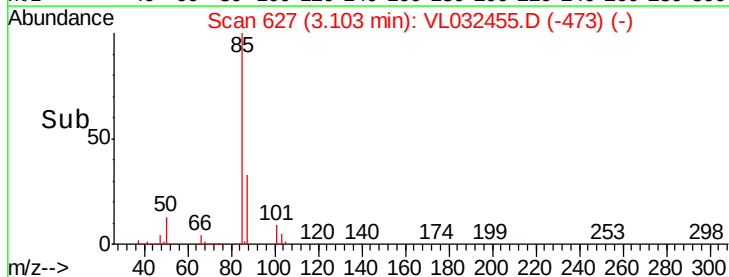
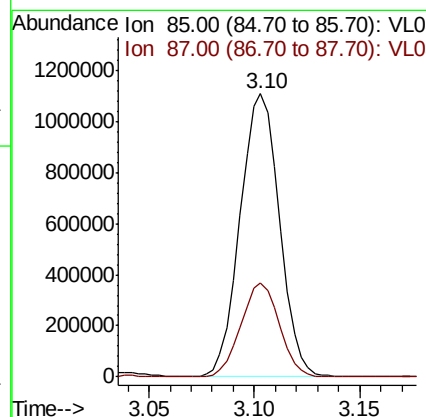
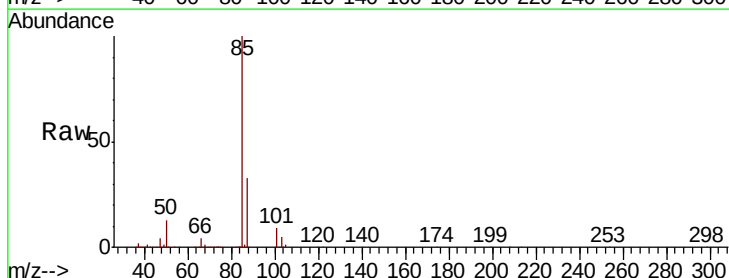
Manual Integrations
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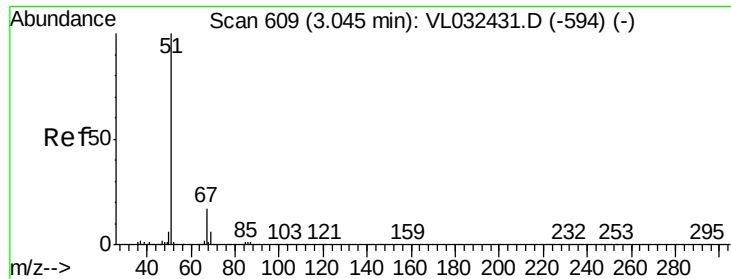
MMDadoda
 9/7/2018 10:45:49 AM



#2
 Dichlorodifluoromethane
 Concen: 7.31 ppbv
 RT: 3.10 min Scan# 627
 Delta R.T. -0.01 min
 Lab File: VL032455.D
 Acq: 5 Sep 2018 13:22

Tgt Ion	Ratio	Lower	Upper
85	100		
87	33.1	26.2	39.4





#3

Chlorodifluoromethane

Concen: 10.15 ppbv

RT: 3.04 min Scan# 607

Delta R.T. -0.01 min

Lab File: VL032455.D

Acq: 5 Sep 2018 13:22

Tot Ion: 51 Resp: 1402426

Ion Ratio Lower Upper

51 100

67 17.2 13.8 20.8

Instrument :

MSVOA_L

ClientSampleId :

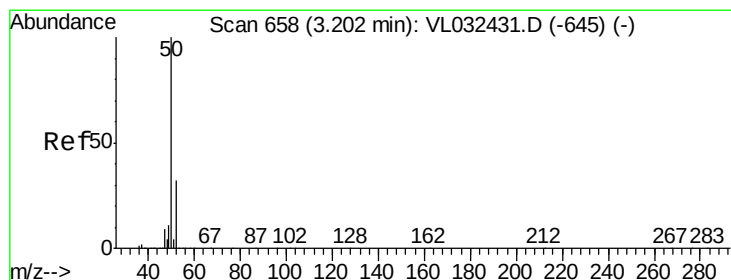
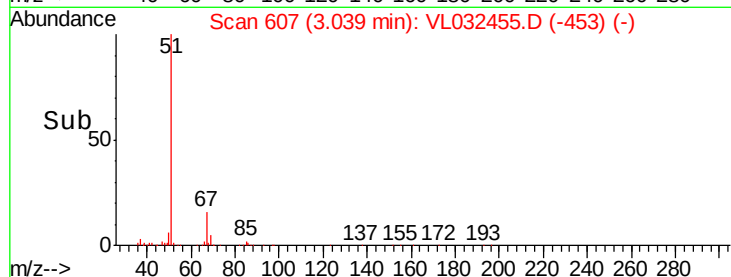
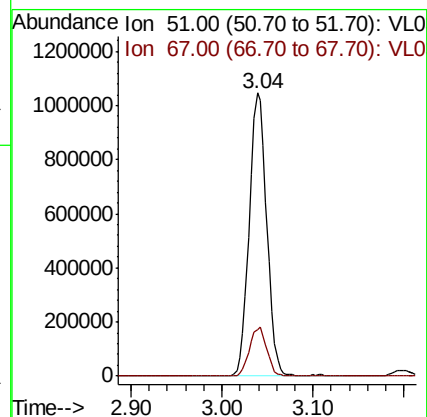
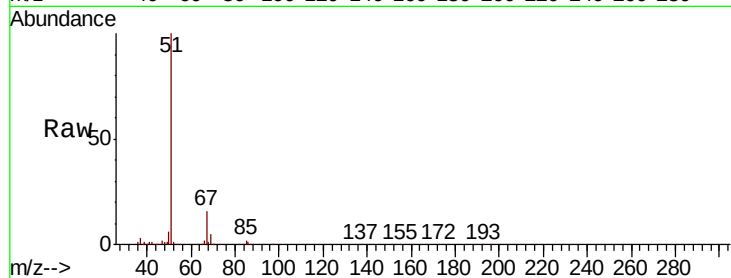
VL0905ABS01

Manual Integrations

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#4

Chloromethane

Concen: 9.93 ppbv

RT: 3.20 min Scan# 656

Delta R.T. -0.01 min

Lab File: VL032455.D

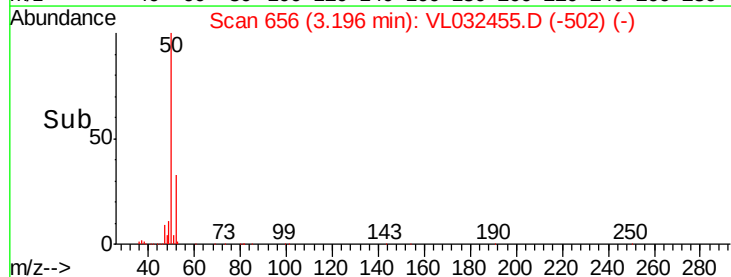
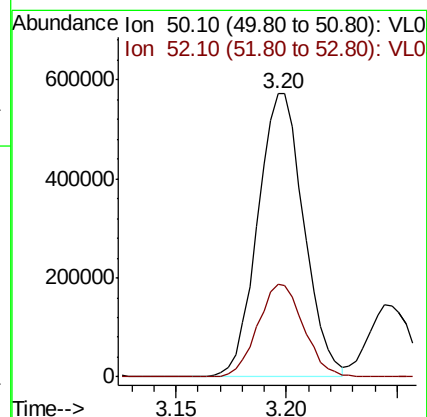
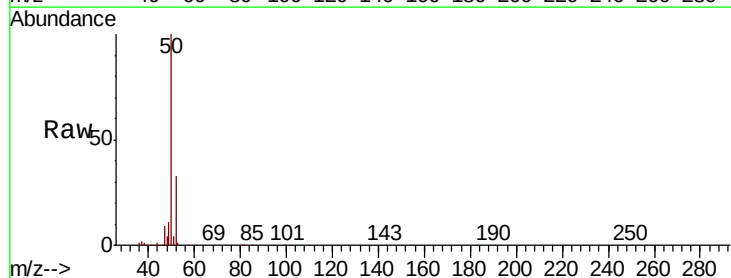
Acq: 5 Sep 2018 13:22

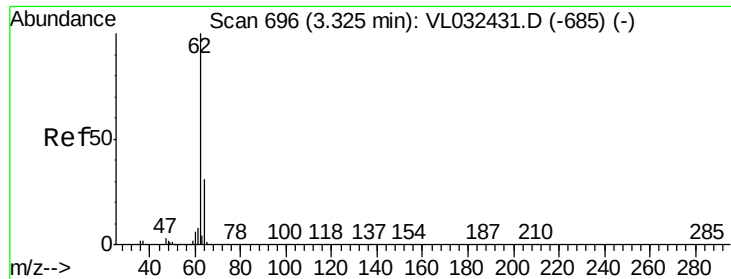
Tgt Ion: 50 Resp: 831273

Ion Ratio Lower Upper

50 100

52 32.6 25.6 38.4





#5

Vinyl Chloride

Concen: 9.43 ppbv

RT: 3.32 min Scan# 694

Delta R.T. -0.01 min

Lab File: VL032455.D

Acq: 5 Sep 2018 13:22

Instrument :

MSVOA_L

ClientSampleId :

VL0905ABS01

Tot Ion: 62 Resp: 778965

Ion Ratio Lower Upper

62 100

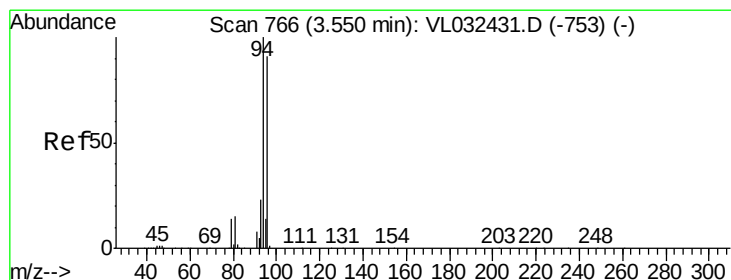
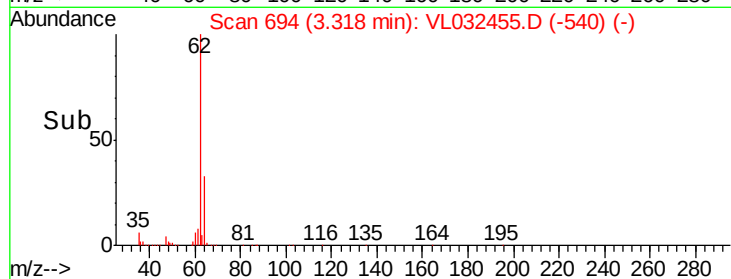
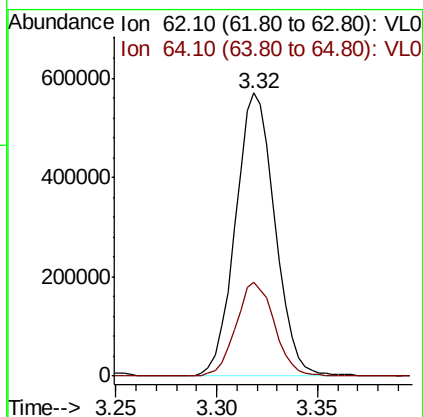
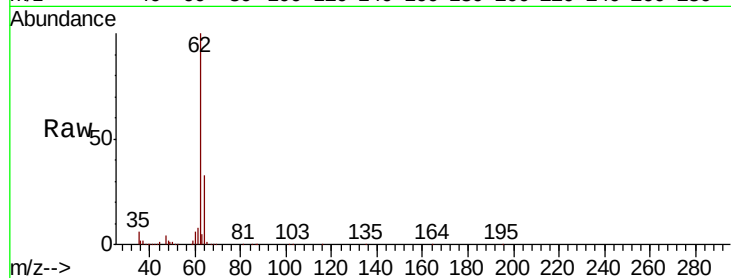
64 33.3 25.0 37.6

Manual Integrations

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#6

Bromomethane

Concen: 10.15 ppbv

RT: 3.54 min Scan# 764

Delta R.T. -0.01 min

Lab File: VL032455.D

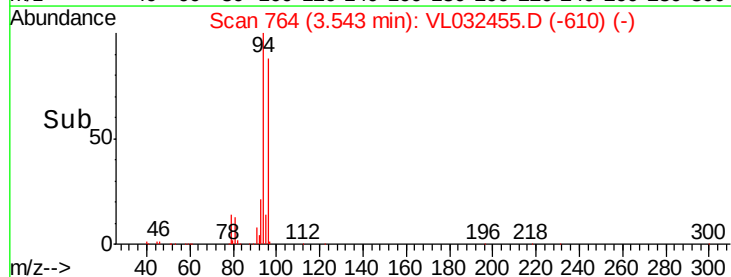
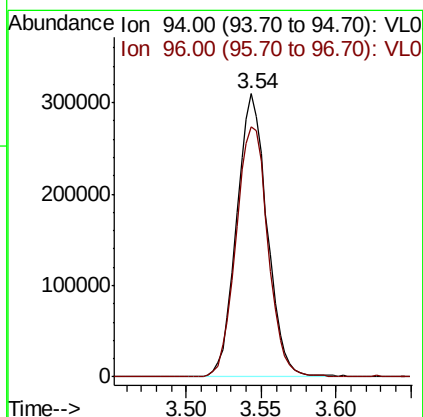
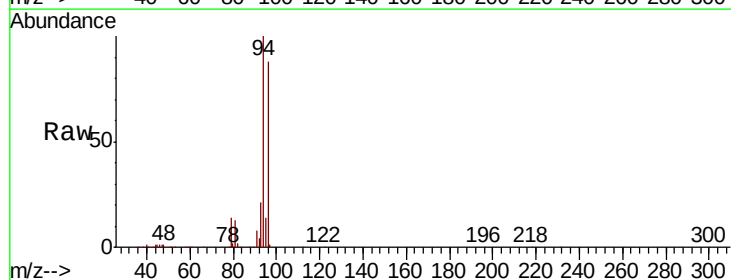
Acq: 5 Sep 2018 13:22

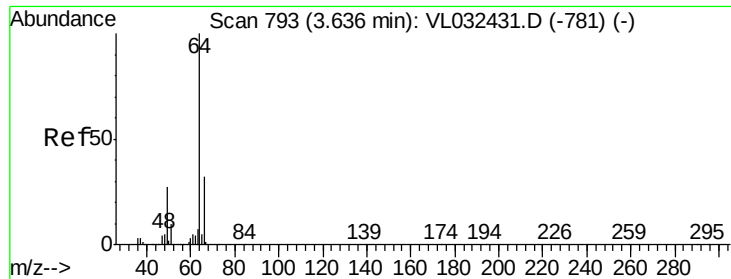
Tgt Ion: 94 Resp: 440076

Ion Ratio Lower Upper

94 100

96 88.4 72.8 109.2





#7

Chloroethane

Concen: 9.86 ppbv

RT: 3.63 min Scan# 791

Delta R.T. -0.01 min

Lab File: VL032455.D

Acq: 5 Sep 2018 13:22

Instrument :

MSVOA_L

ClientSampleId :

VL0905ABS01

Tot Ion: 64 Resp: 281930

Ion Ratio Lower Upper

64 100

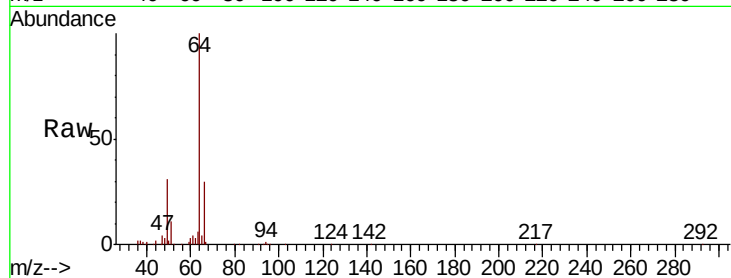
66 30.2 25.8 38.6

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

3.63

200000

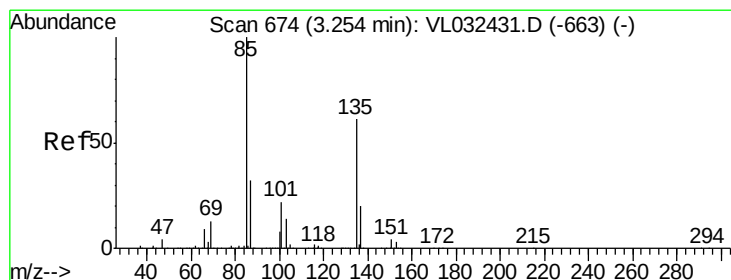
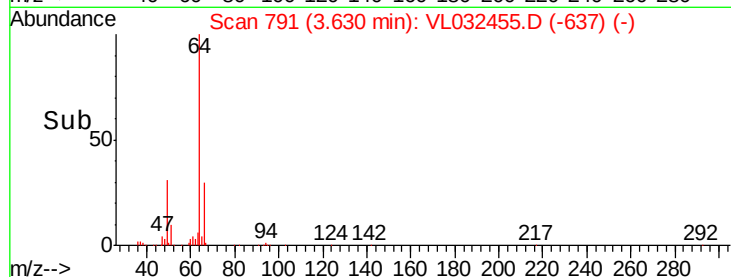
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 9.51 ppbv

RT: 3.25 min Scan# 672

Delta R.T. -0.01 min

Lab File: VL032455.D

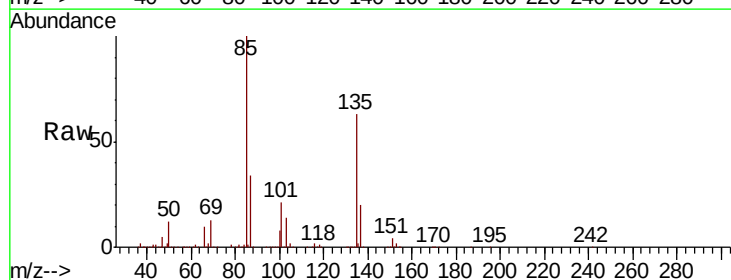
Acq: 5 Sep 2018 13:22

Tgt Ion: 85 Resp: 1647970

Ion Ratio Lower Upper

85 100

135 62.2 48.6 72.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

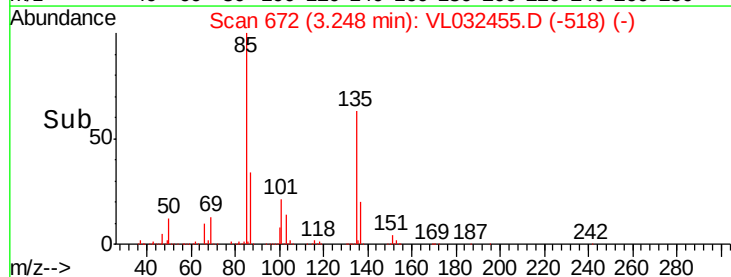
3.25

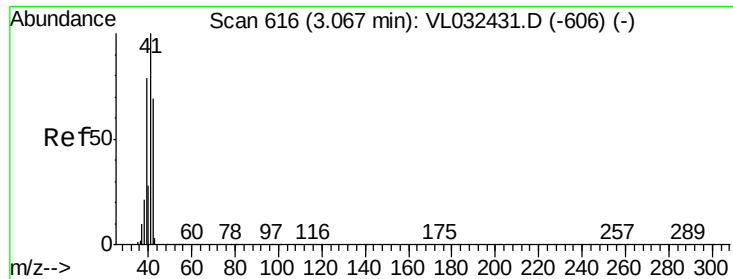
1000000

500000

0

Time-->





#9

Propene

Concen: 12.36 ppbv

RT: 3.06 min Scan# 614

Delta R.T. -0.01 min

Lab File: VL032455.D

Acq: 5 Sep 2018 13:22

Instrument :

MSVOA_L

ClientSampleId :

VL0905ABS01

Tot Ion: 41 Resp: 689010

Ion Ratio Lower Upper

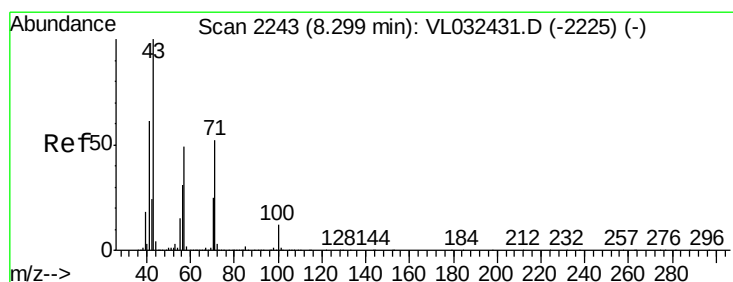
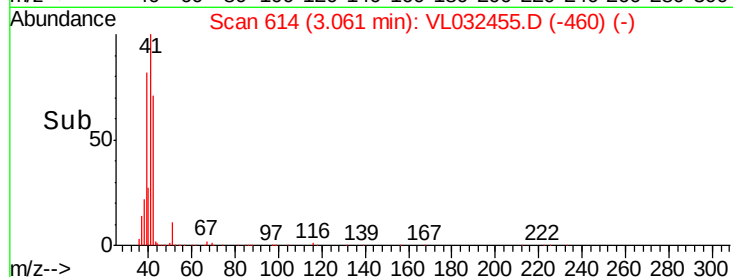
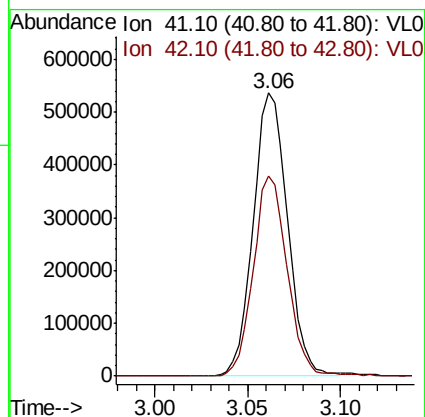
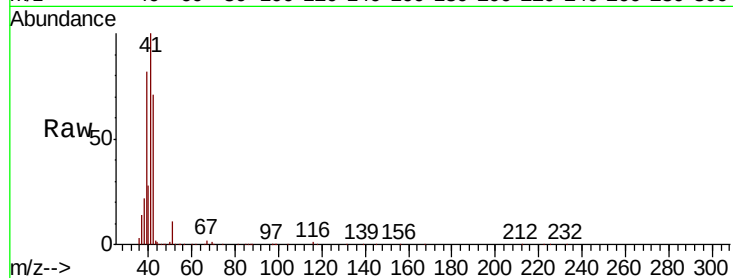
41 100

42 70.3 56.6 84.8

Manual Integrations
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9/7/2018 10:45:49 AM



#10

Heptane

Concen: 11.70 ppbv

RT: 8.30 min Scan# 2242

Delta R.T. -0.00 min

Lab File: VL032455.D

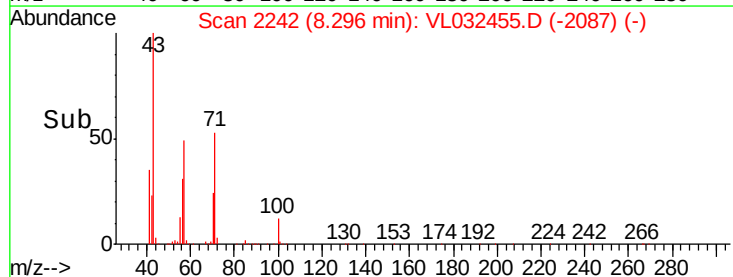
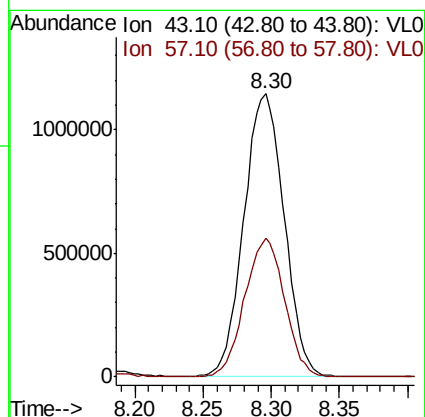
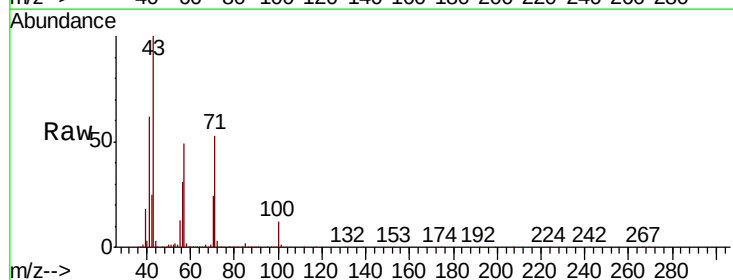
Acq: 5 Sep 2018 13:22

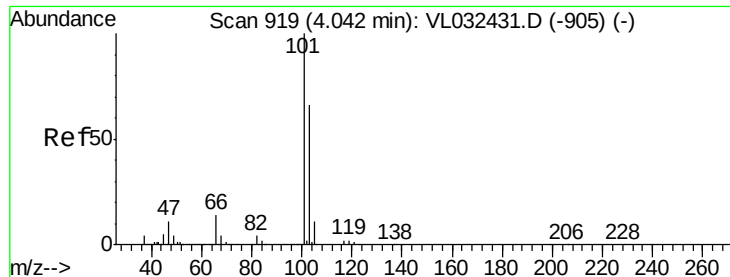
Tgt Ion: 43 Resp: 2340656

Ion Ratio Lower Upper

43 100

57 48.5 39.6 59.4





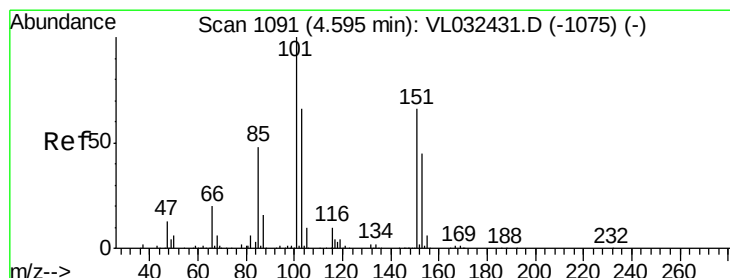
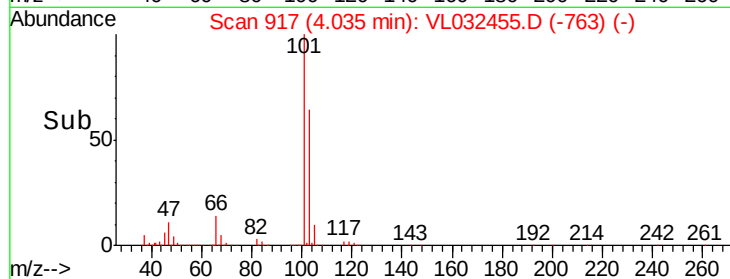
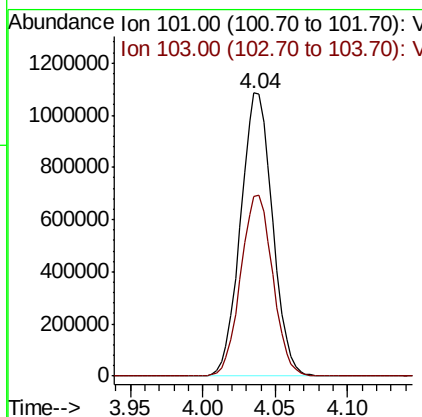
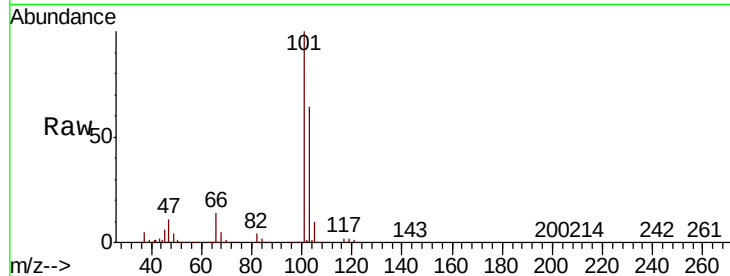
#11
 Trichlorofluoromethane
 Concen: 9.44 ppbv
 RT: 4.04 min Scan# 917
 Delta R.T. -0.01 min
 Lab File: VL032455.D
 Acq: 5 Sep 2018 13:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0905ABS01

Tot Ion:101 Resp: 1662723
 Ion Ratio Lower Upper
 101 100
 103 63.5 52.8 79.2

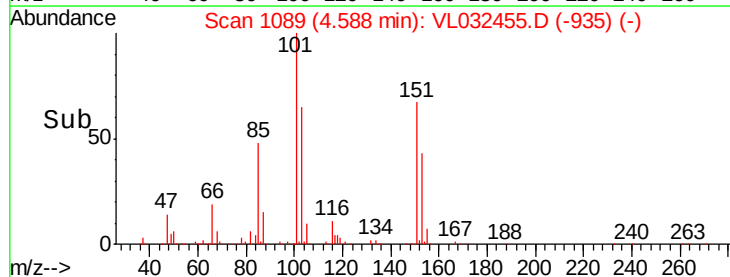
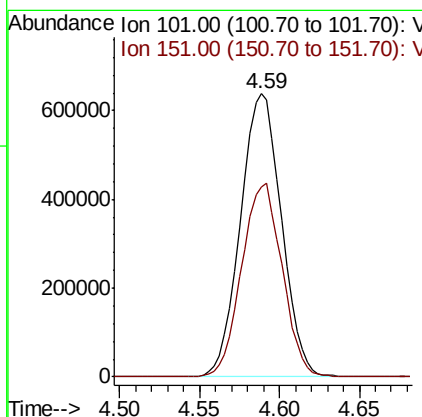
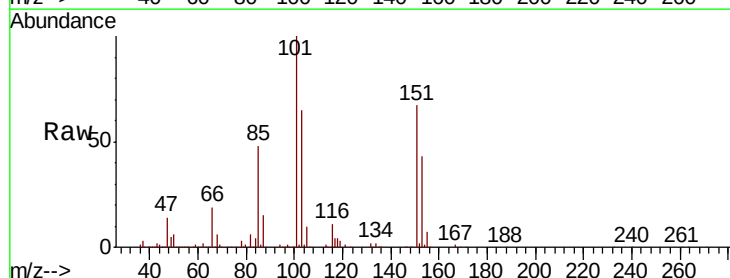
Manual Integrations
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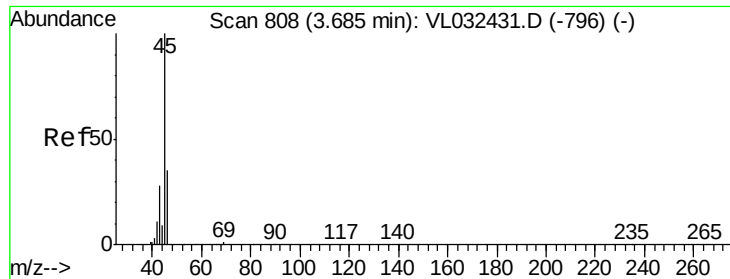
MMDadoda
 9/7/2018 10:45:49 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 9.36 ppbv
 RT: 4.59 min Scan# 1089
 Delta R.T. -0.01 min
 Lab File: VL032455.D
 Acq: 5 Sep 2018 13:22

Tgt Ion:101 Resp: 1116351
 Ion Ratio Lower Upper
 101 100
 151 67.3 52.6 78.8





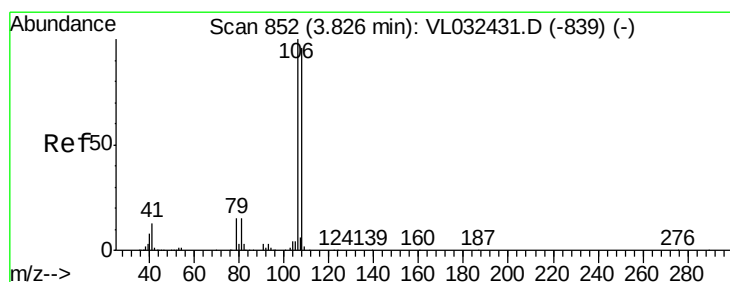
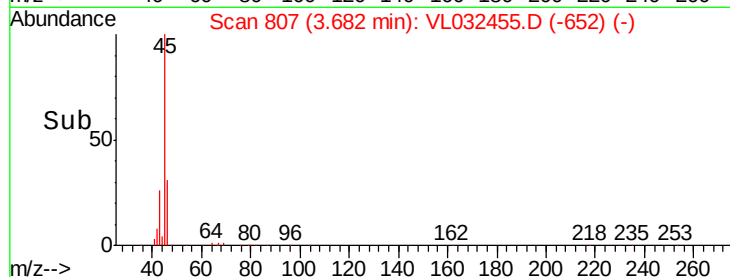
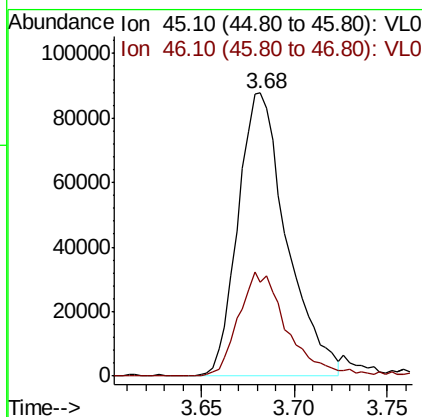
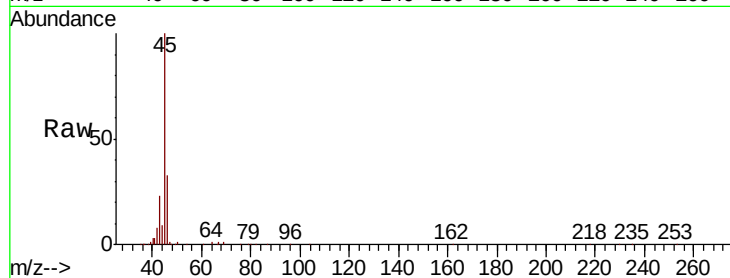
#13
Ethanol
Concen: 9.23 ppbv
RT: 3.68 min Scan# 807
Delta R.T. -0.00 min
Lab File: VL032455.D
Acq: 5 Sep 2018 13:22

Instrument :
MSVOA_L
ClientSampleId :
VL0905ABS01

Tot Ion	45.10	Resp	160332
Ion Ratio	45	100	
Lower	46	37.2	14.2
Upper			56.8

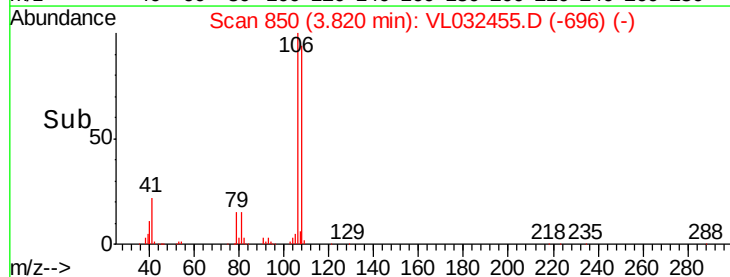
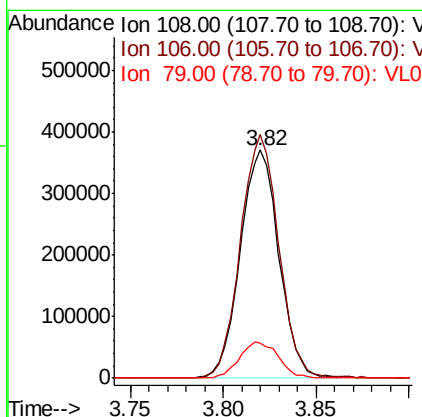
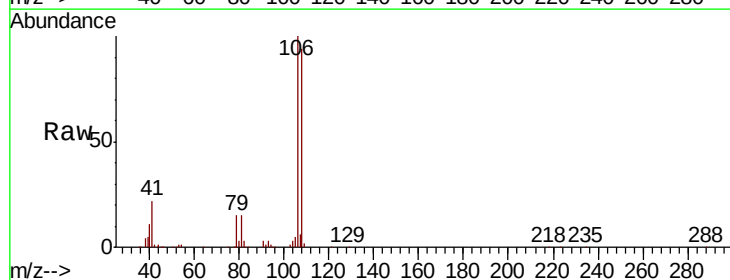
Manual Integrations
APPROVED

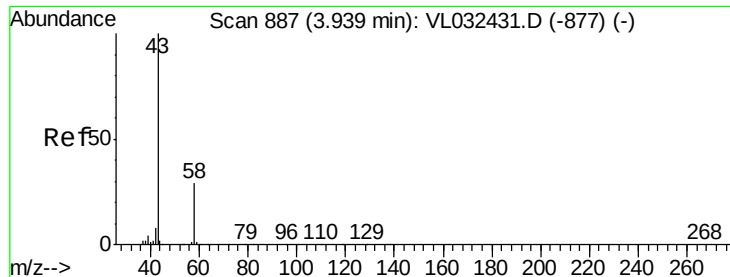
MMDadoda
9/7/2018 10:45:49 AM



#14
Bromoethene
Concen: 10.63 ppbv
RT: 3.82 min Scan# 850
Delta R.T. -0.01 min
Lab File: VL032455.D
Acq: 5 Sep 2018 13:22

Tgt Ion	108	Resp	537159
Ion Ratio	108	100	
Lower	106	106.6	85.5
Upper	79	16.5	13.0





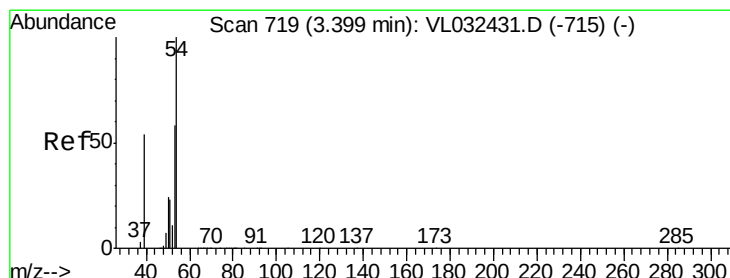
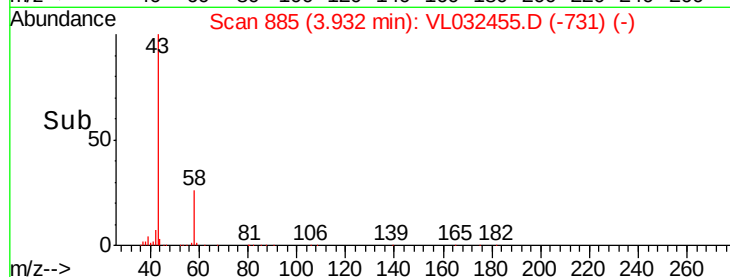
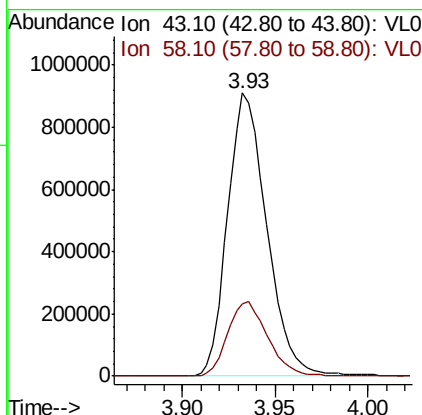
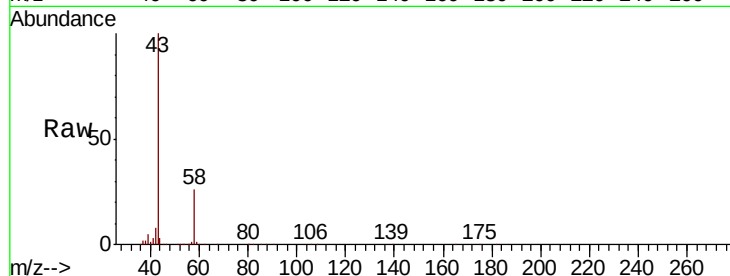
#15
Acetone
Concen: 9.71 ppbv
RT: 3.93 min Scan# 885
Delta R.T. -0.01 min
Lab File: VL032455.D
Acq: 5 Sep 2018 13:22

Instrument :
MSVOA_L
ClientSampleId :
VL0905ABS01

Tot Ion: 43 Resp: 1334830
Ion Ratio Lower Upper
43 100
58 27.0 22.6 33.8

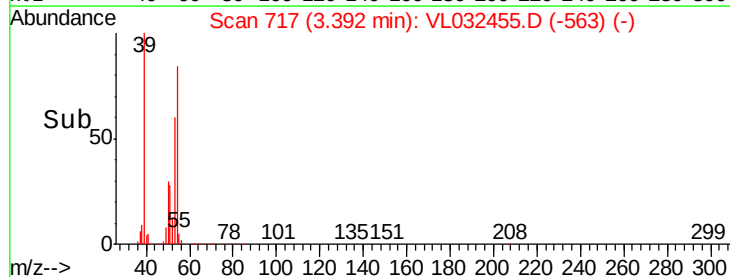
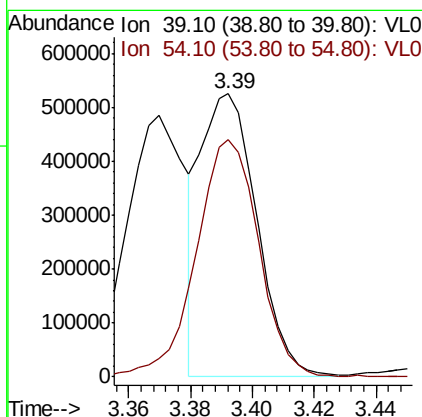
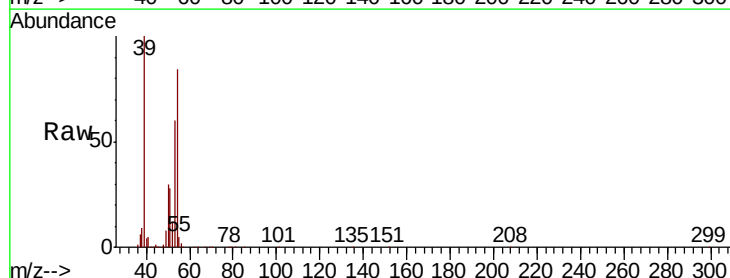
Manual Integrations
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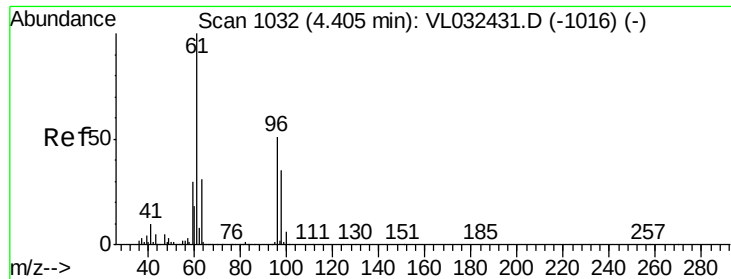
MMDadoda
9/7/2018 10:45:49 AM



#16
1,3-Butadiene
Concen: 10.19 ppbv
RT: 3.39 min Scan# 717
Delta R.T. -0.01 min
Lab File: VL032455.D
Acq: 5 Sep 2018 13:22

Tgt Ion: 39 Resp: 659402
Ion Ratio Lower Upper
39 100
54 94.9 80.8 121.2





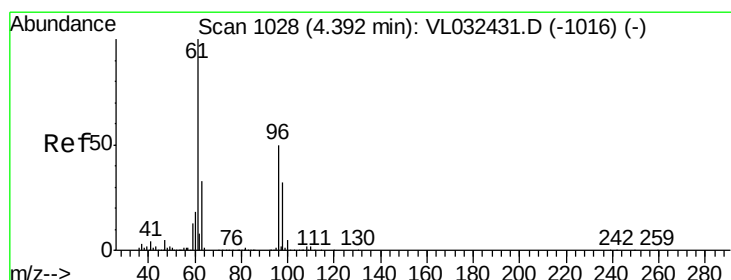
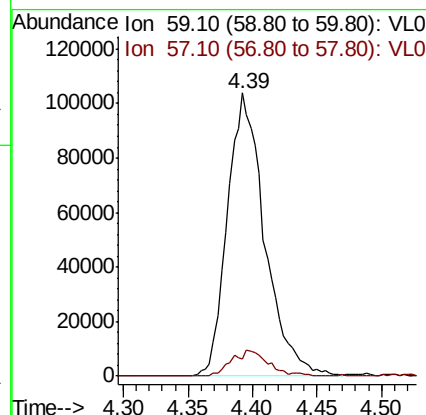
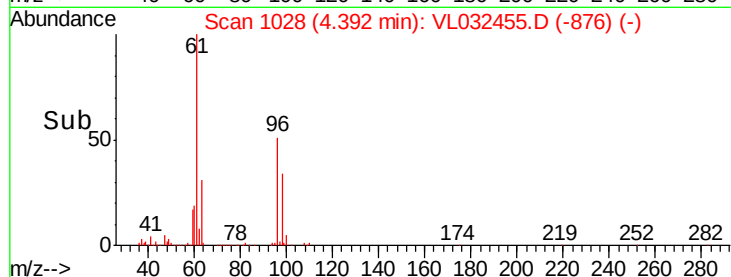
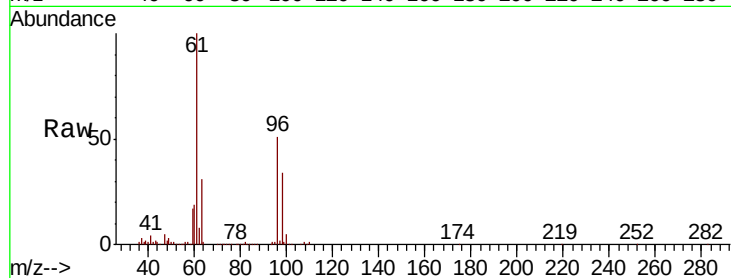
#17
tert-Butyl alcohol
Concen: 9.86 ppbv
RT: 4.39 min Scan# 1028
Delta R.T. -0.01 min
Lab File: VL032455.D
Acq: 5 Sep 2018 13:22

Instrument :
MSVOA_L
ClientSampleId :
VL0905ABS01

Tot Ion	Ratio	Resp	Lower	Upper
59	100	208555		
57	9.2	0.0	0.0	0.0

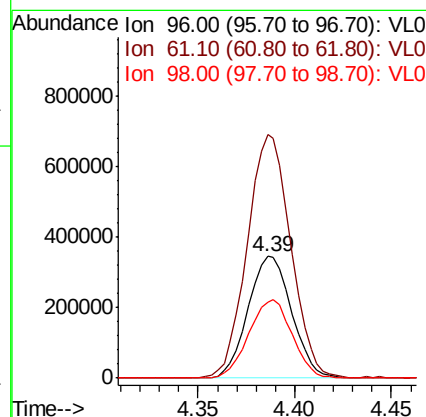
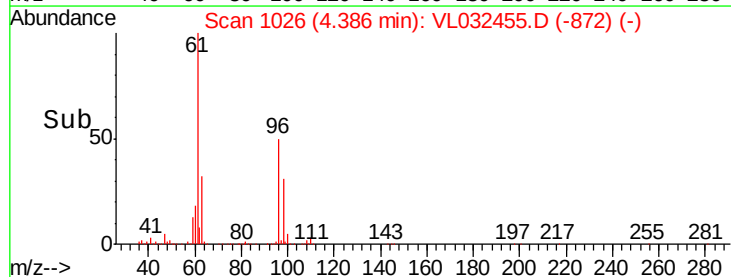
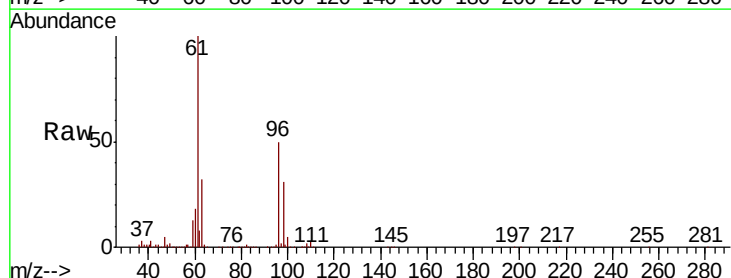
Manual Integrations
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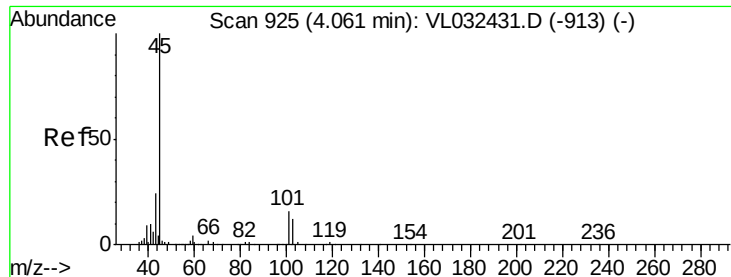
MMDadoda
9/7/2018 10:45:49 AM



#18
1,1-Dichloroethene
Concen: 9.93 ppbv
RT: 4.39 min Scan# 1026
Delta R.T. -0.01 min
Lab File: VL032455.D
Acq: 5 Sep 2018 13:22

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	541251		
61	200.1	159.2	238.8	
98	62.9	51.0	76.4	





#19

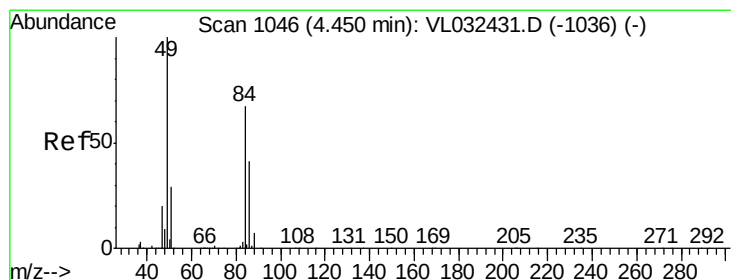
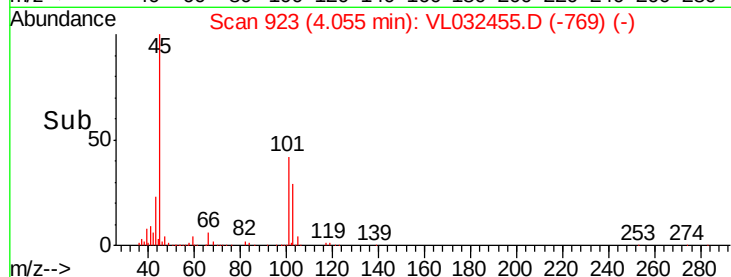
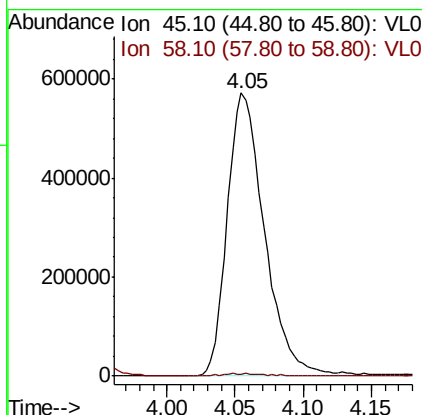
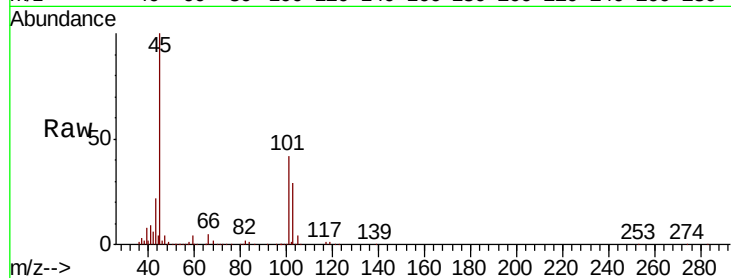
Isopropyl Alcohol
 Concen: 11.98 ppbv
 RT: 4.05 min Scan# 923
 Delta R.T. -0.01 min
 Lab File: VL032455.D
 Acq: 5 Sep 2018 13:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0905ABS01

Tot Ion: 45 Resp: 1080619
 Ion Ratio Lower Upper
 45 100
 58 1.2 2.0 3.0#

Manual Integrations
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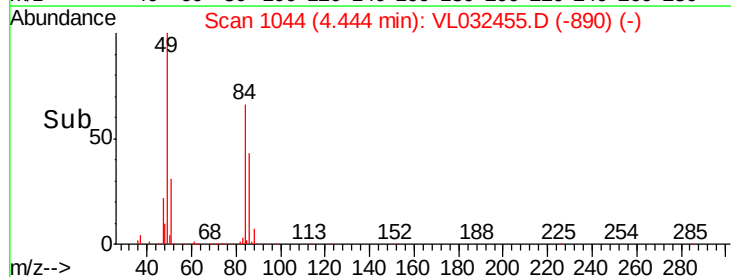
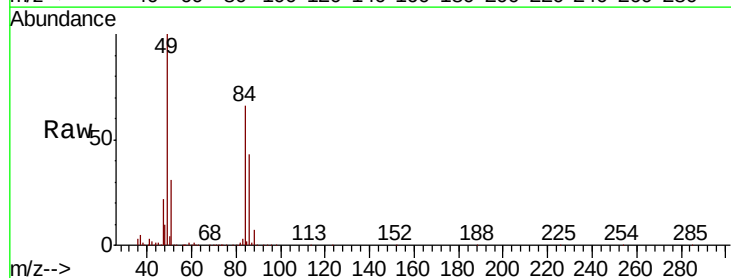
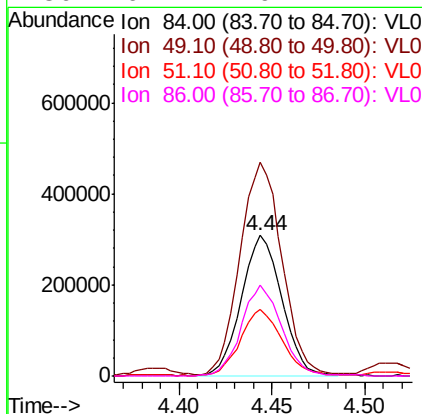
MMDadoda
 9/7/2018 10:45:49 AM

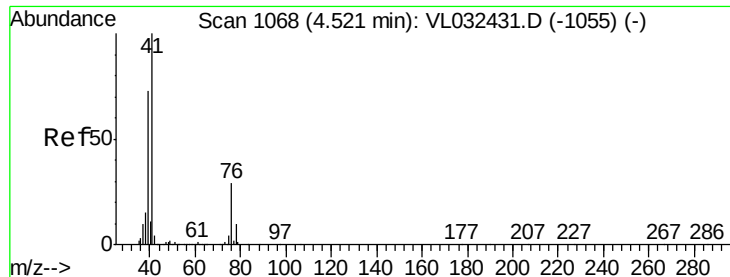


#20

Methylene Chloride
 Concen: 8.94 ppbv
 RT: 4.44 min Scan# 1044
 Delta R.T. -0.01 min
 Lab File: VL032455.D
 Acq: 5 Sep 2018 13:22

Tgt Ion: 84 Resp: 468484
 Ion Ratio Lower Upper
 84 100
 49 150.9 119.1 178.7
 51 46.9 35.2 52.8
 86 64.7 49.4 74.2





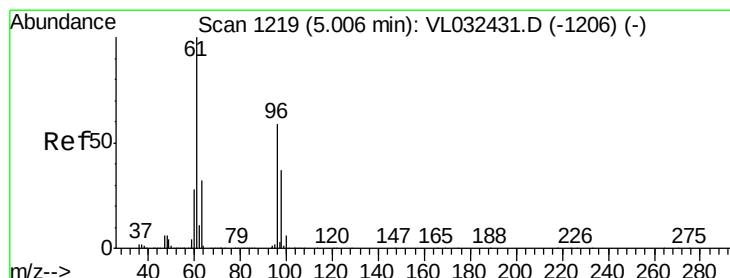
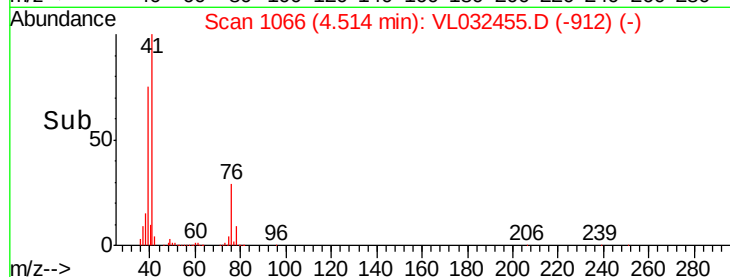
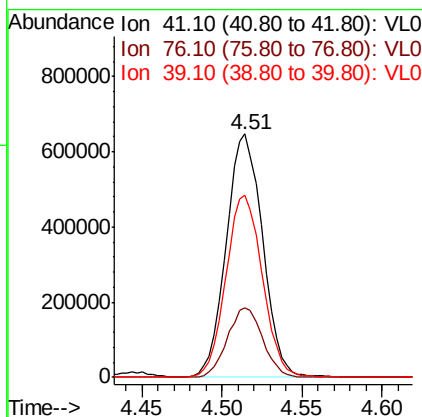
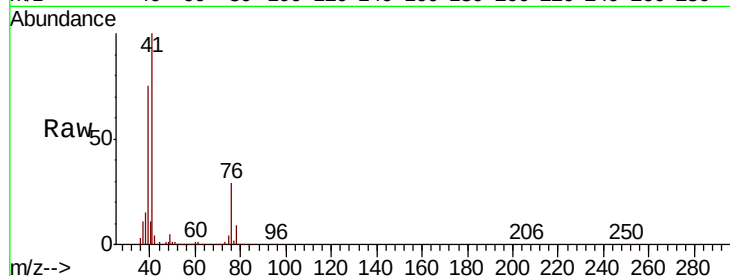
#21
Allvl Chloride
Concen: 10.85 ppbv
RT: 4.51 min Scan# 1066
Delta R.T. -0.01 min
Lab File: VL032455.D
Acq: 5 Sep 2018 13:22

Instrument :
MSVOA_L
ClientSampleId :
VL0905ABS01

Tot Ion	Ratio	Resp	Lower	Upper
41	100	990799		
76	28.3		23.6	35.4
39	76.2		57.7	86.5

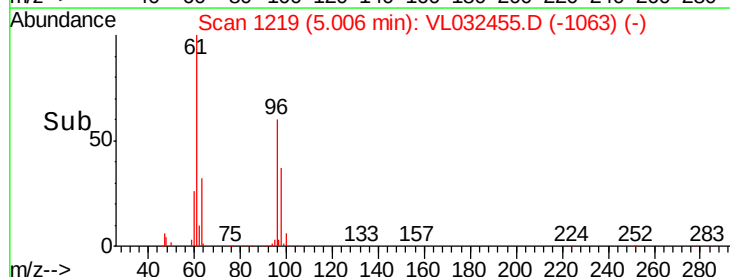
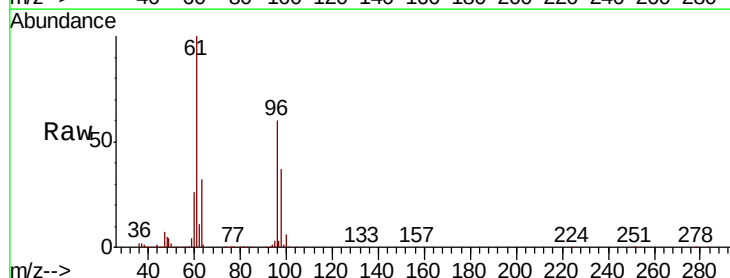
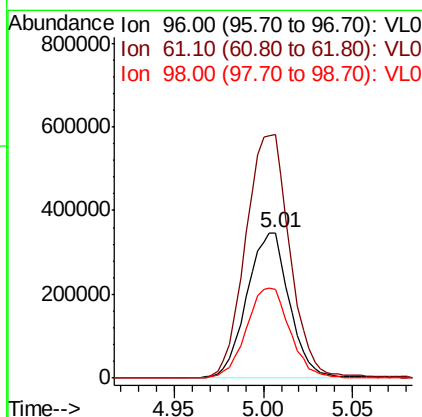
Manual Integrations
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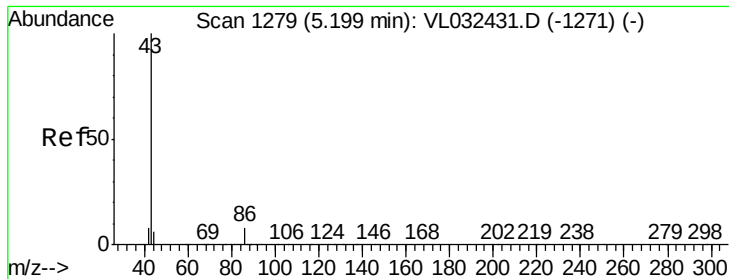
MMDadoda
9/7/2018 10:45:49 AM



#22
trans-1,2-Dichloroethene
Concen: 9.75 ppbv
RT: 5.01 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VL032455.D
Acq: 5 Sep 2018 13:22

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	577077		
61	167.1		136.2	204.4
98	61.1		50.4	75.6





#23

Vinyl Acetate

Concen: 13.07 ppbv

RT: 5.19 min Scan# 1277

Delta R.T. -0.01 min

Lab File: VL032455.D

Acq: 5 Sep 2018 13:22

Instrument :

MSVOA_L

ClientSampleId :

VL0905ABS01

Tot Ion: 43 Resp: 2977417

Ion Ratio Lower Upper

43 100

86 7.0 5.9 8.9

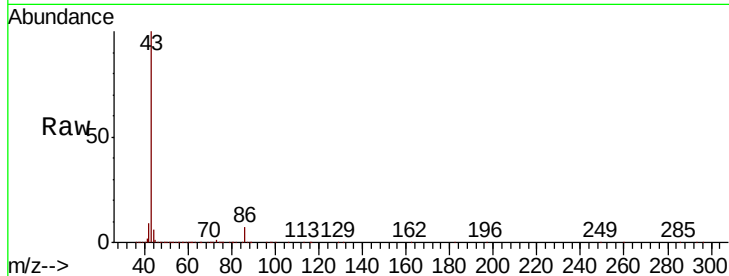
42 8.9 6.9 10.3

44 5.2 4.6 7.0

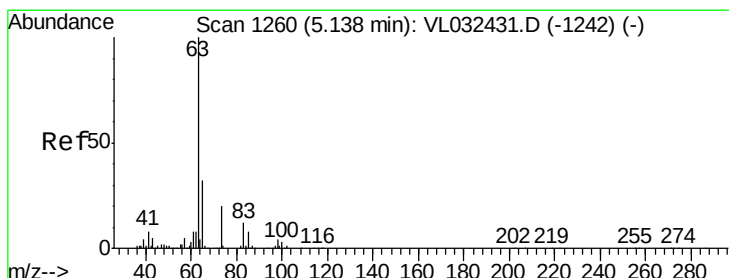
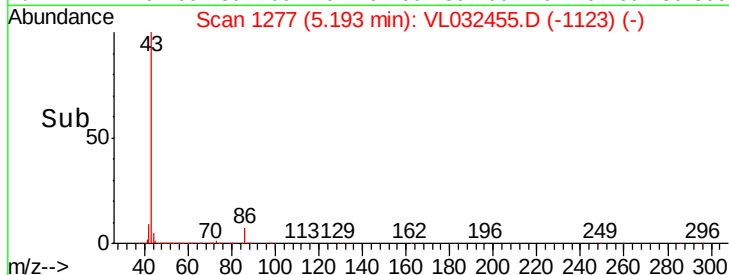
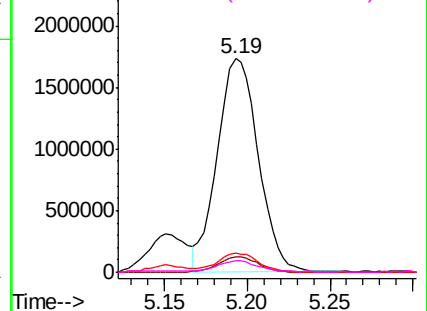
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 9.46 ppbv

RT: 5.13 min Scan# 1258

Delta R.T. -0.01 min

Lab File: VL032455.D

Acq: 5 Sep 2018 13:22

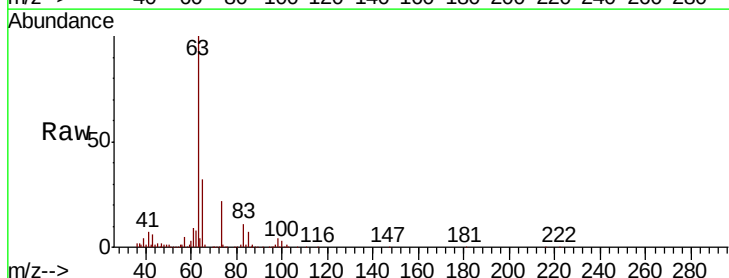
Tgt Ion: 63 Resp: 1776060

Ion Ratio Lower Upper

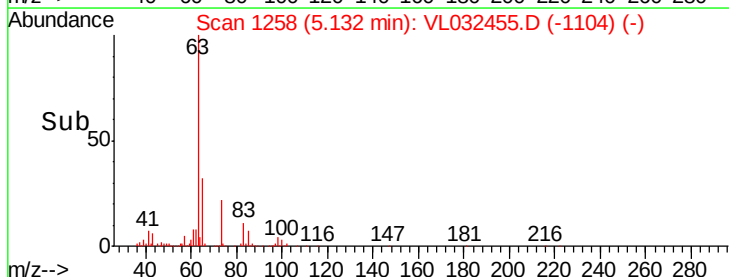
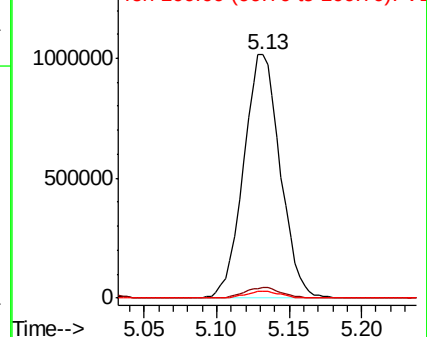
63 100

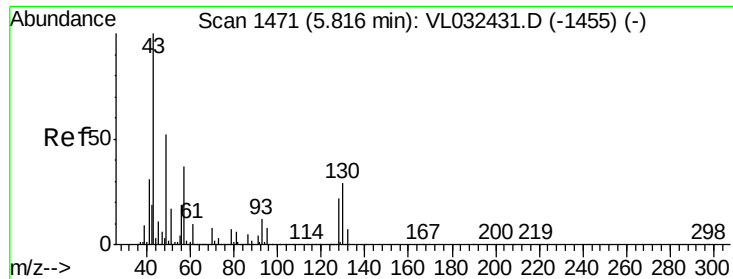
98 4.4 2.1 6.5

100 2.7 1.5 4.4



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





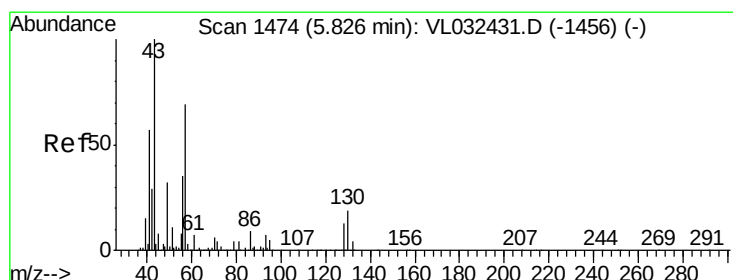
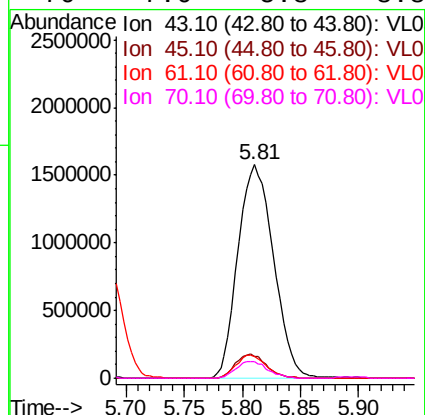
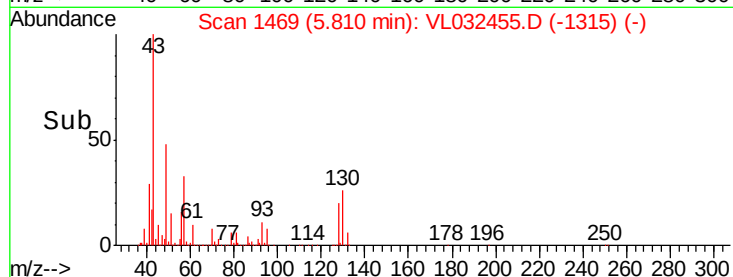
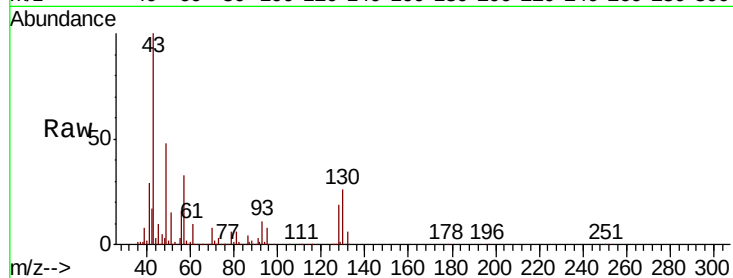
#25
Ethyl Acetate
Concen: 10.37 ppbv
RT: 5.81 min Scan# 1469
Delta R.T. -0.01 min
Lab File: VL032455.D
Acq: 5 Sep 2018 13:22

Instrument :
MSVOA_L
ClientSampleId :
VL0905ABS01

Tot Ion	Ratio	Lower	Upper
43	100		
45	9.9	8.0	12.0
61	9.2	7.6	11.4
70	7.0	5.8	8.8

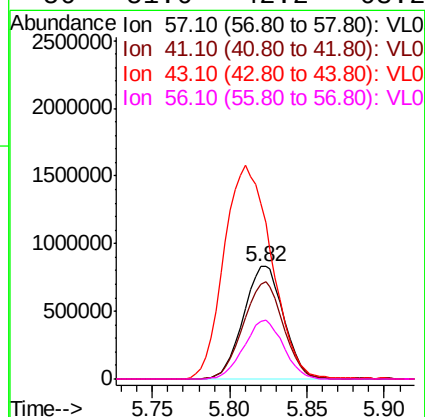
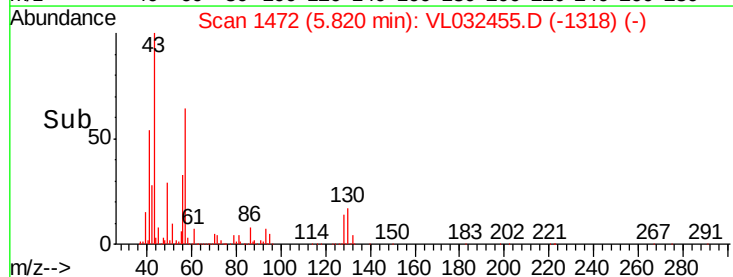
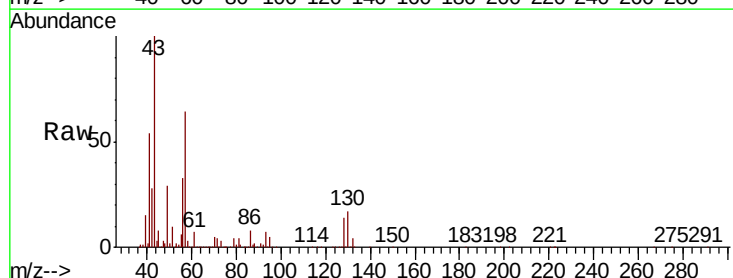
Manual Integrations
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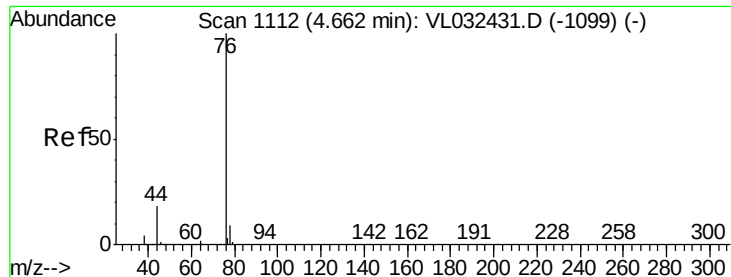
MMDadoda
9/7/2018 10:45:49 AM



#26
Hexane
Concen: 10.31 ppbv
RT: 5.82 min Scan# 1472
Delta R.T. -0.01 min
Lab File: VL032455.D
Acq: 5 Sep 2018 13:22

Tgt Ion	Ratio	Lower	Upper
57	100		
41	86.8	69.0	103.4
43	225.5	172.1	258.1
56	51.6	42.2	63.2





#27

Carbon Disulfide

Concen: 11.39 ppbv

RT: 4.66 min Scan# 1110

Delta R.T. -0.01 min

Lab File: VL032455.D

Acq: 5 Sep 2018 13:22

Instrument :

MSVOA_L

ClientSampleId :

VL0905ABS01

Tot Ion: 76 Resp: 1527864

Ion Ratio Lower Upper

76 100

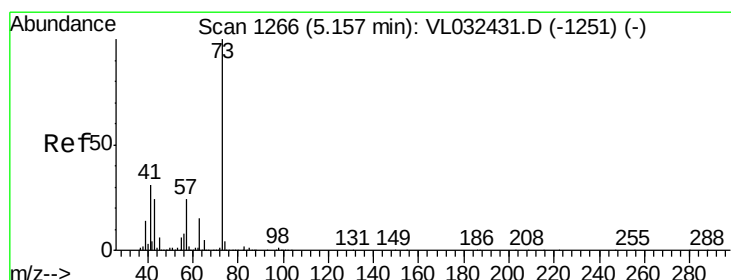
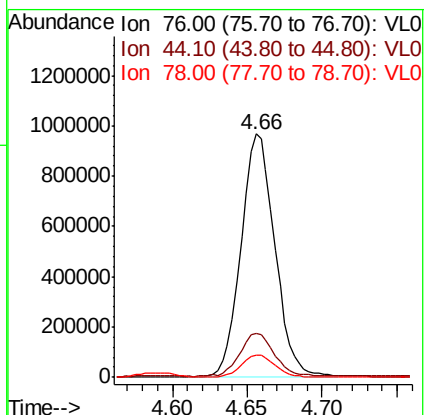
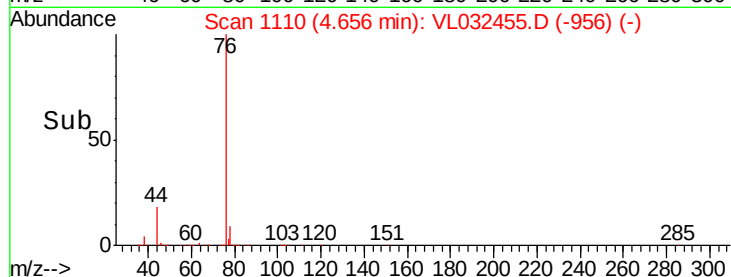
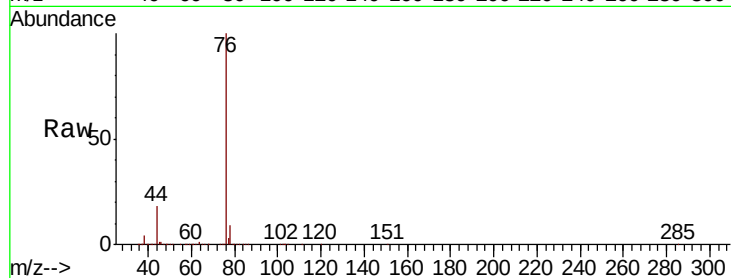
44 18.4 14.0 21.0

78 9.3 7.5 11.3

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#28

Methyl tert-Butyl Ether

Concen: 12.32 ppbv

RT: 5.15 min Scan# 1264

Delta R.T. -0.01 min

Lab File: VL032455.D

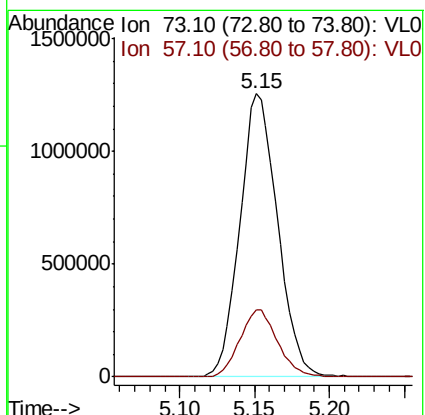
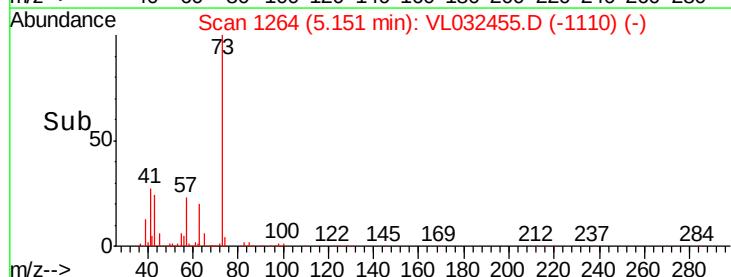
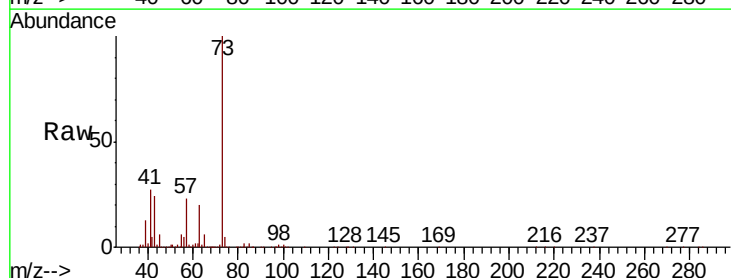
Acq: 5 Sep 2018 13:22

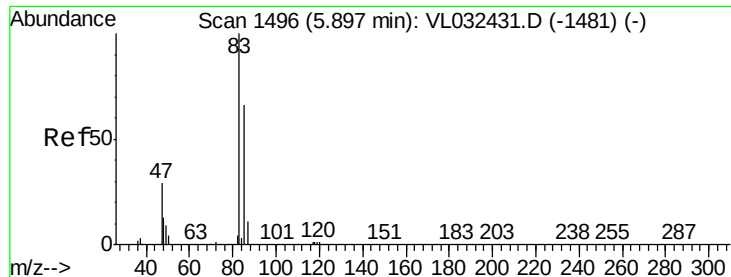
Tgt Ion: 73 Resp: 2198837

Ion Ratio Lower Upper

73 100

57 23.8 19.3 28.9





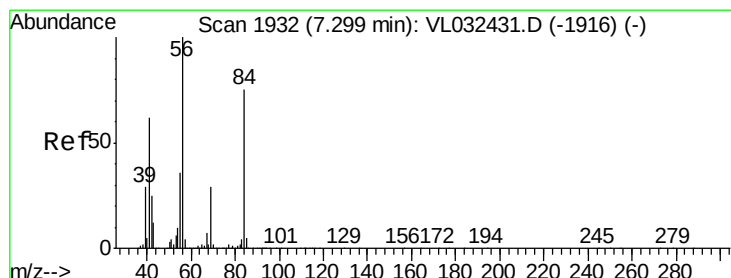
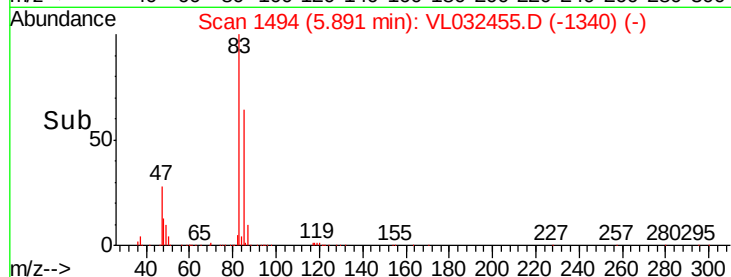
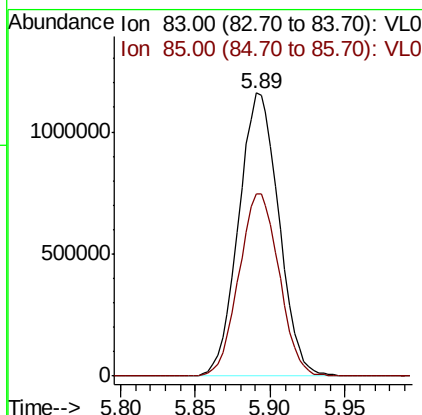
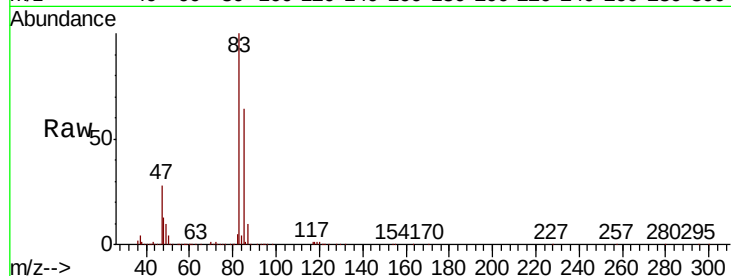
#29
Chloroform
Concen: 9.76 ppbv
RT: 5.89 min Scan# 1494
Delta R.T. -0.01 min
Lab File: VL032455.D
Acq: 5 Sep 2018 13:22

Instrument :
MSVOA_L
ClientSampleId :
VL0905ABS01

Tot Ion: 83 Resp: 2163580
Ion Ratio Lower Upper
83 100
85 64.1 52.5 78.7

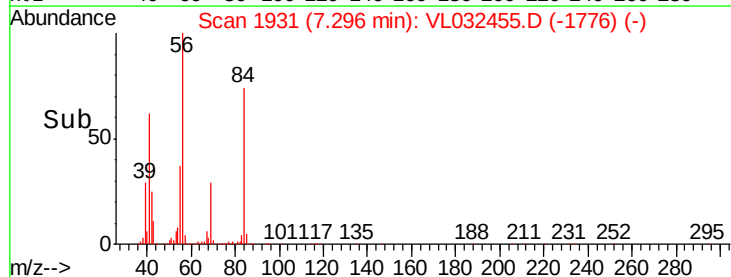
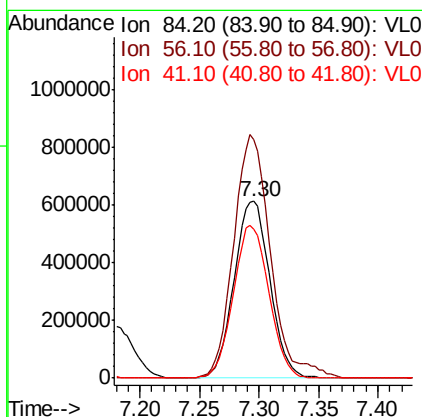
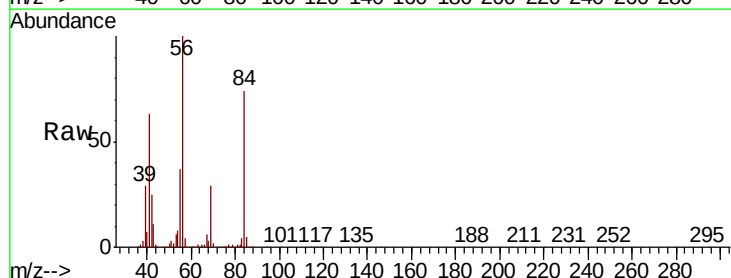
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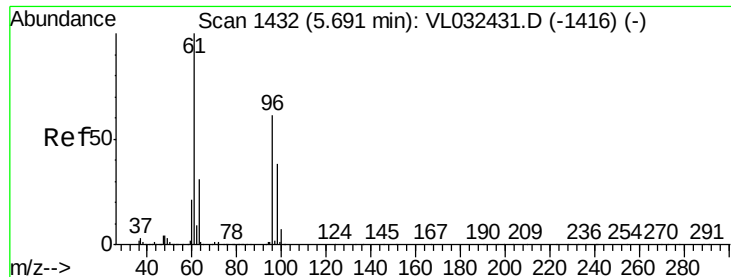
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#30
Cyclohexane
Concen: 12.01 ppbv
RT: 7.30 min Scan# 1931
Delta R.T. -0.00 min
Lab File: VL032455.D
Acq: 5 Sep 2018 13:22

Tgt Ion: 84 Resp: 1278030
Ion Ratio Lower Upper
84 100
56 141.9 113.5 170.3
41 86.0 68.1 102.1





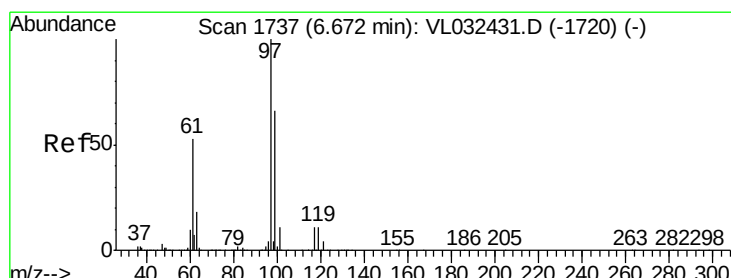
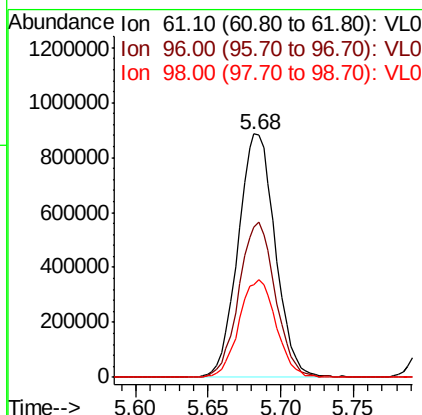
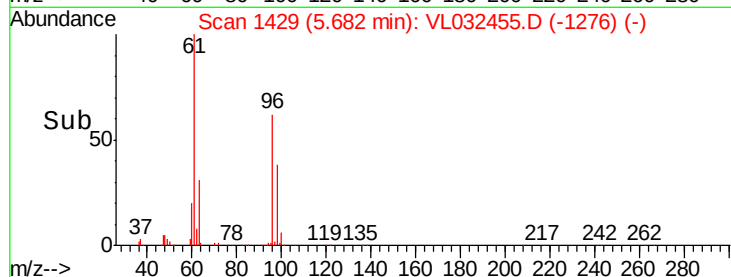
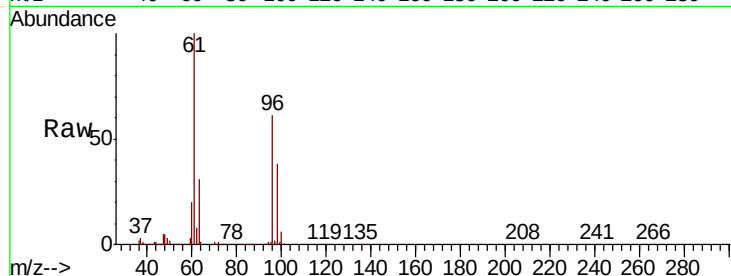
#31
 cis-1,2-Dichloroethene
 Concen: 11.97 ppbv
 RT: 5.68 min Scan# 1429
 Delta R.T. -0.01 min
 Lab File: VL032455.D
 Acq: 5 Sep 2018 13:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0905ABS01

Tot Ion	Ratio	Lower	Upper
61	100		
96	61.5	49.2	73.8
98	38.3	30.7	46.1

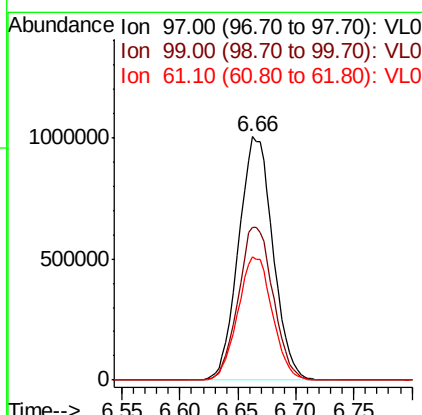
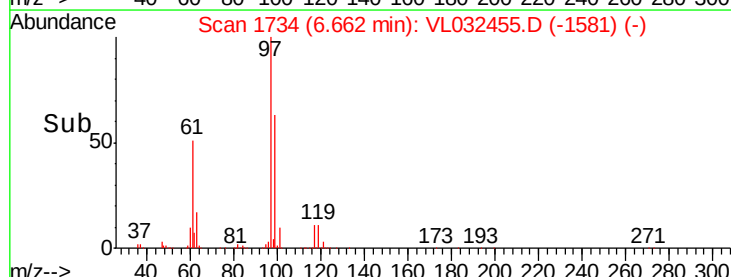
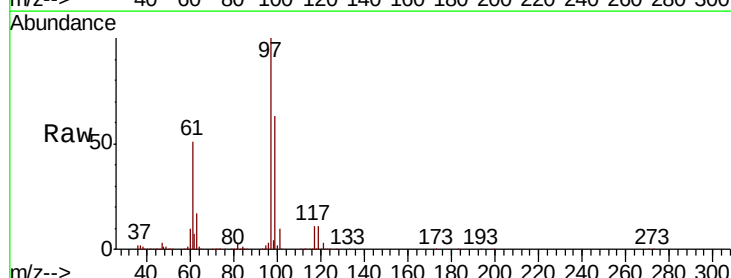
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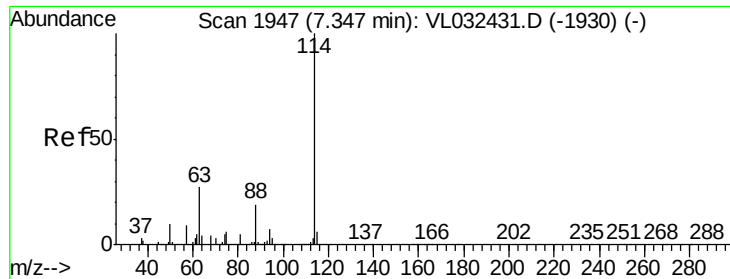
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#32
 1,1,1-Trichloroethane
 Concen: 10.01 ppbv
 RT: 6.66 min Scan# 1734
 Delta R.T. -0.01 min
 Lab File: VL032455.D
 Acq: 5 Sep 2018 13:22

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.0	52.1	78.1
61	51.0	42.5	63.7





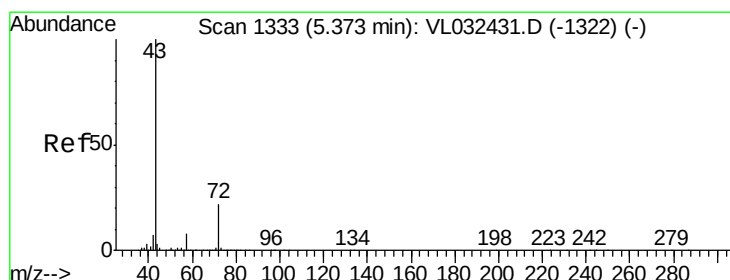
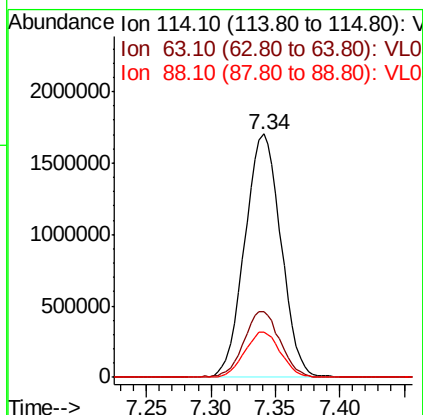
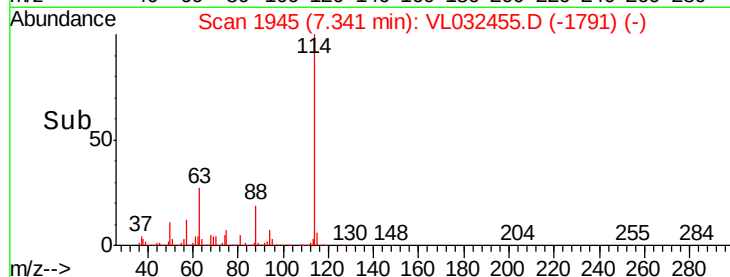
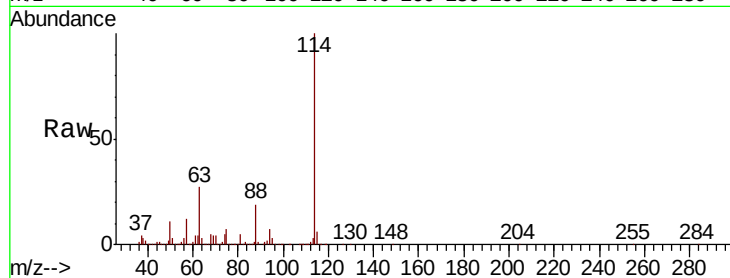
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.34 min Scan# 1945
 Delta R.T. -0.01 min
 Lab File: VL032455.D
 Acq: 5 Sep 2018 13:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0905ABS01

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.3	22.2	33.4
88	18.6	15.0	22.4

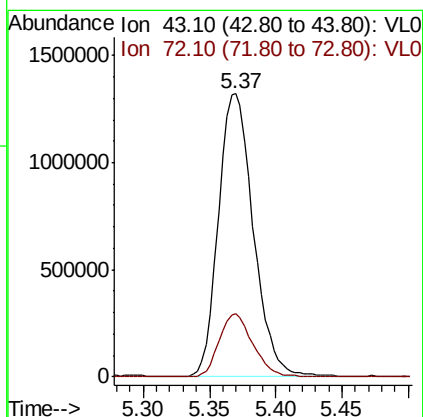
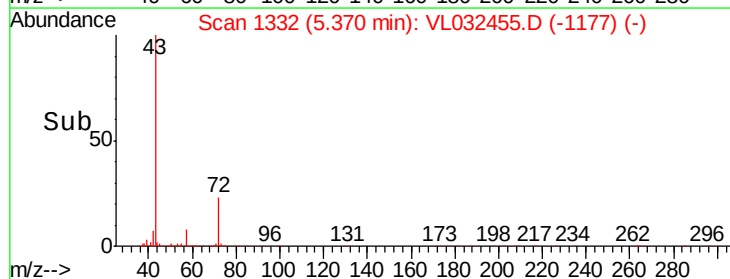
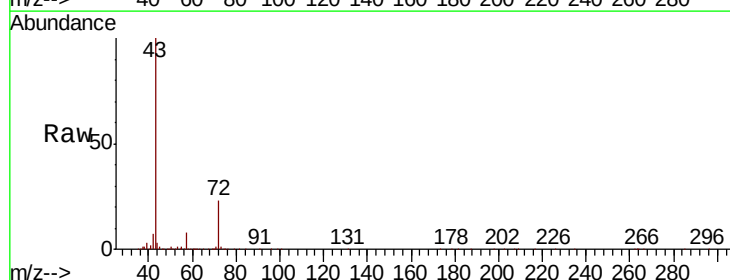
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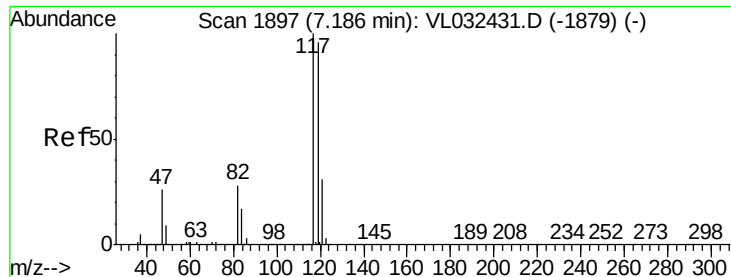
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#34
 2-Butanone
 Concen: 10.85 ppbv
 RT: 5.37 min Scan# 1332
 Delta R.T. -0.00 min
 Lab File: VL032455.D
 Acq: 5 Sep 2018 13:22

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.9	17.8	26.6





#35

Carbon Tetrachloride

Concen: 9.26 ppbv

RT: 7.18 min Scan# 1895

Delta R.T. -0.01 min

Lab File: VL032455.D

Acq: 5 Sep 2018 13:22

Instrument :

MSVOA_L

ClientSampleId :

VL0905ABS01

Tot Ion: 117 Resp: 2072940

Ion Ratio Lower Upper

117 100

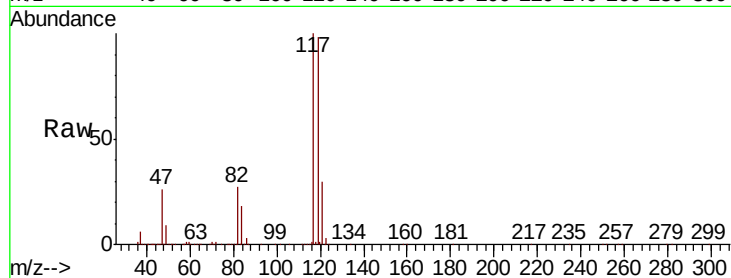
119 98.2 76.6 115.0

121 30.0 24.6 36.8

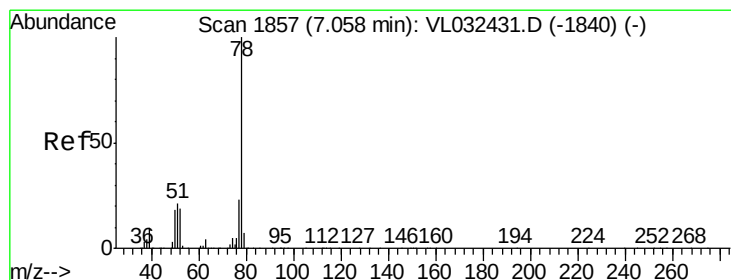
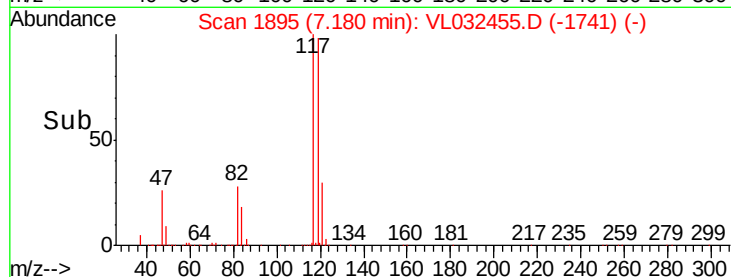
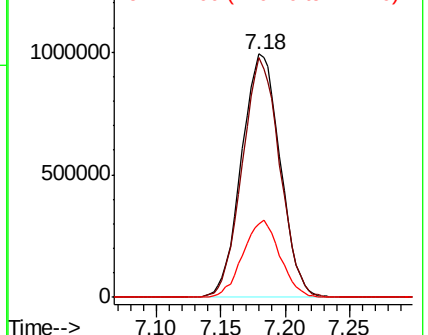
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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.79 ppbv

RT: 7.05 min Scan# 1856

Delta R.T. -0.00 min

Lab File: VL032455.D

Acq: 5 Sep 2018 13:22

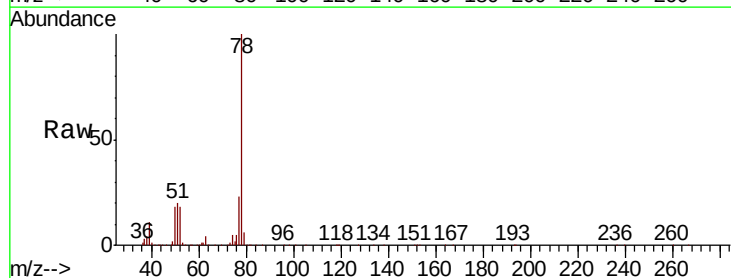
Tgt Ion: 78 Resp: 3058120

Ion Ratio Lower Upper

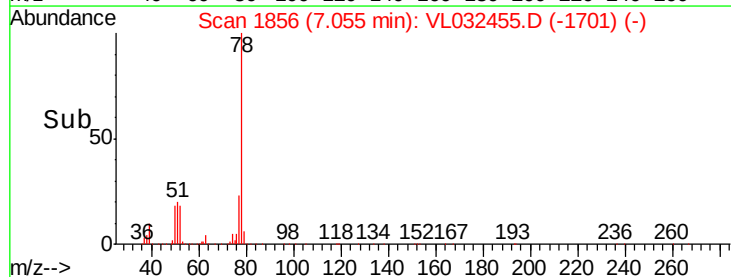
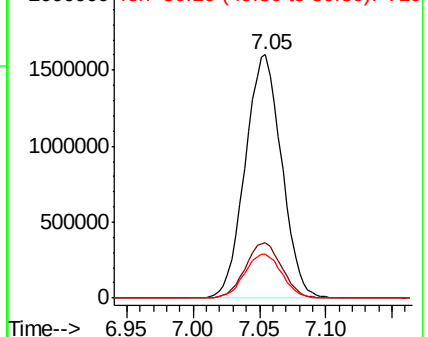
78 100

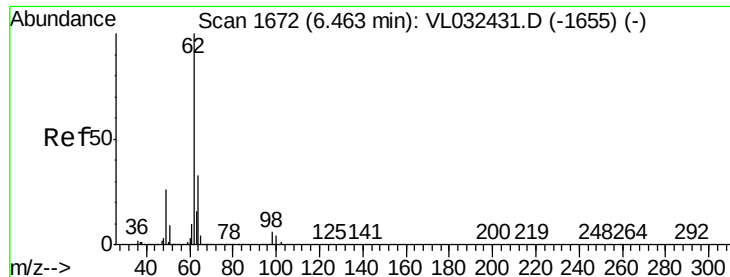
77 22.7 18.4 27.6

50 18.1 14.4 21.6



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





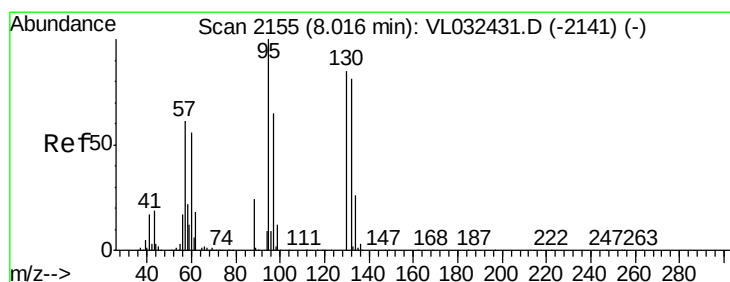
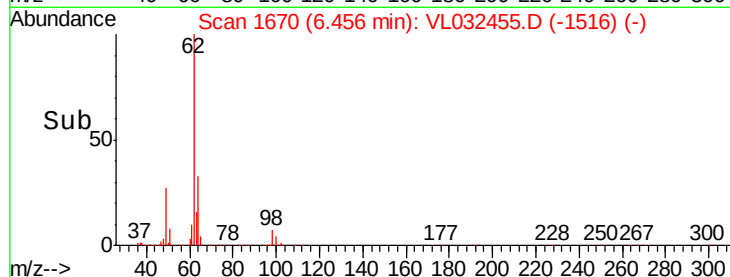
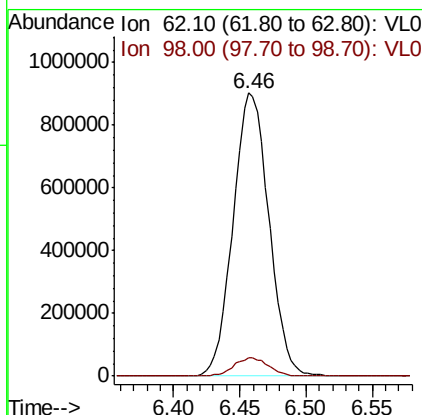
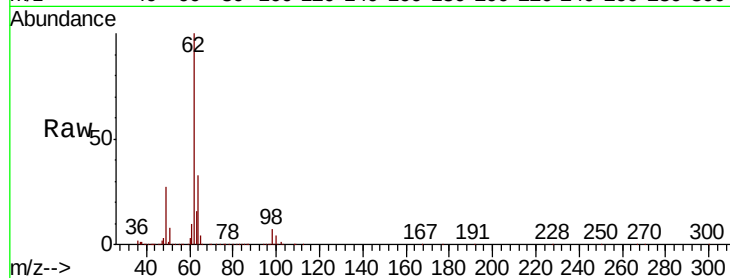
#37
 1,2-Dichloroethane
 Concen: 9.77 ppbv
 RT: 6.46 min Scan# 1670
 Delta R.T. -0.01 min
 Lab File: VL032455.D
 Acq: 5 Sep 2018 13:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0905ABS01

Tot Ion: 62 Resp: 1696347
 Ion Ratio Lower Upper
 62 100
 98 6.4 5.0 7.6

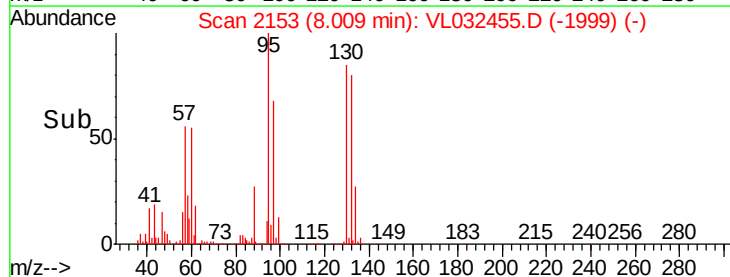
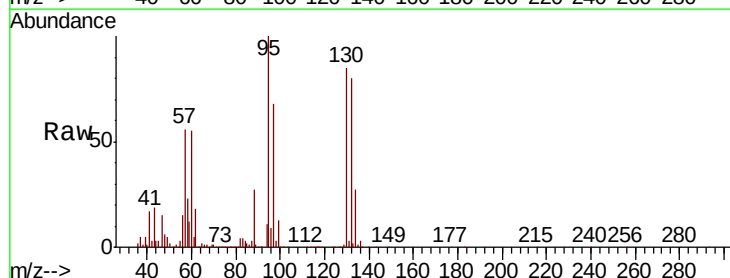
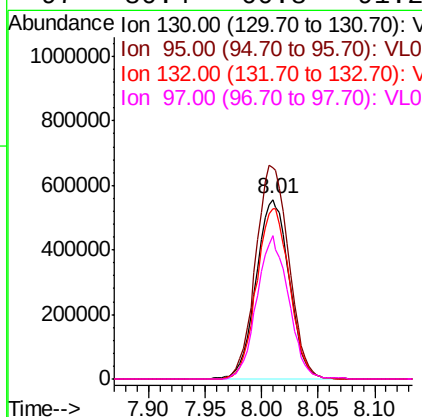
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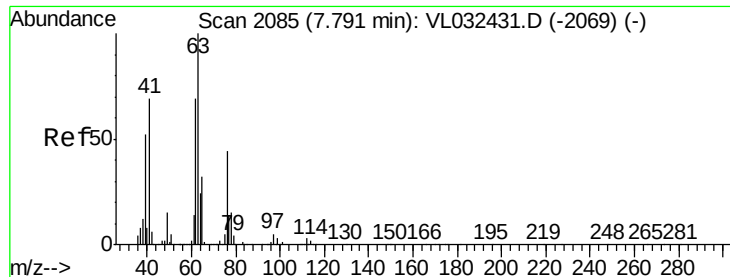
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#38
 Trichloroethene
 Concen: 10.48 ppbv
 RT: 8.01 min Scan# 2153
 Delta R.T. -0.01 min
 Lab File: VL032455.D
 Acq: 5 Sep 2018 13:22

Tgt Ion:130 Resp: 1127740
 Ion Ratio Lower Upper
 130 100
 95 118.1 94.2 141.4
 132 95.0 76.2 114.4
 97 80.4 60.8 91.2





#39

1,2-Dichloropropane

Concen: 11.22 ppbv

RT: 7.78 min Scan# 2083

Delta R.T. -0.01 min

Lab File: VL032455.D

Acq: 5 Sep 2018 13:22

Instrument :

MSVOA_L

ClientSampleId :

VL0905ABS01

Tot Ion: 63 Resp: 1360685

Ion Ratio Lower Upper

63 100

41 67.7 55.4 83.0

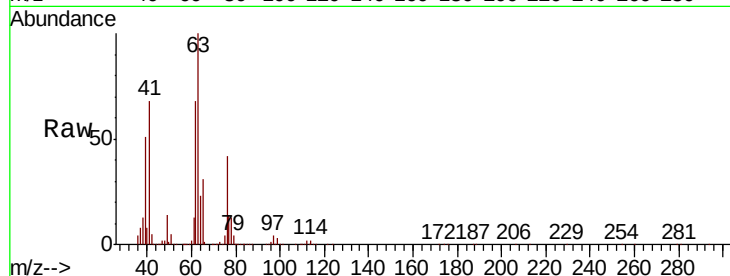
62 68.3 55.4 83.0

Manual Integrations

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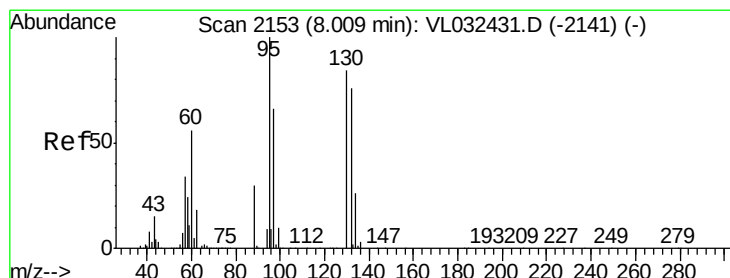
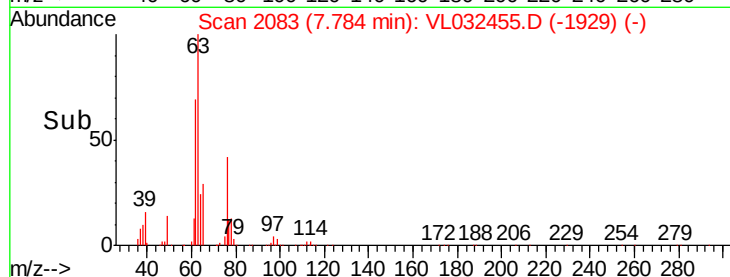
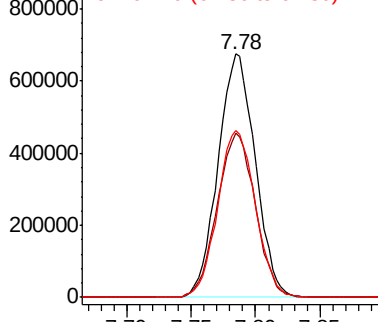
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Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0



#40

1,4-Dioxane

Concen: 12.20 ppbv

RT: 8.00 min Scan# 2151

Delta R.T. -0.01 min

Lab File: VL032455.D

Acq: 5 Sep 2018 13:22

Tgt Ion: 88 Resp: 443861

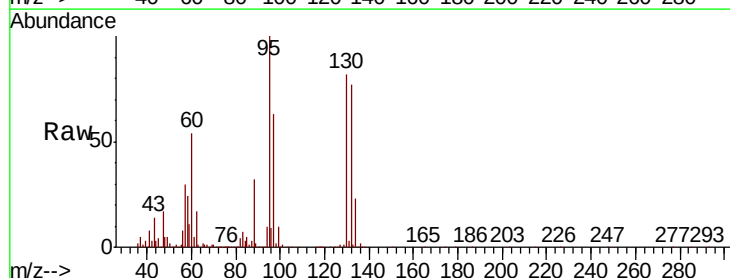
Ion Ratio Lower Upper

88 100

58 142.2 119.7 179.5

43 0.0 253.0 379.4#

57 0.0 1156.9 1735.3#

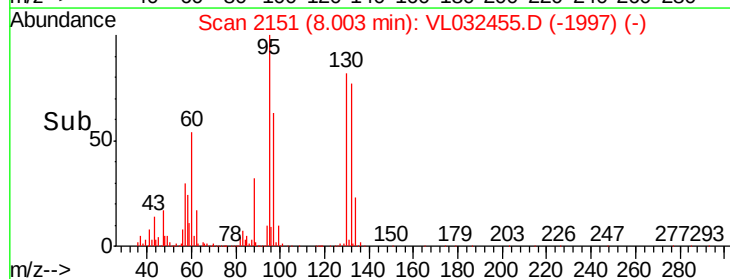
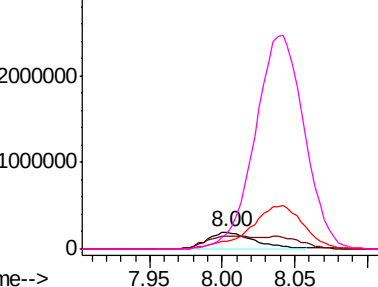


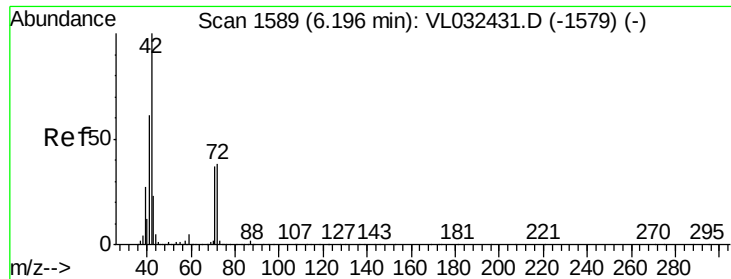
Abundance Ion 88.10 (87.80 to 88.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





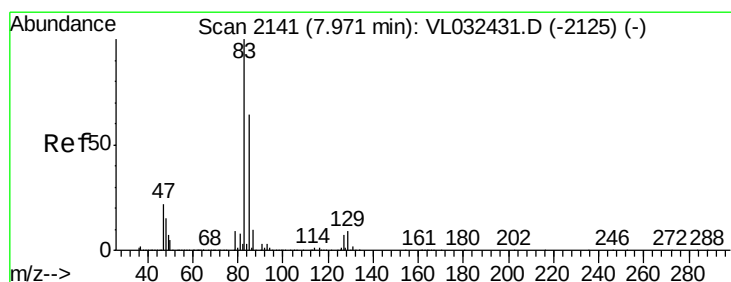
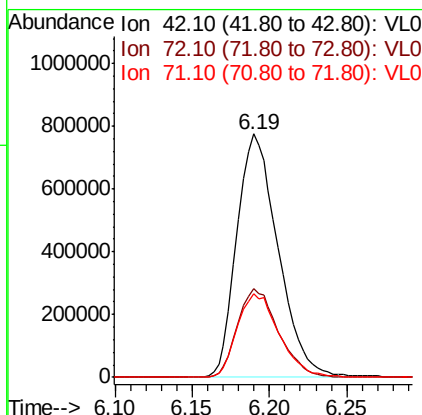
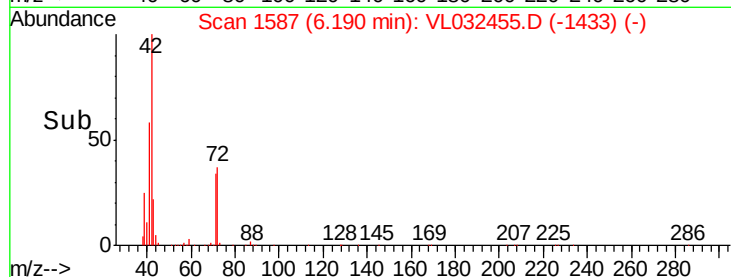
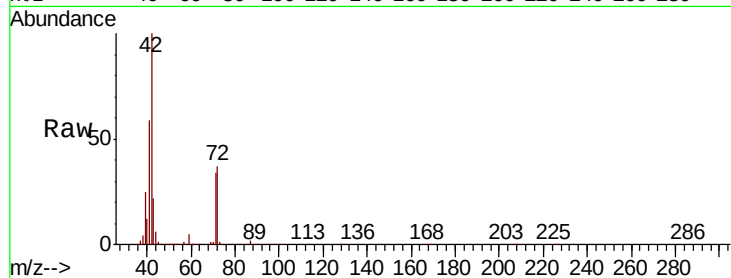
#41
Tetrahydrofuran
Concen: 11.90 ppbv
RT: 6.19 min Scan# 1587
Delta R.T. -0.01 min
Lab File: VL032455.D
Acq: 5 Sep 2018 13:22

Instrument :
MSVOA_L
ClientSampleId :
VL0905ABS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.6	29.5	44.3
71	35.3	28.3	42.5

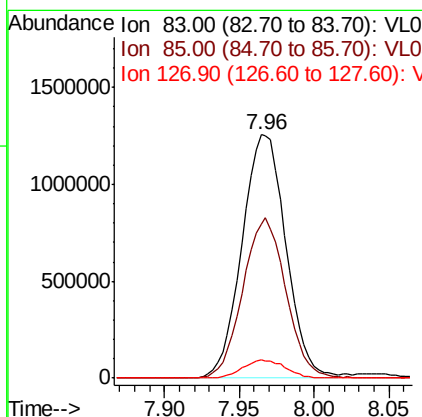
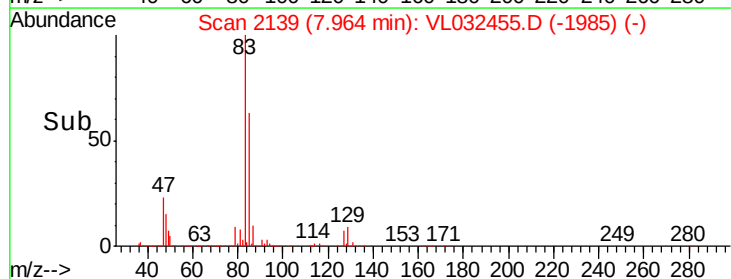
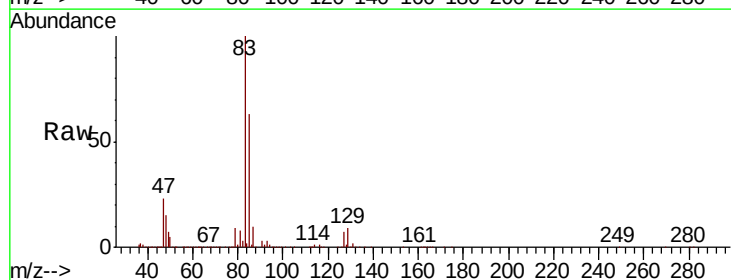
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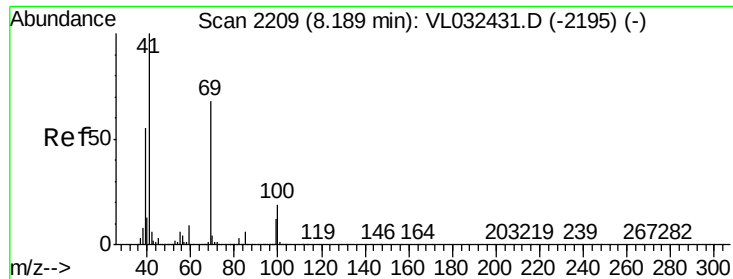
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#42
Bromodichloromethane
Concen: 10.72 ppbv
RT: 7.96 min Scan# 2139
Delta R.T. -0.01 min
Lab File: VL032455.D
Acq: 5 Sep 2018 13:22

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.3	51.1	76.7
127	7.3	5.8	8.8





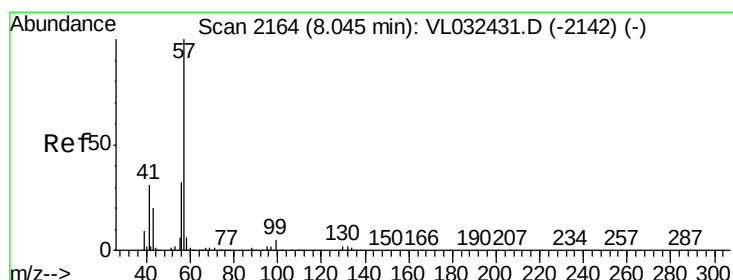
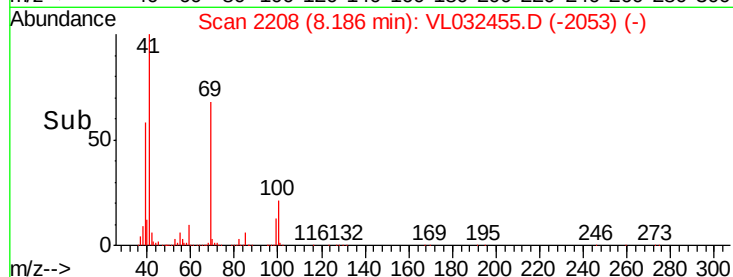
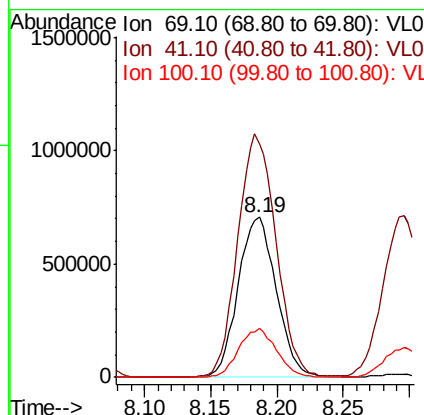
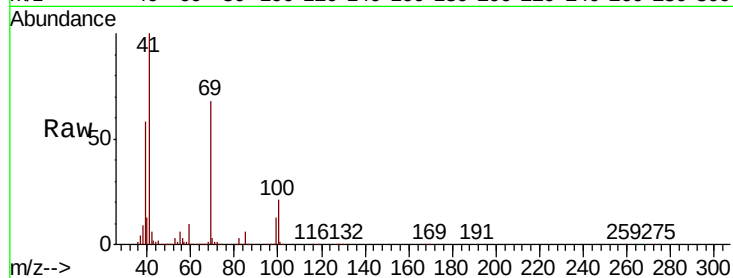
#43
Methyl Methacrylate
Concen: 11.78 ppbv
RT: 8.19 min Scan# 2208
Delta R.T. -0.00 min
Lab File: VL032455.D
Acq: 5 Sep 2018 13:22

Instrument :
MSVOA_L
ClientSampleId :
VL0905ABS01

Tot Ion	Ratio	Lower	Upper
69	100		
41	152.1	117.1	175.7
100	30.2	23.4	35.2

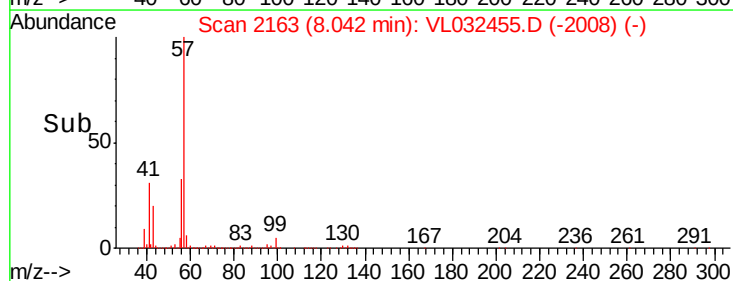
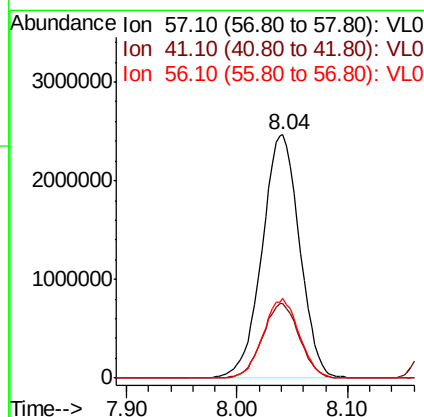
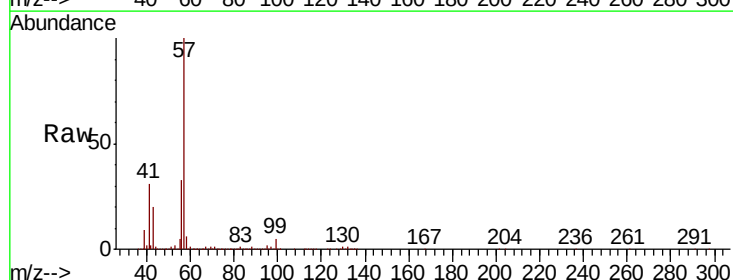
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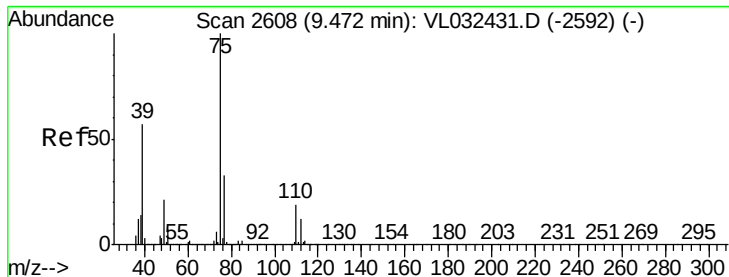
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#44
2,2,4-Trimethylpentane
Concen: 10.65 ppbv
RT: 8.04 min Scan# 2163
Delta R.T. -0.00 min
Lab File: VL032455.D
Acq: 5 Sep 2018 13:22

Tgt Ion	Ratio	Lower	Upper
57	100		
41	30.2	24.4	36.6
56	31.6	25.7	38.5





#45

t-1,3-Dichloropropene

Concen: 13.48 ppbv

RT: 9.47 min Scan# 2606

Delta R.T. -0.01 min

Lab File: VL032455.D

Acq: 5 Sep 2018 13:22

Instrument :

MSVOA_L

ClientSampleId :

VL0905ABS01

Tot Ion: 75 Resp: 1733718

Ion Ratio Lower Upper

75 100

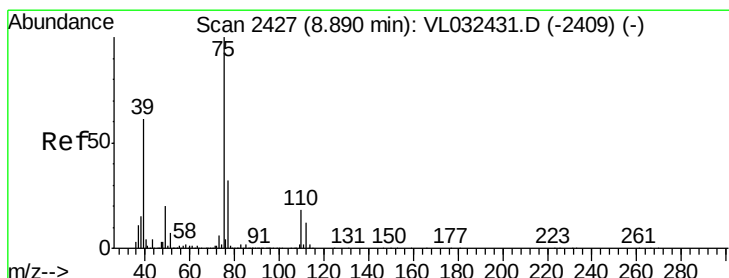
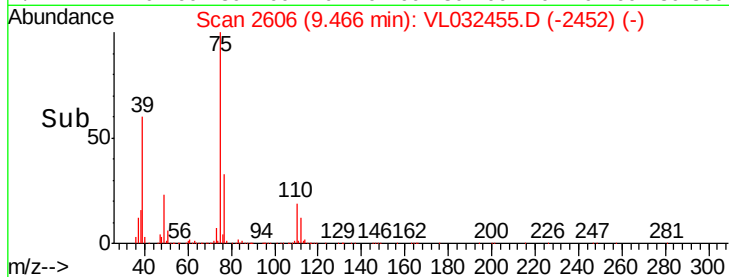
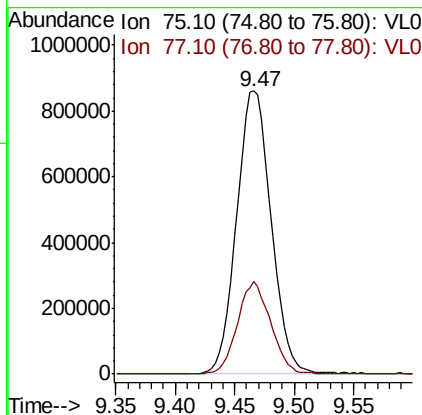
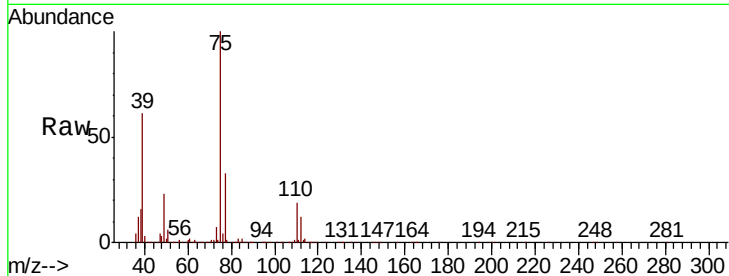
77 32.5 26.2 39.2

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#46

cis-1,3-Dichloropropene

Concen: 12.68 ppbv

RT: 8.89 min Scan# 2426

Delta R.T. -0.00 min

Lab File: VL032455.D

Acq: 5 Sep 2018 13:22

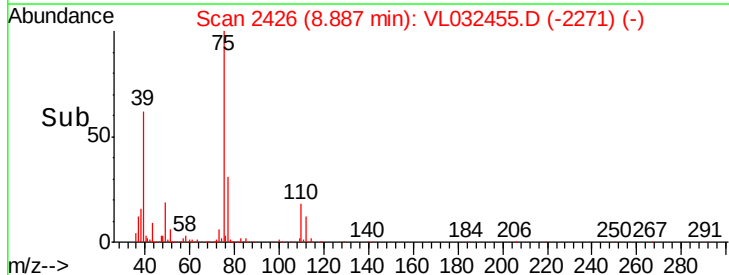
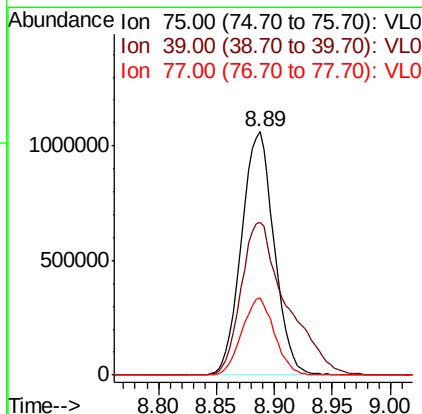
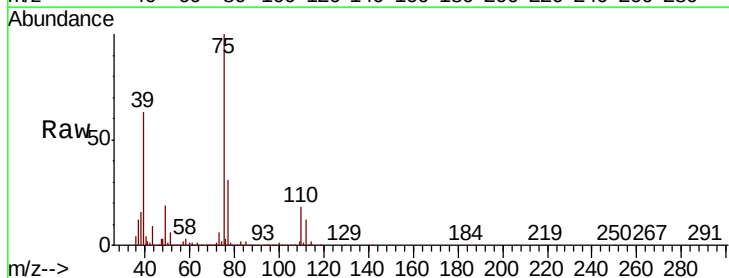
Tgt Ion: 75 Resp: 2083306

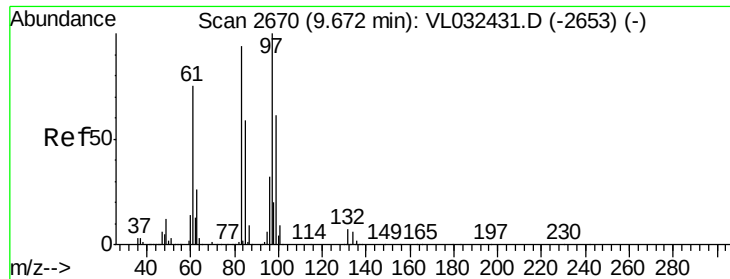
Ion Ratio Lower Upper

75 100

39 62.5 48.9 73.3

77 31.5 25.4 38.0





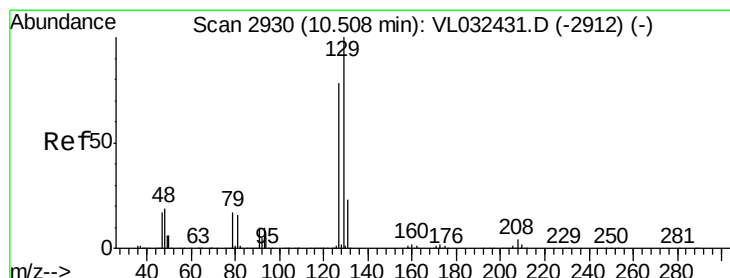
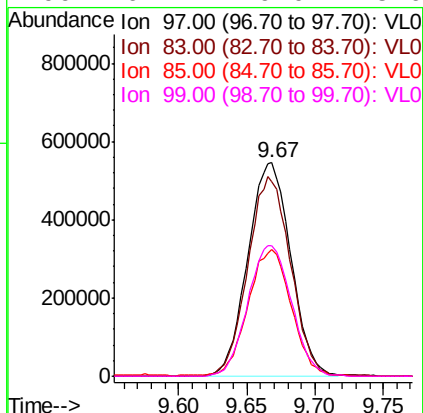
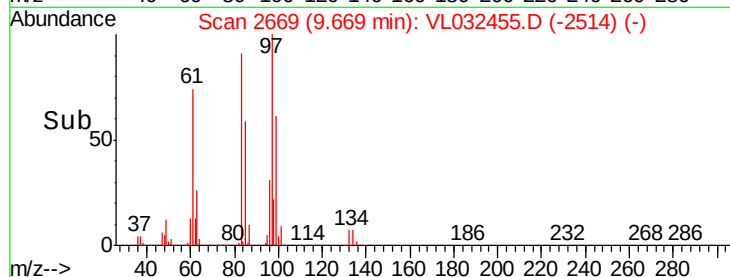
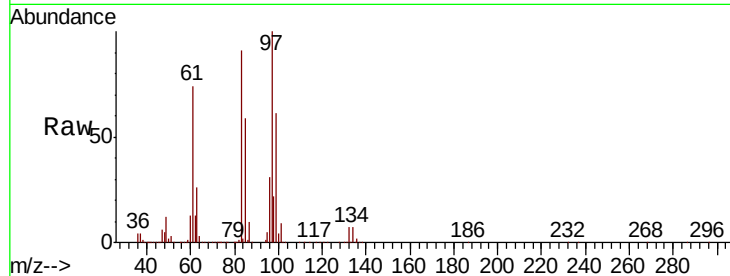
#47
 1,1,2-Trichloroethane
 Concen: 9.27 ppbv
 RT: 9.67 min Scan# 2669
 Delta R.T. -0.00 min
 Lab File: VL032455.D
 Acq: 5 Sep 2018 13:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0905ABS01

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	91.4	75.0	112.4	
85	58.9	47.5	71.3	
99	61.2	49.0	73.6	

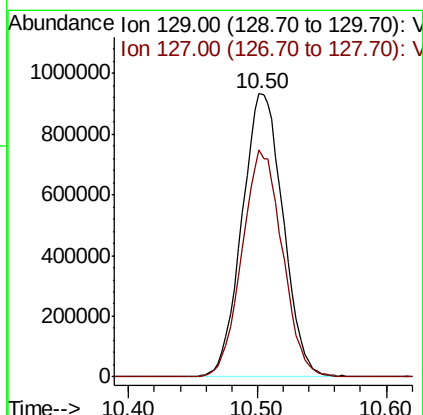
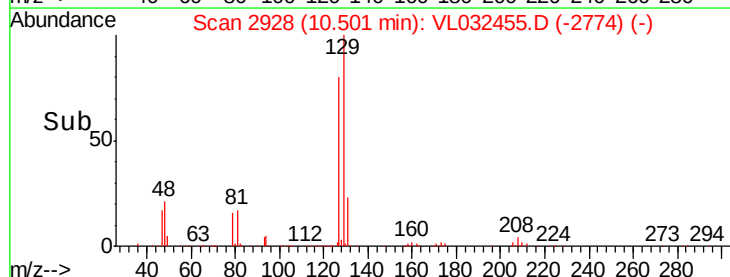
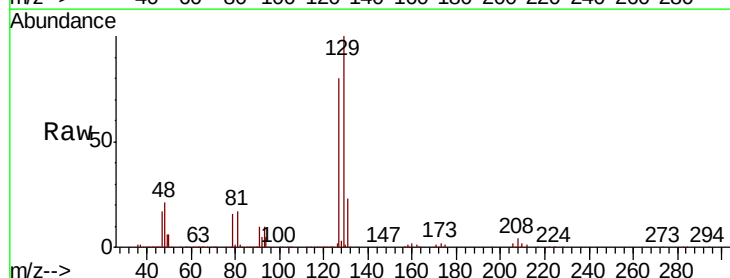
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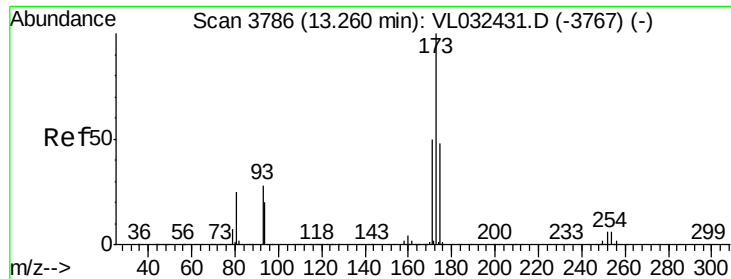
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#48
 Dibromochloromethane
 Concen: 11.57 ppbv
 RT: 10.50 min Scan# 2928
 Delta R.T. -0.01 min
 Lab File: VL032455.D
 Acq: 5 Sep 2018 13:22

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.9	39.5	118.3	





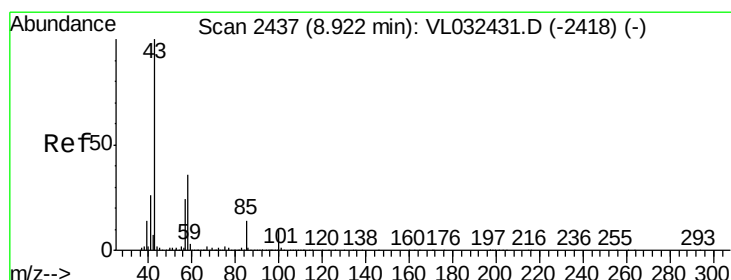
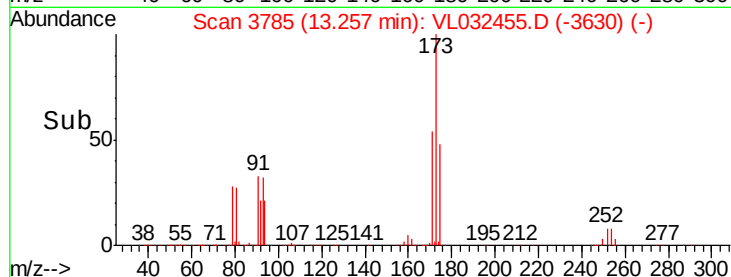
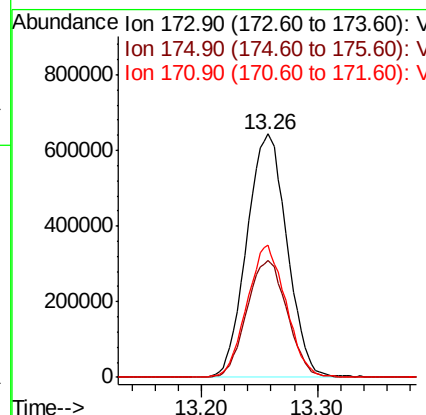
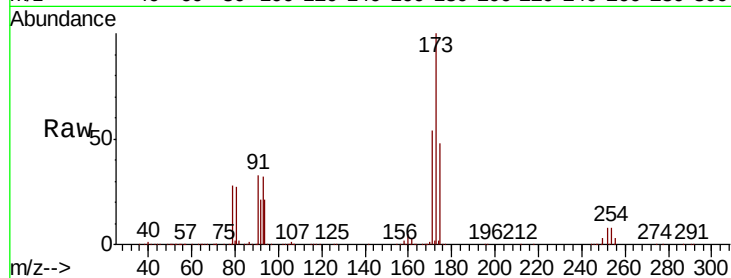
#49
Bromoform
Concen: 10.02 ppbv
RT: 13.26 min Scan# 3785
Delta R.T. -0.00 min
Lab File: VL032455.D
Acq: 5 Sep 2018 13:22

Instrument :
MSVOA_L
ClientSampleId :
VL0905ABS01

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.4	38.9	58.3
171	52.4	41.6	62.4

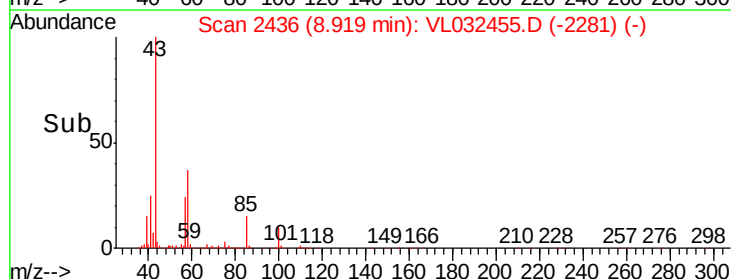
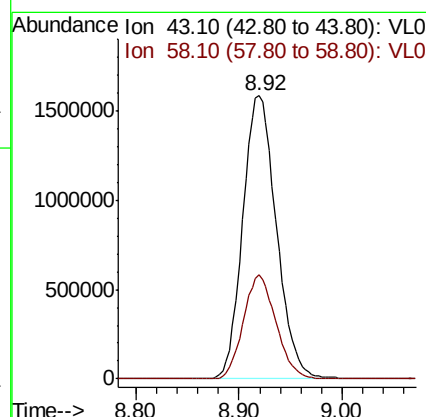
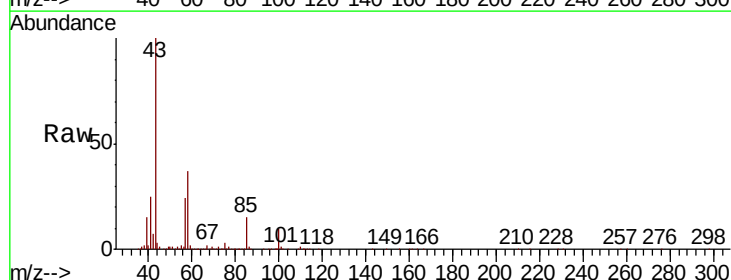
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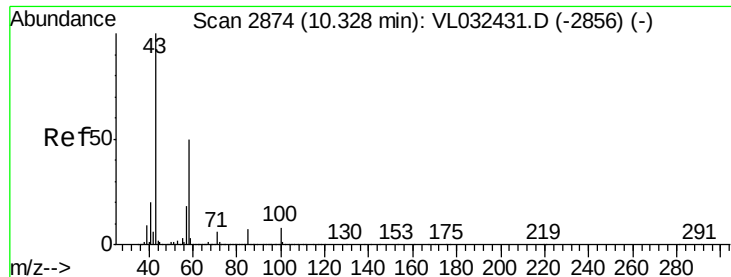
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#50
4-Methyl-2-Pentanone
Concen: 10.78 ppbv
RT: 8.92 min Scan# 2436
Delta R.T. -0.00 min
Lab File: VL032455.D
Acq: 5 Sep 2018 13:22

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.8	29.0	43.4





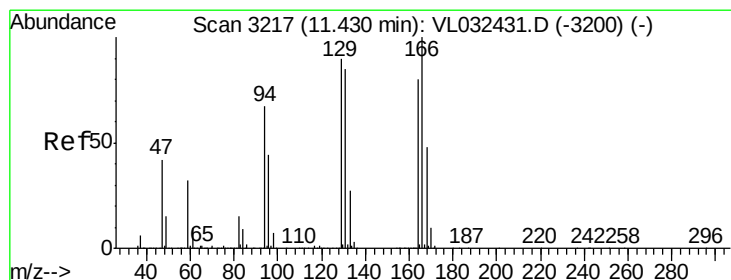
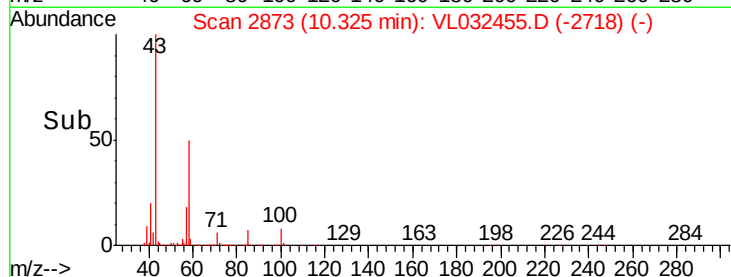
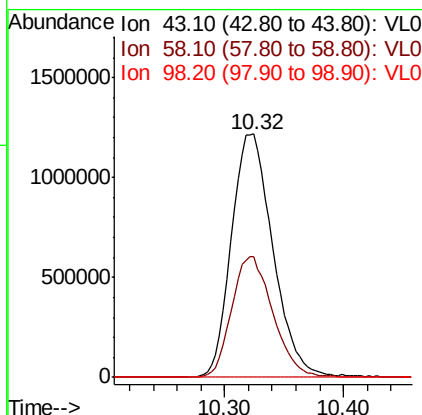
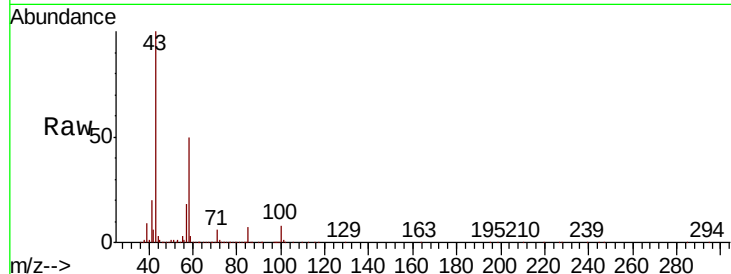
#51
2-Hexanone
Concen: 13.68 ppbv
RT: 10.32 min Scan# 2873
Delta R.T. -0.00 min
Lab File: VL032455.D
Acq: 5 Sep 2018 13:22

Instrument :
MSVOA_L
ClientSampleId :
VL0905ABS01

Tot Ion: 43 Resp: 2935268
Ion Ratio Lower Upper
43 100
58 49.5 39.2 58.8
98 0.1 0.4 0.6#

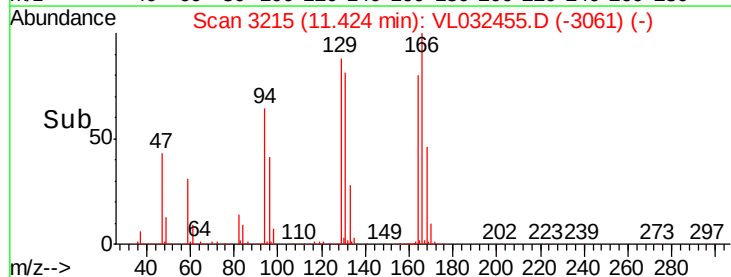
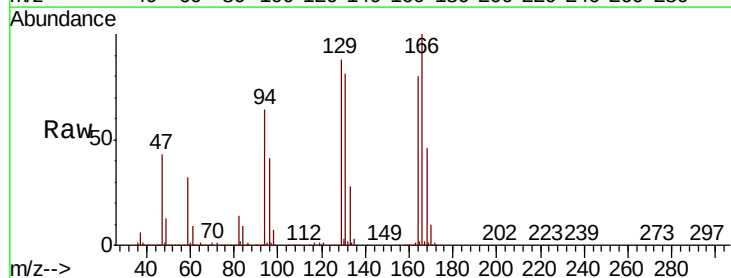
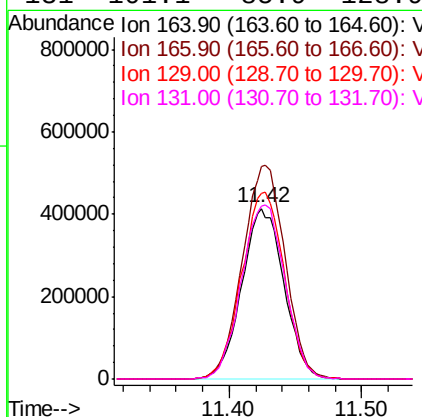
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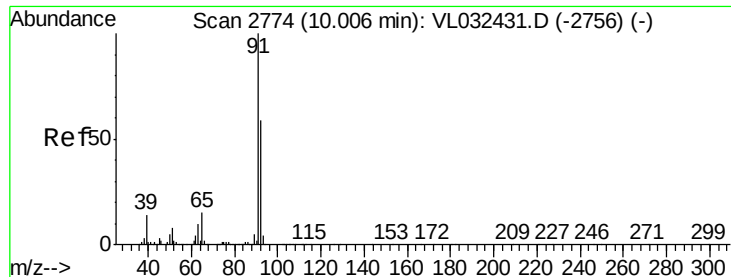
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#52
Tetrachloroethene
Concen: 10.37 ppbv
RT: 11.42 min Scan# 3215
Delta R.T. -0.01 min
Lab File: VL032455.D
Acq: 5 Sep 2018 13:22

Tgt Ion: 164 Resp: 911267
Ion Ratio Lower Upper
164 100
166 124.4 100.6 150.8
129 109.2 89.9 134.9
131 101.1 85.9 128.9





#53

Toluene

Concen: 11.50 ppbv

RT: 10.00 min Scan# 2772

Delta R.T. -0.01 min

Lab File: VL032455.D

Acq: 5 Sep 2018 13:22

Instrument :

MSVOA_L

ClientSampleId :

VL0905ABS01

Tot Ion: 91 Resp: 3405855

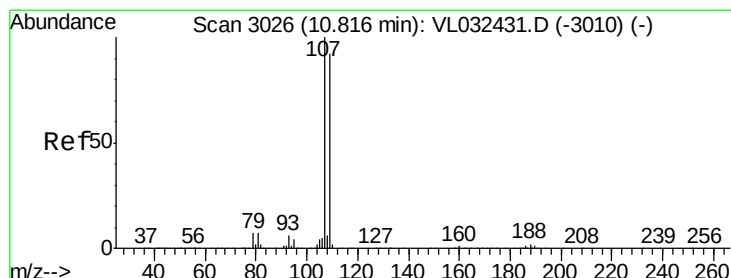
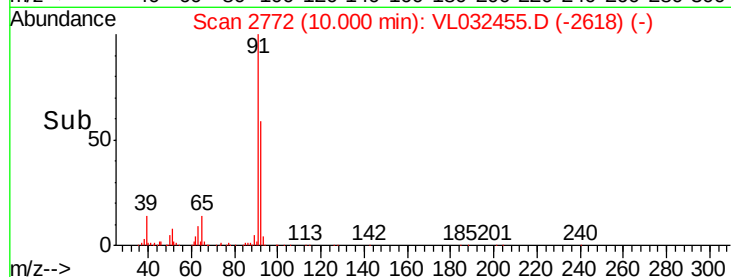
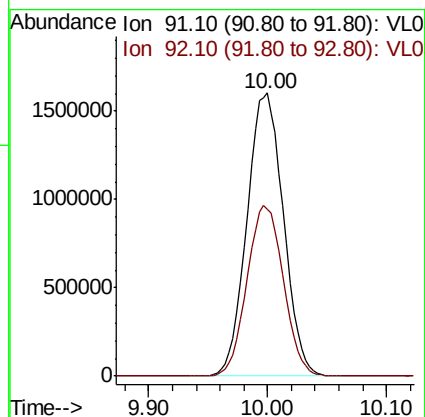
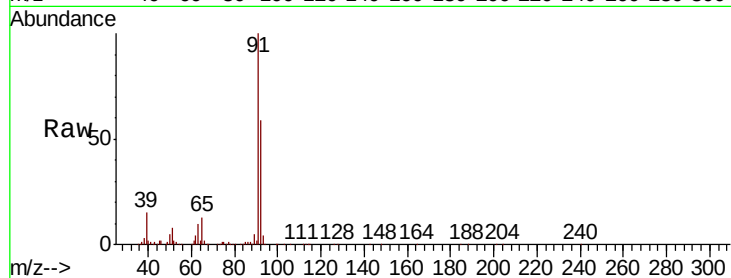
Ion Ratio Lower Upper

91 100

92 60.4 48.1 72.1

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#54

1,2-Dibromoethane

Concen: 10.24 ppbv

RT: 10.81 min Scan# 3024

Delta R.T. -0.01 min

Lab File: VL032455.D

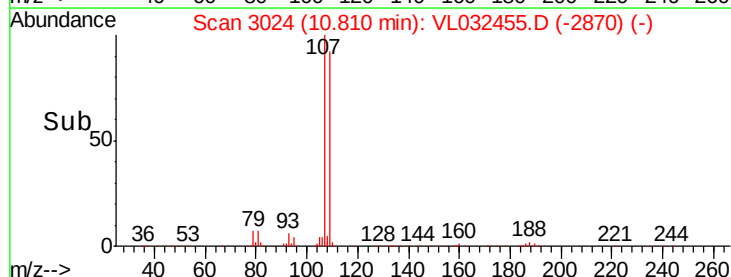
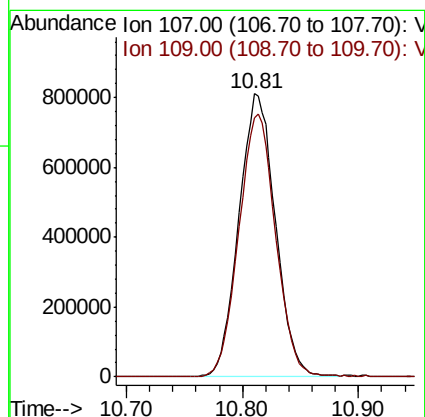
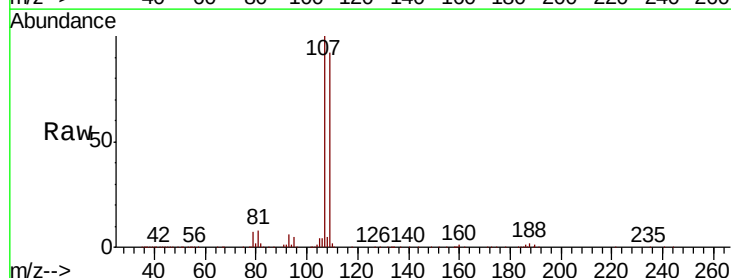
Acq: 5 Sep 2018 13:22

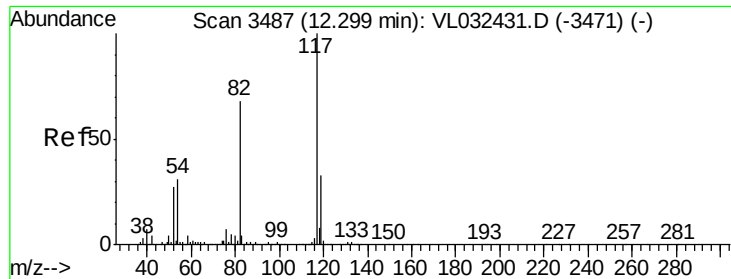
Tgt Ion: 107 Resp: 1772193

Ion Ratio Lower Upper

107 100

109 91.7 73.9 110.9





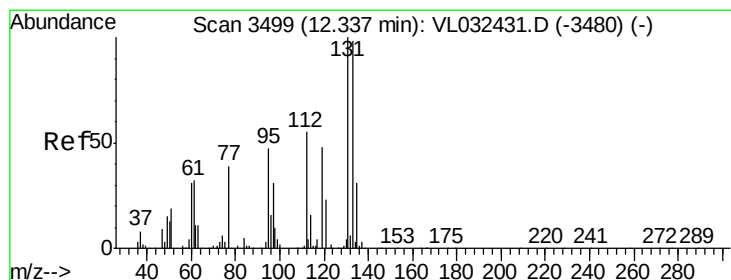
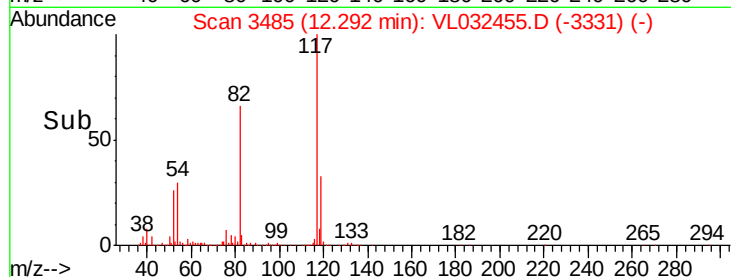
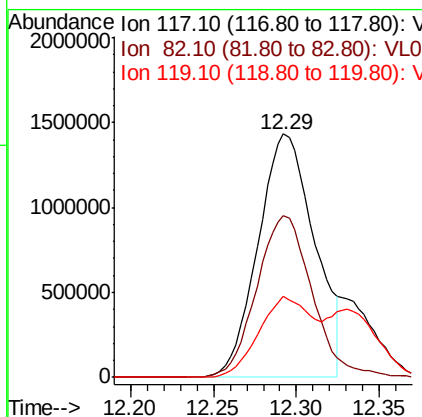
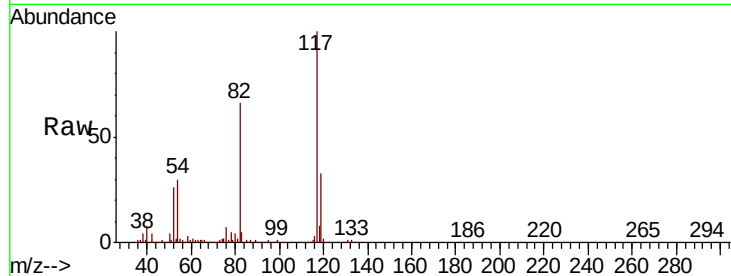
#55
Chlorobenzene-d5
Concen: 10.00 ppbv m
RT: 12.29 min Scan# 3485
Delta R.T. -0.01 min
Lab File: VL032455.D
Acq: 5 Sep 2018 13:22

Instrument :
MSVOA_L
ClientSampleId :
VL0905ABS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	65.3	53.0	79.6
119	56.3	45.9	68.9

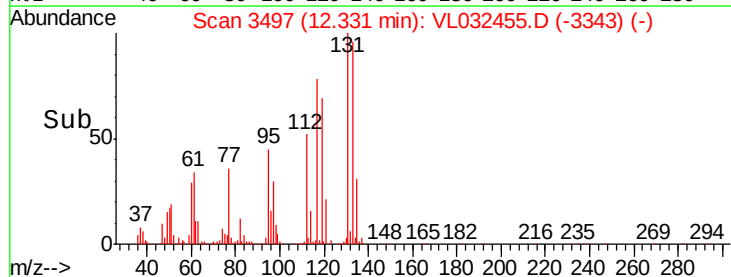
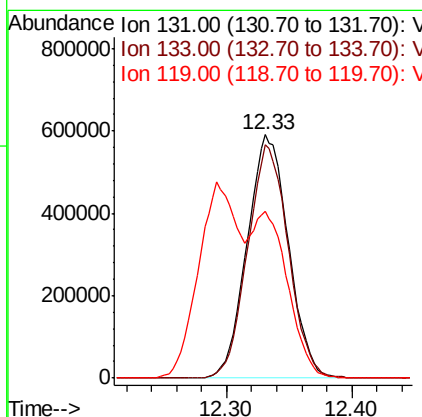
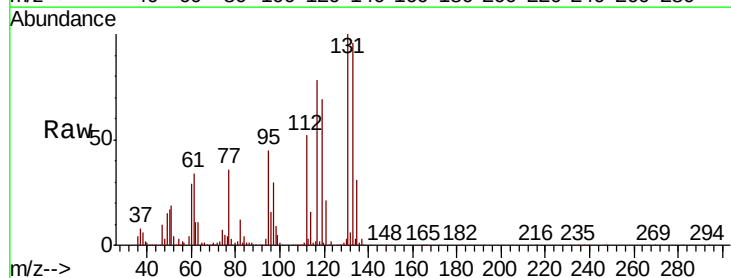
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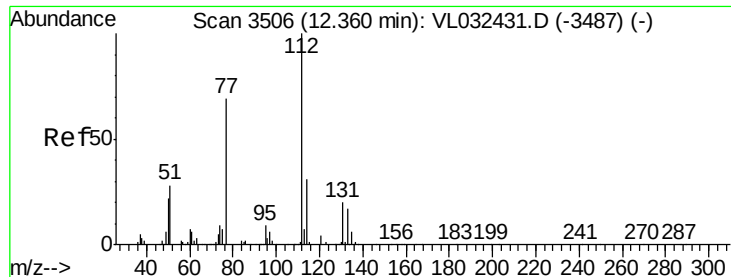
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#56
1,1,1,2-Tetrachloroethane
Concen: 8.80 ppbv
RT: 12.33 min Scan# 3497
Delta R.T. -0.01 min
Lab File: VL032455.D
Acq: 5 Sep 2018 13:22

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.8	77.0	115.4
119	61.7	114.2	171.2#





#57

Chlorobenzene

Concen: 9.05 ppbv

RT: 12.36 min Scan# 3505

Delta R.T. -0.00 min

Lab File: VL032455.D

Acq: 5 Sep 2018 13:22

Instrument :

MSVOA_L

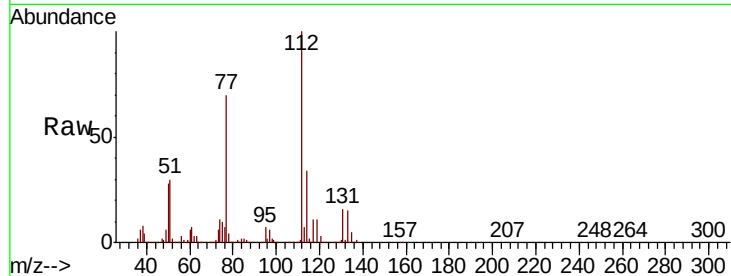
ClientSampleId :

VL0905ABS01

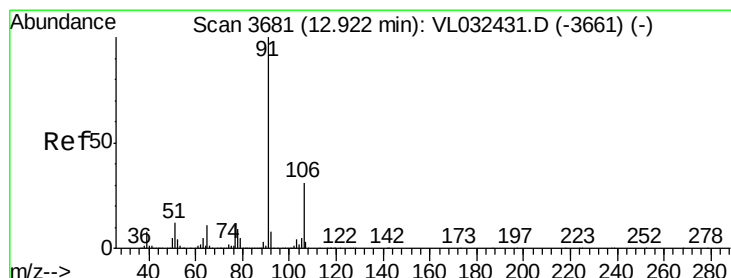
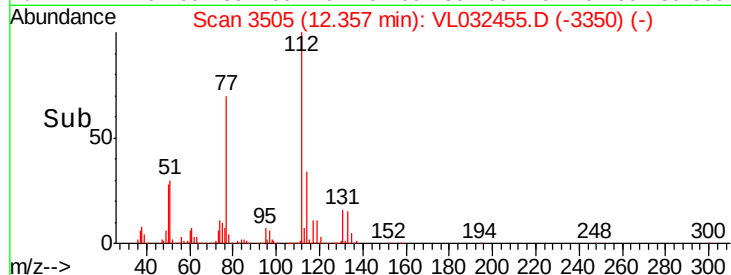
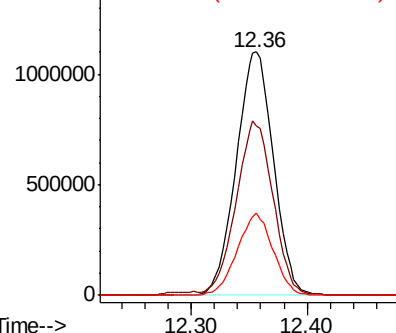
Tot Ion:	112	Resp:	2460140
Ion	Ratio	Lower	Upper
112	100		
77	69.6	56.1	84.1
114	33.5	27.8	34.0

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



#58

Ethyl Benzene

Concen: 11.29 ppbv

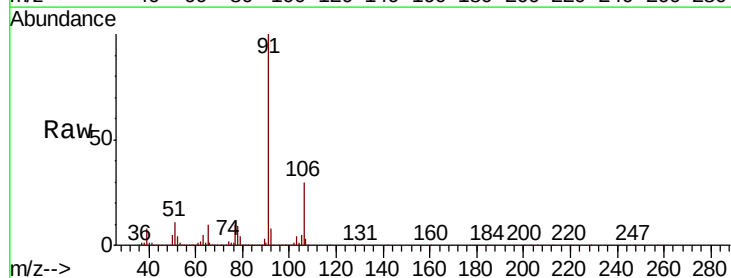
RT: 12.92 min Scan# 3679

Delta R.T. -0.01 min

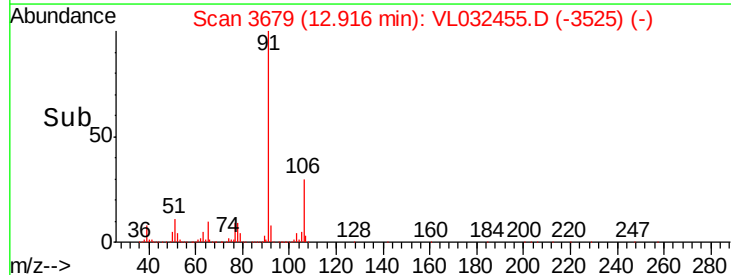
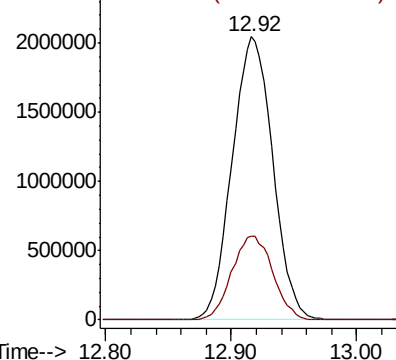
Lab File: VL032455.D

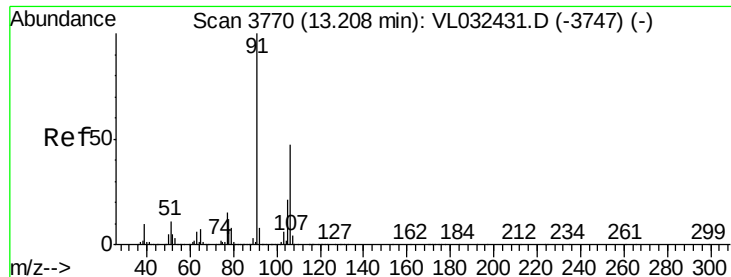
Acq: 5 Sep 2018 13:22

Tgt Ion:	91	Resp:	4595108
Ion	Ratio	Lower	Upper
91	100		
106	29.7	24.8	37.2



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





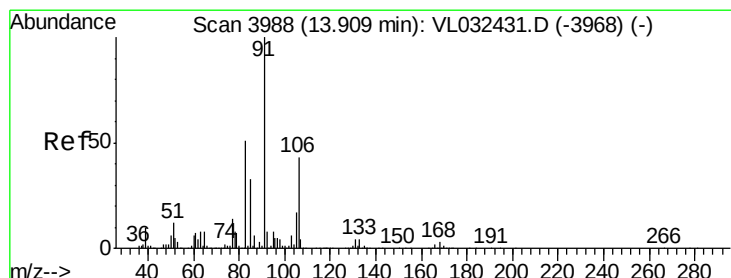
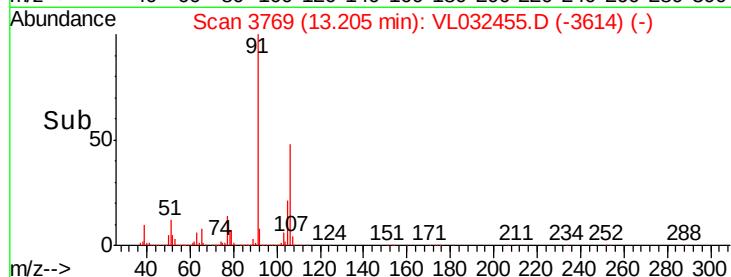
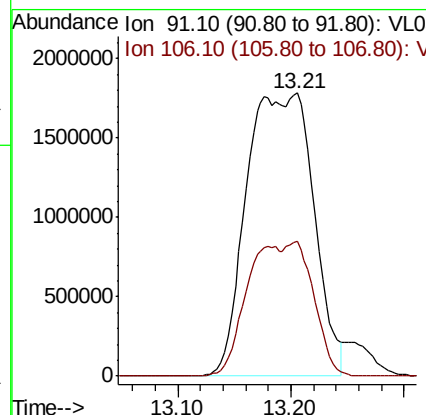
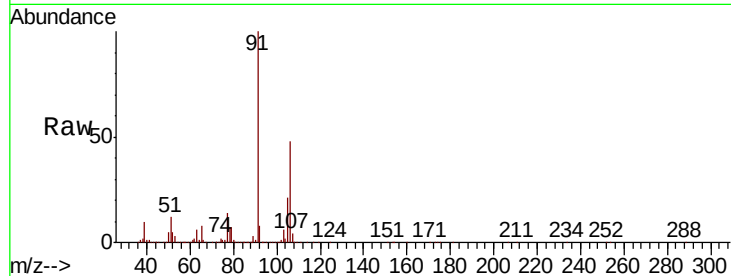
#59
m/p-Xylene
Concen: 20.19 ppbv m
RT: 13.21 min Scan# 3769
Delta R.T. -0.00 min
Lab File: VL032455.D
Acq: 5 Sep 2018 13:22

Instrument :
MSVOA_L
ClientSampleId :
VL0905ABS01

Tot Ion: 91 Resp: 7328104
Ion Ratio Lower Upper
91 100
106 46.1 36.6 55.0

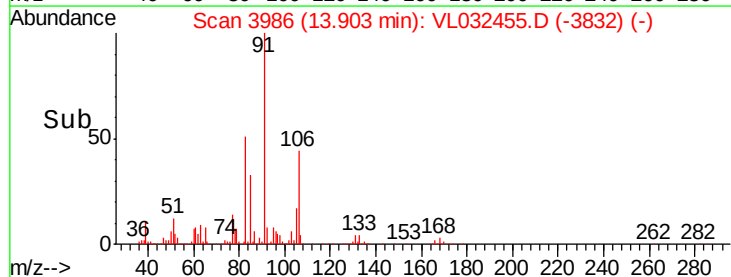
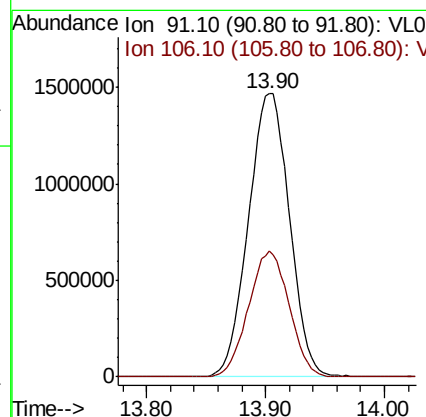
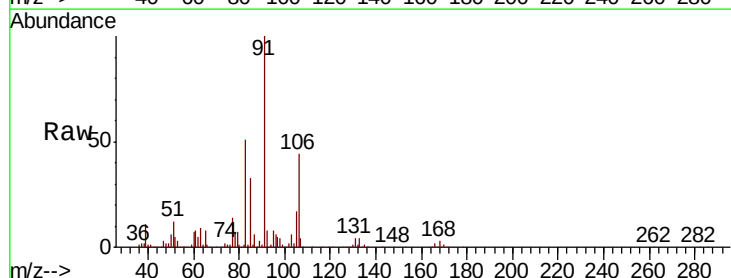
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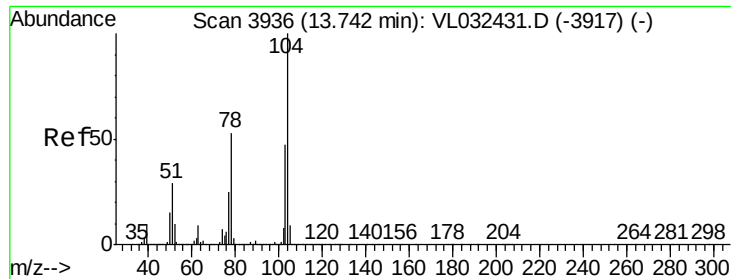
MMDadoda
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#60
o-Xylene
Concen: 9.83 ppbv
RT: 13.90 min Scan# 3986
Delta R.T. -0.01 min
Lab File: VL032455.D
Acq: 5 Sep 2018 13:22

Tgt Ion: 91 Resp: 3502480
Ion Ratio Lower Upper
91 100
106 44.0 21.9 65.7





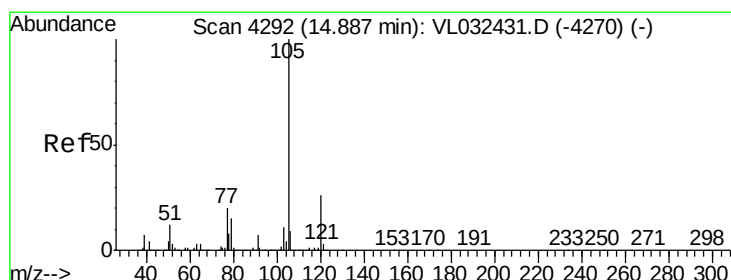
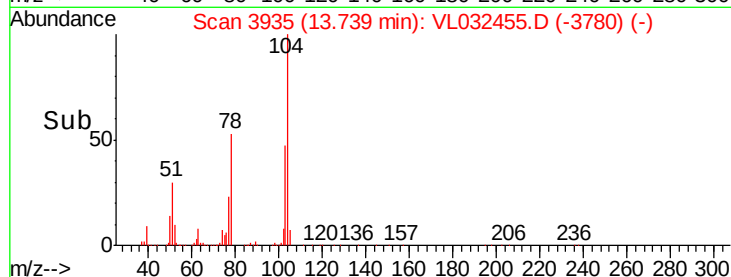
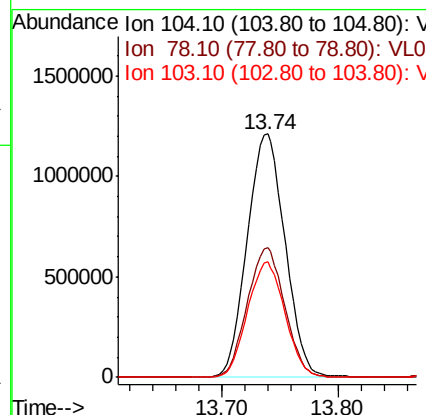
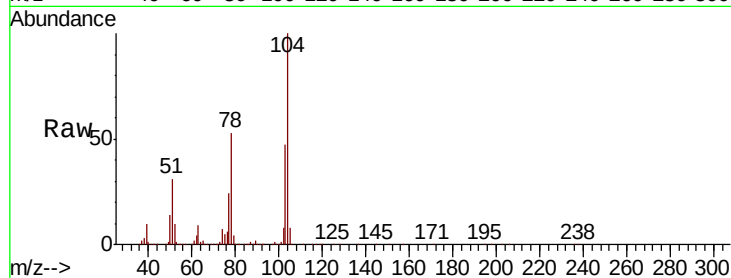
#61
Stvrene
Concen: 11.92 ppbv
RT: 13.74 min Scan# 3935
Delta R.T. -0.00 min
Lab File: VL032455.D
Acq: 5 Sep 2018 13:22

Instrument :
MSVOA_L
ClientSampleId :
VL0905ABS01

Tot Ion	Ratio	Lower	Upper
104	100		
78	52.7	41.8	62.8
103	47.1	38.0	57.0

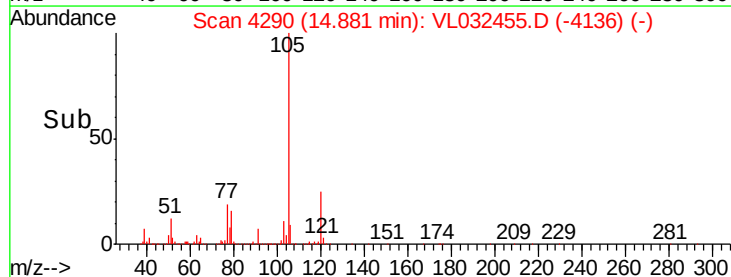
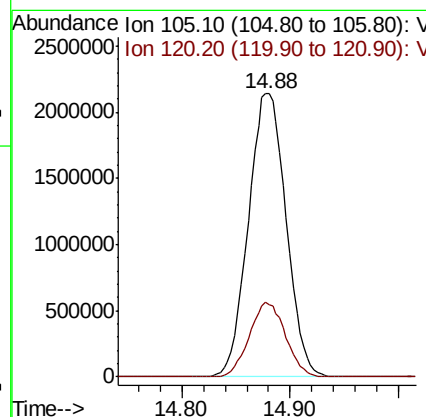
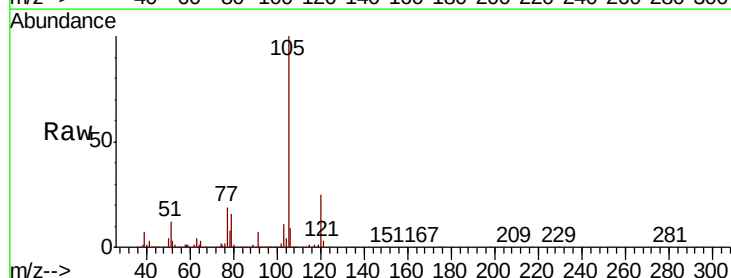
Manual Integrations
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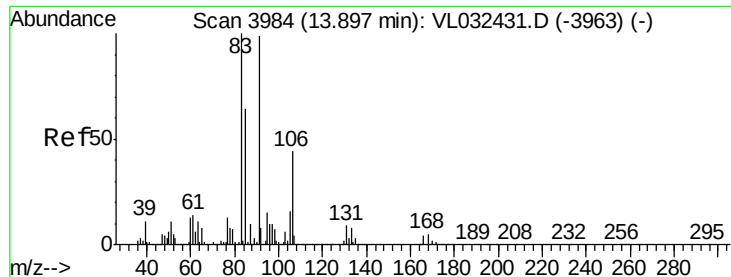
MMDadoda
9/7/2018 10:45:49 AM



#62
Isopropylbenzene
Concen: 10.33 ppbv
RT: 14.88 min Scan# 4290
Delta R.T. -0.01 min
Lab File: VL032455.D
Acq: 5 Sep 2018 13:22

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.3	20.6	31.0





#63

1,1,2,2-Tetrachloroethane

Concen: 8.14 ppbv

RT: 13.89 min Scan# 3982

Delta R.T. -0.01 min

Lab File: VL032455.D

Acq: 5 Sep 2018 13:22

Instrument :

MSVOA_L

ClientSampleId :

VL0905ABS01

Tot Ion: 83 Resp: 2594649

Ion Ratio Lower Upper

83 100

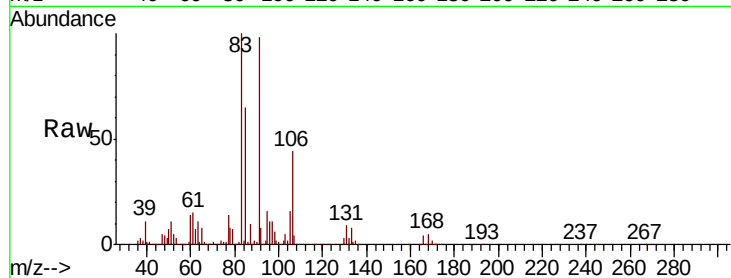
131 8.5 4.3 12.8

85 65.0 32.3 96.8

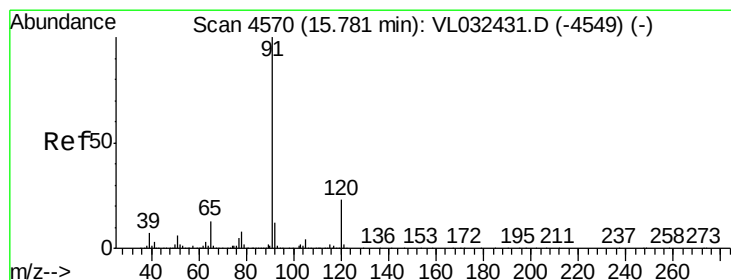
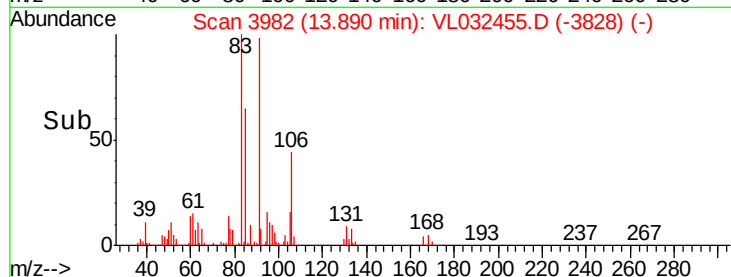
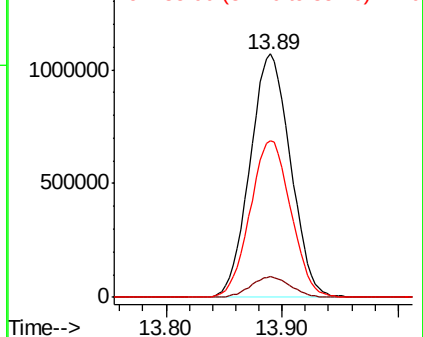
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Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 10.30 ppbv

RT: 15.77 min Scan# 4568

Delta R.T. -0.01 min

Lab File: VL032455.D

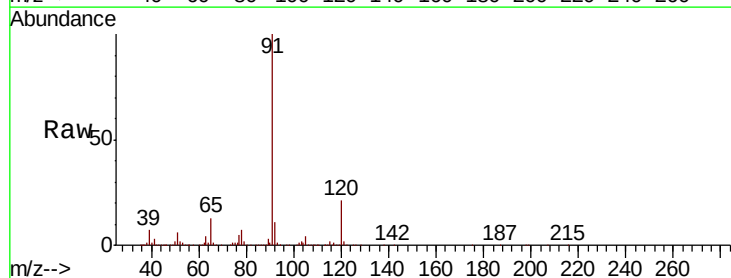
Acq: 5 Sep 2018 13:22

Tgt Ion: 120 Resp: 1349638

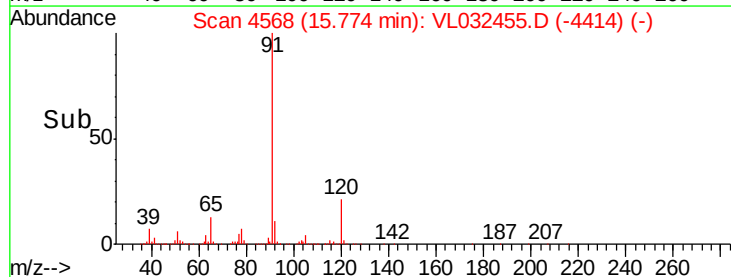
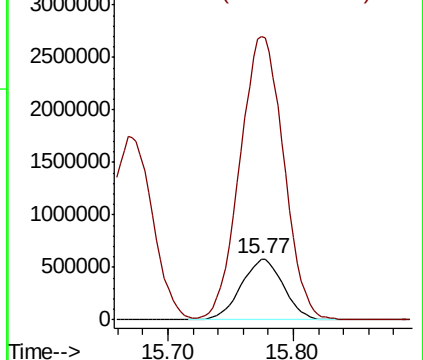
Ion Ratio Lower Upper

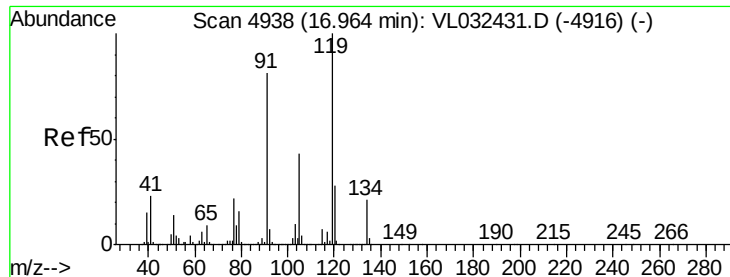
120 100

91 485.8 381.8 572.6



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





#65

tert-Butylbenzene

Concen: 9.94 ppbv

RT: 16.96 min Scan# 4936

Delta R.T. -0.01 min

Lab File: VL032455.D

Acq: 5 Sep 2018 13:22

Instrument :

MSVOA_L

ClientSampleId :

VL0905ABS01

Tot Ion:119 Resp: 4292252

Ion Ratio Lower Upper

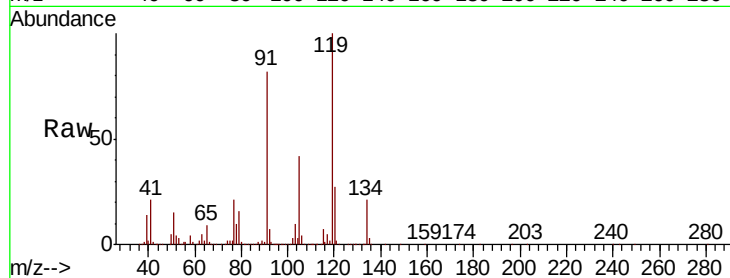
119 100

91 83.6 66.5 99.7

134 19.5 16.0 24.0

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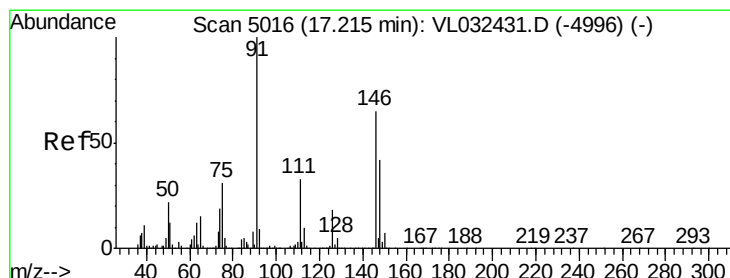
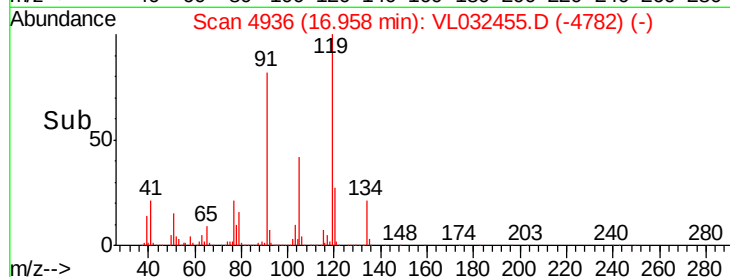
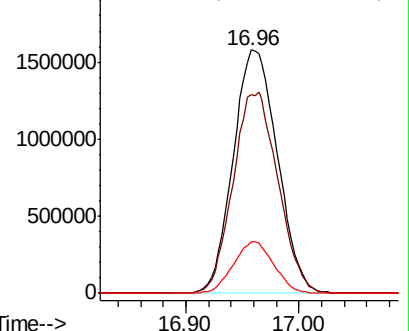
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Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V



#66

Benzyl Chloride

Concen: 11.59 ppbv

RT: 17.21 min Scan# 5014

Delta R.T. -0.01 min

Lab File: VL032455.D

Acq: 5 Sep 2018 13:22

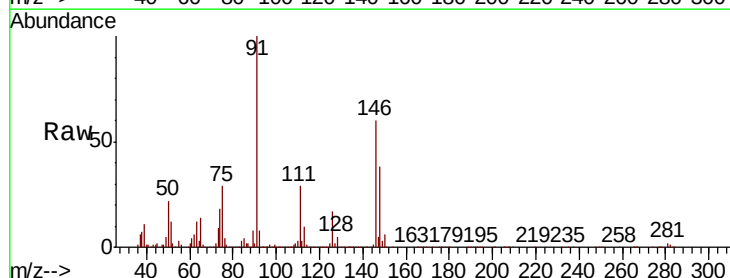
Tgt Ion: 91 Resp: 2787019

Ion Ratio Lower Upper

91 100

126 17.0 13.8 20.8

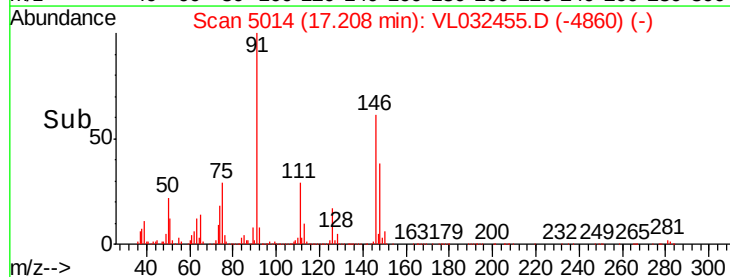
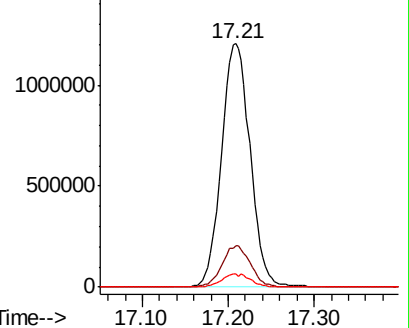
128 5.4 4.4 6.6

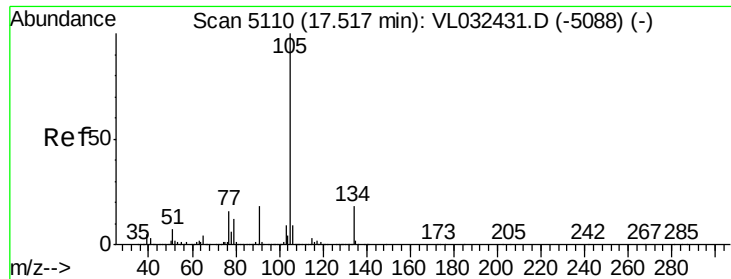


Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

Ion 128.10 (127.80 to 128.80): V





#67

sec-Butylbenzene

Concen: 9.96 ppbv

RT: 17.51 min Scan# 5108

Delta R.T. -0.01 min

Lab File: VL032455.D

Acq: 5 Sep 2018 13:22

Instrument :

MSVOA_L

ClientSampleID :

VL0905ABS01

Tot Ion: 105 Resp: 6467464

Ion Ratio Lower Upper

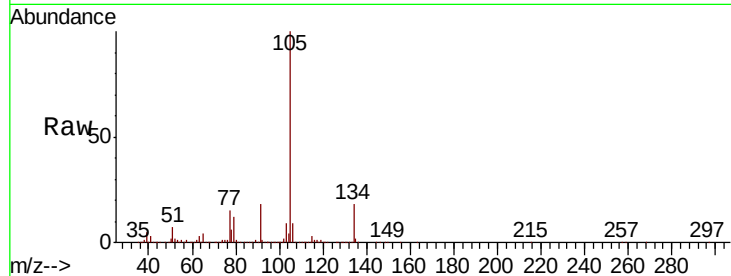
105 100

134 17.6 14.4 21.6

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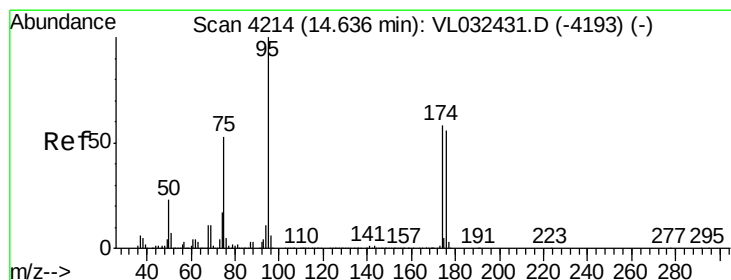
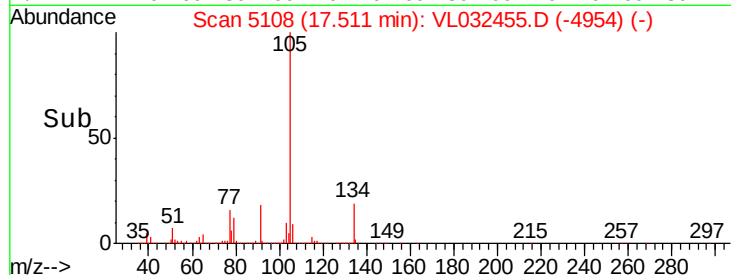
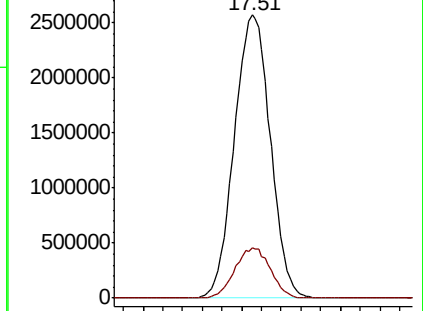
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.79 ppbv

RT: 14.63 min Scan# 4212

Delta R.T. -0.01 min

Lab File: VL032455.D

Acq: 5 Sep 2018 13:22

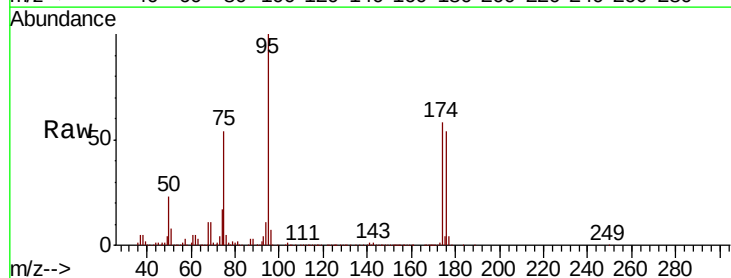
Tgt Ion: 95 Resp: 2472482

Ion Ratio Lower Upper

95 100

174 57.4 46.3 69.5

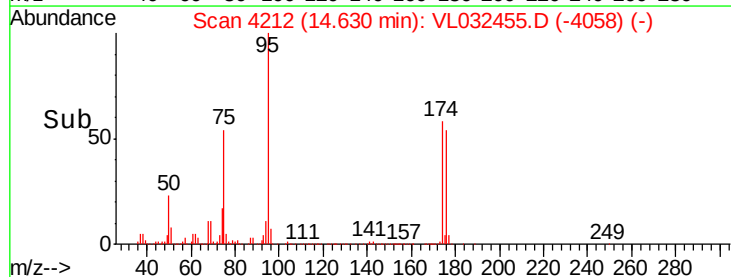
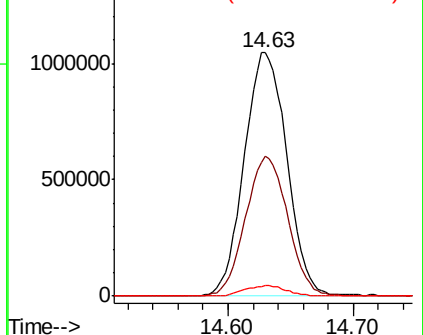
175 4.2 3.4 5.0

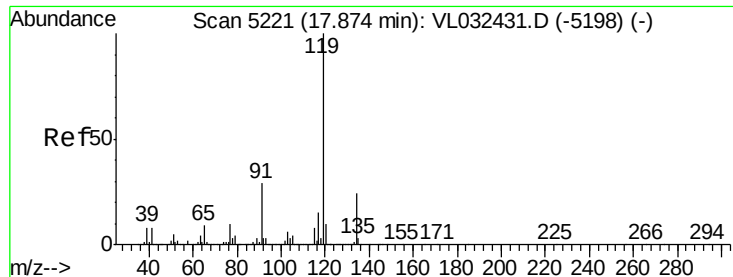


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





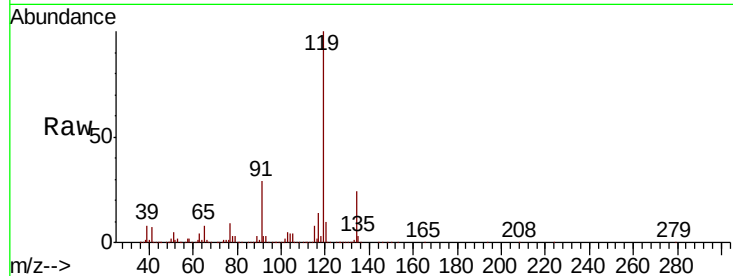
#69
 p-Isopropyltoluene
 Concen: 10.32 ppbv
 RT: 17.87 min Scan# 5219
 Delta R.T. -0.01 min
 Lab File: VL032455.D
 Acq: 5 Sep 2018 13:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0905ABS01

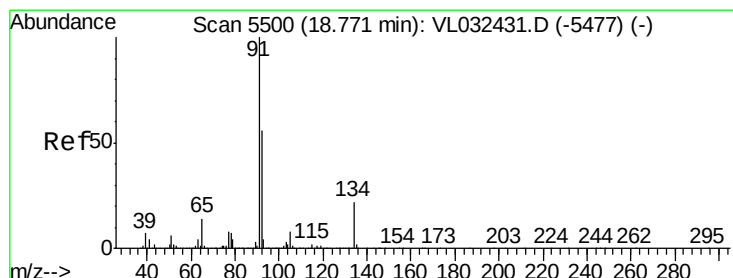
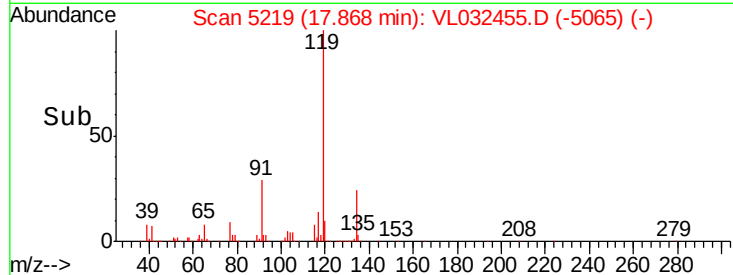
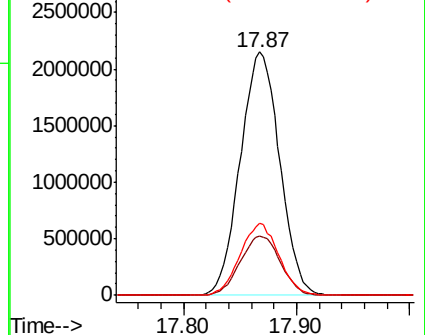
Tot Ion:	119	Resp:	5195766
Ion	Ratio	Lower	Upper
119	100		
134	24.9	20.4	30.6
91	29.2	23.4	35.2

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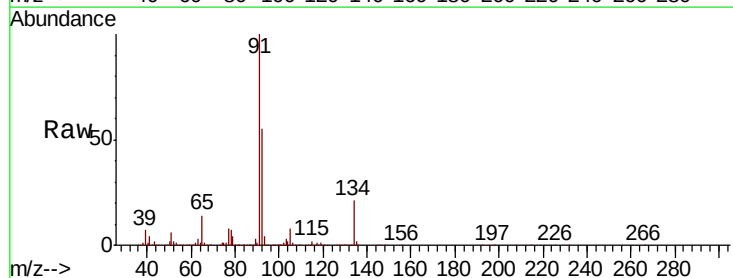


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

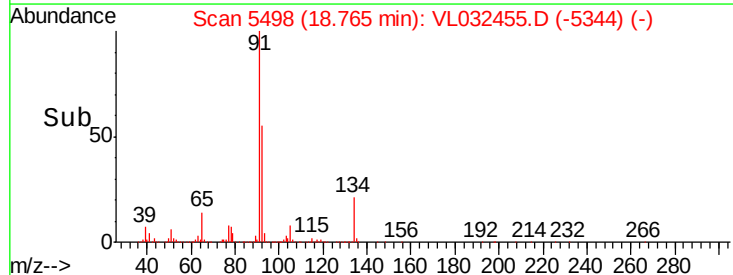
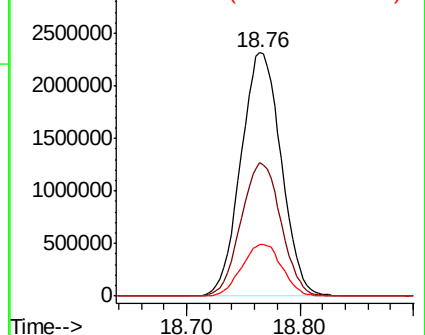


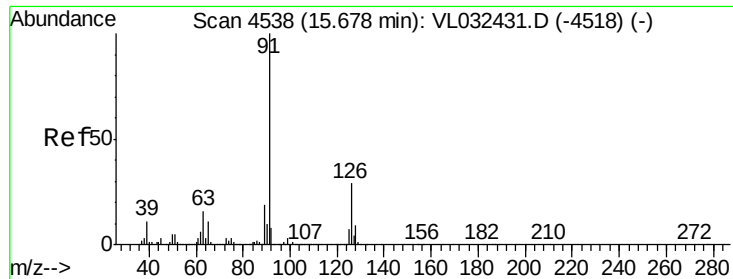
#70
 n-Butylbenzene
 Concen: 10.01 ppbv
 RT: 18.76 min Scan# 5498
 Delta R.T. -0.01 min
 Lab File: VL032455.D
 Acq: 5 Sep 2018 13:22

Tgt Ion:	91	Resp:	5712720
Ion	Ratio	Lower	Upper
91	100		
92	54.6	43.8	65.8
134	21.3	17.4	26.0



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





#71

2-Chlorotoluene

Concen: 10.77 ppbv

RT: 15.67 min Scan# 4535

Delta R.T. -0.01 min

Lab File: VL032455.D

Acq: 5 Sep 2018 13:22

Instrument :

MSVOA_L

ClientSampleId :

VL0905ABS01

Tot Ion: 91 Resp: 4124464

Ion Ratio Lower Upper

91 100

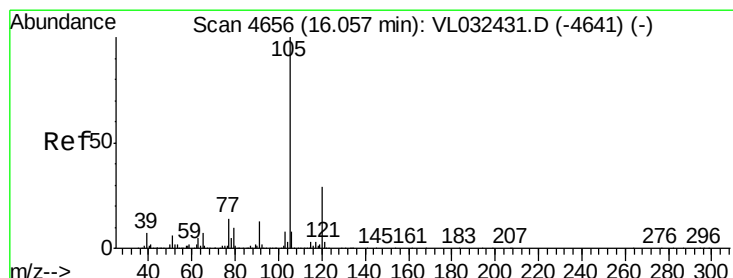
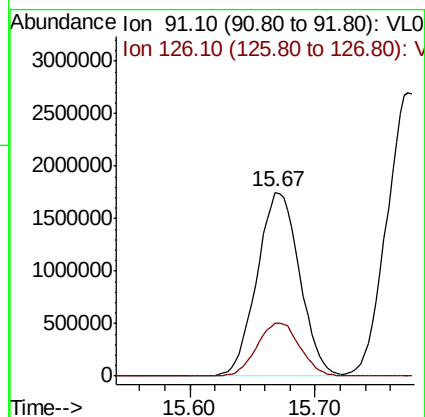
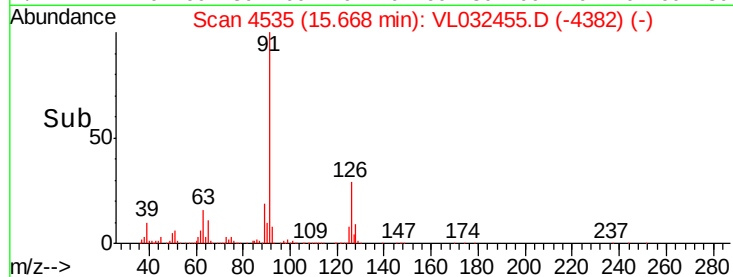
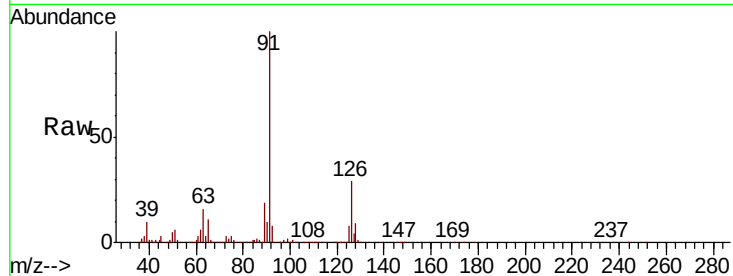
126 29.3 11.9 47.7

Manual Integrations

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#72

4-Ethyltoluene

Concen: 11.08 ppbv

RT: 16.05 min Scan# 4655

Delta R.T. -0.00 min

Lab File: VL032455.D

Acq: 5 Sep 2018 13:22

Tgt Ion:105 Resp: 4313262

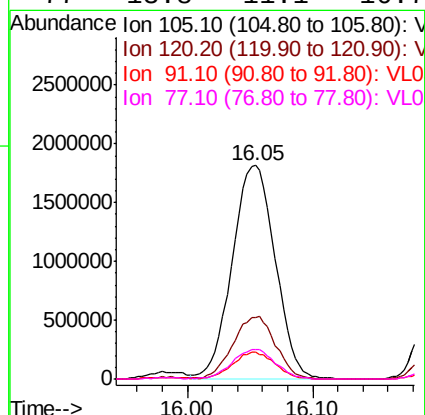
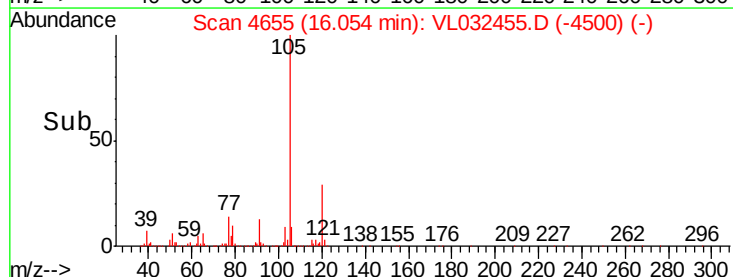
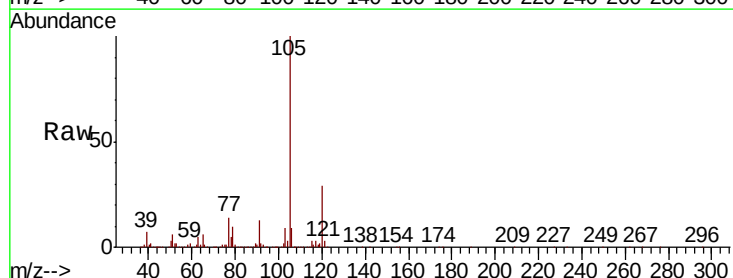
Ion Ratio Lower Upper

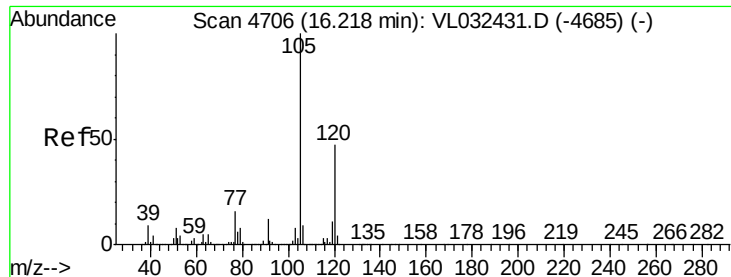
105 100

120 29.1 23.5 35.3

91 12.4 10.2 15.2

77 13.8 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 10.45 ppbv

RT: 16.21 min Scan# 4704

Delta R.T. -0.01 min

Lab File: VL032455.D

Acq: 5 Sep 2018 13:22

Instrument :

MSVOA_L

ClientSampleId :

VL0905ABS01

Tot Ion:105 Resp: 4074614

Ion Ratio Lower Upper

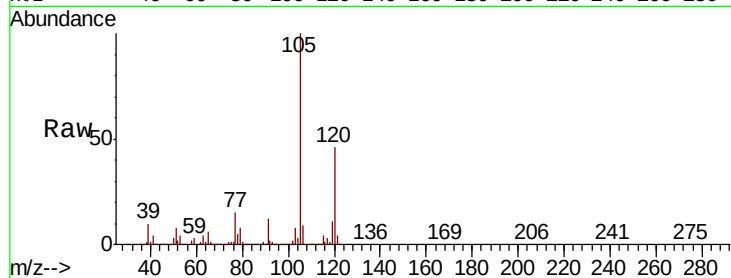
105 100

120 45.7 37.9 56.9

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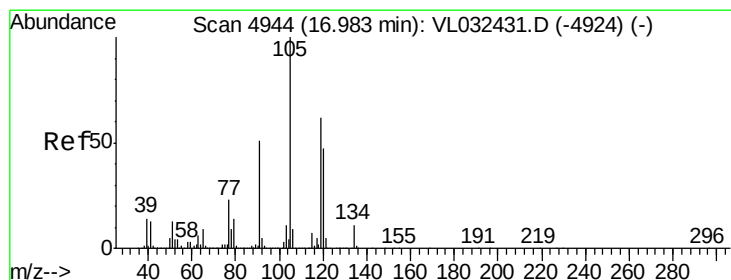
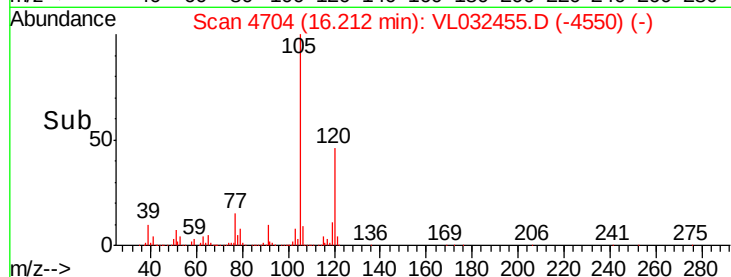
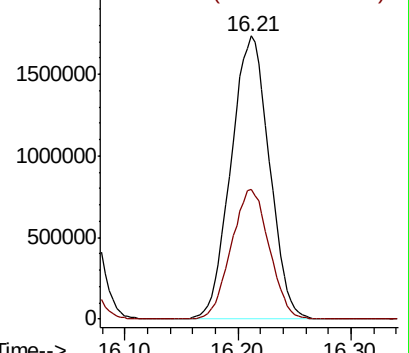
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 9.55 ppbv

RT: 16.98 min Scan# 4943

Delta R.T. -0.00 min

Lab File: VL032455.D

Acq: 5 Sep 2018 13:22

Tgt Ion:105 Resp: 4068914

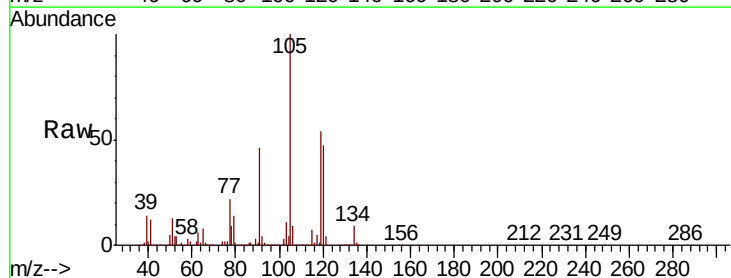
Ion Ratio Lower Upper

105 100

120 46.9 37.8 56.8

91 45.7 41.4 62.0

77 21.9 18.6 28.0

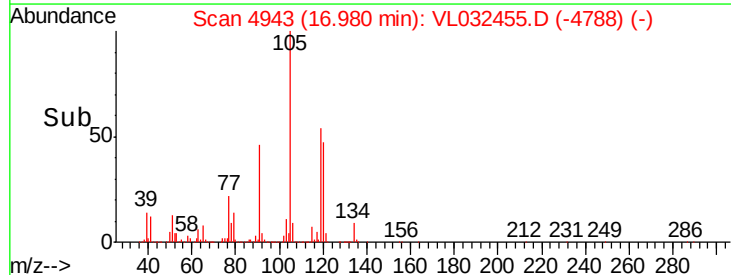
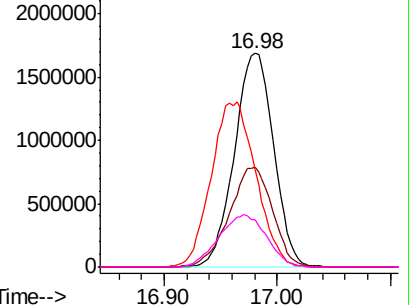


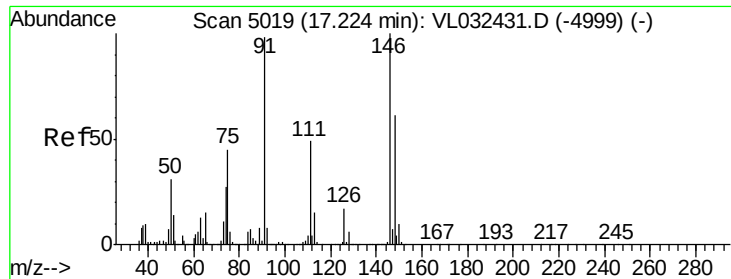
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#75

1,3-Dichlorobenzene

Concen: 8.93 ppbv

RT: 17.22 min Scan# 5018

Delta R.T. -0.00 min

Lab File: VL032455.D

Acq: 5 Sep 2018 13:22

Instrument :

MSVOA_L

ClientSampleId :

VL0905ABS01

Tot Ion:146 Resp: 2257906

Ion Ratio Lower Upper

146 100

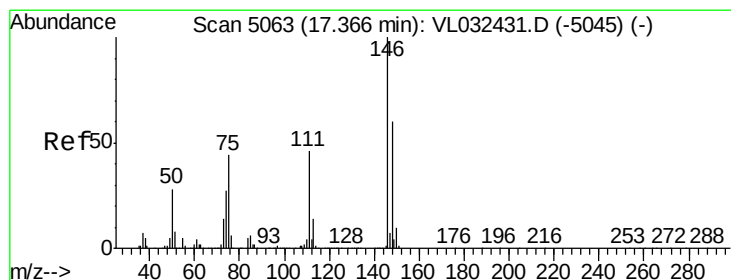
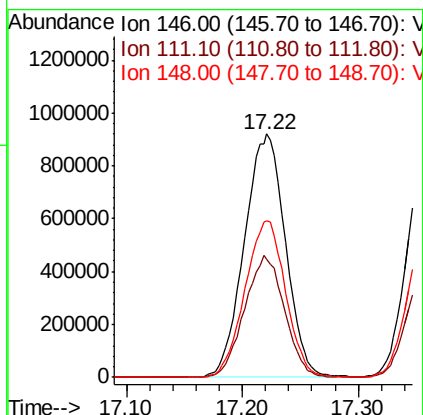
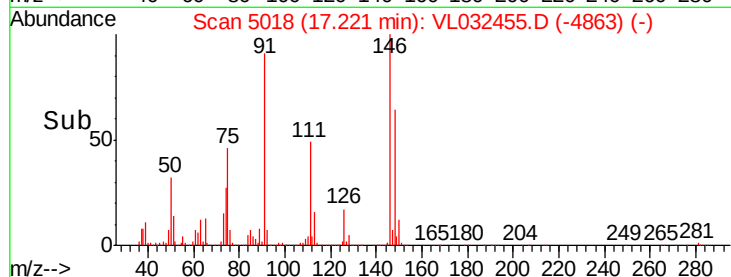
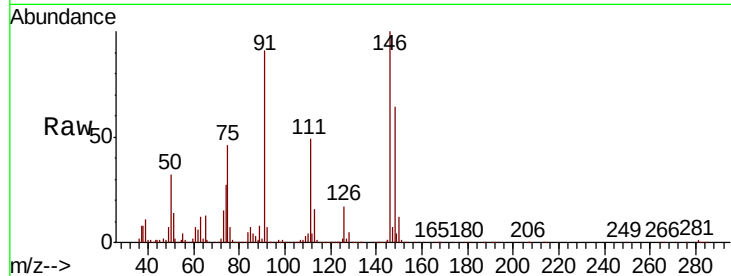
111 48.9 24.5 73.5

148 63.8 32.0 96.2

Manual Integrations
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#76

1,4-Dichlorobenzene

Concen: 9.84 ppbv

RT: 17.36 min Scan# 5060

Delta R.T. -0.01 min

Lab File: VL032455.D

Acq: 5 Sep 2018 13:22

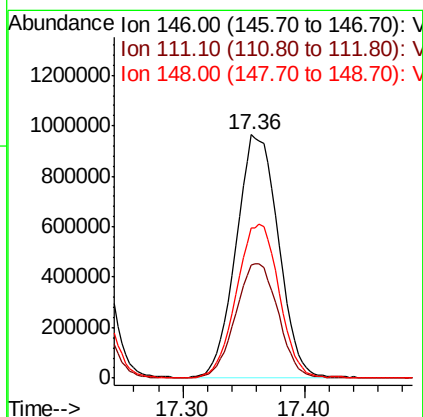
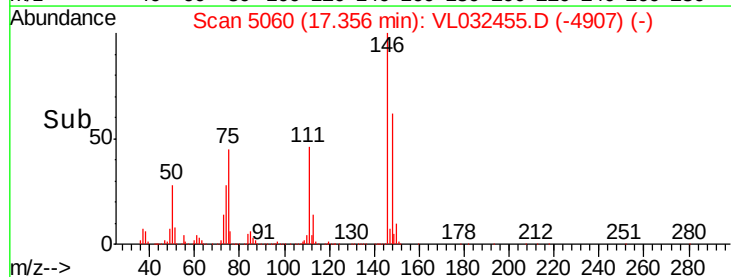
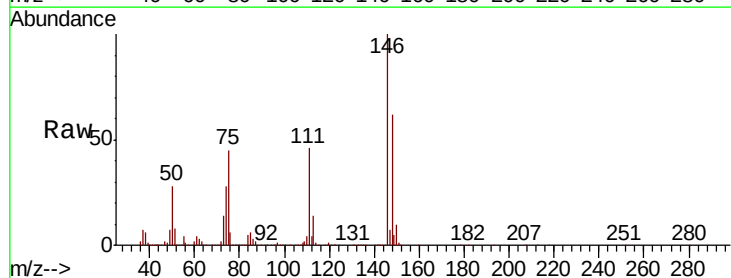
Tgt Ion:146 Resp: 2308435

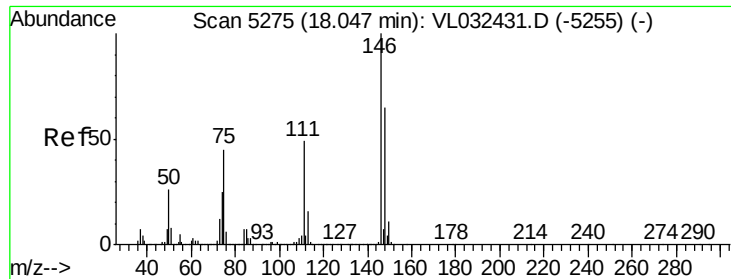
Ion Ratio Lower Upper

146 100

111 47.5 23.4 70.2

148 63.9 32.0 96.2





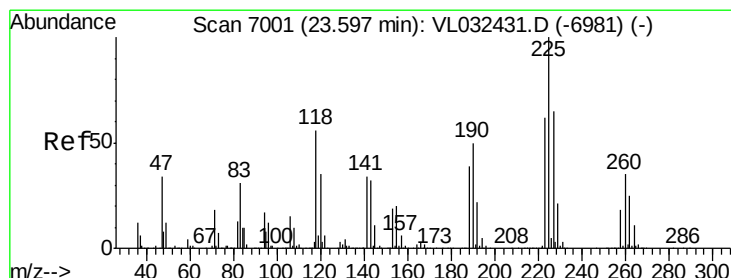
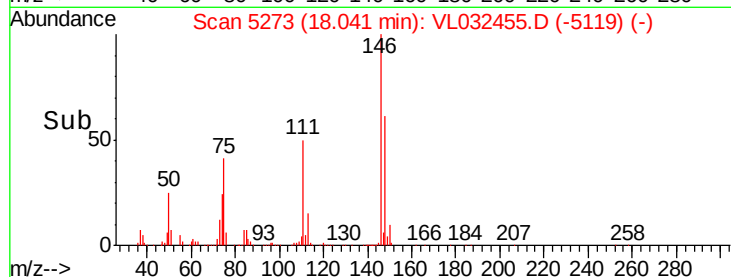
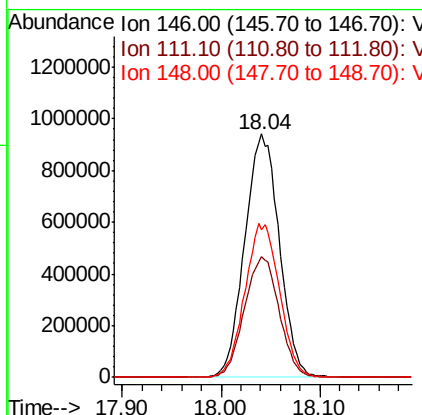
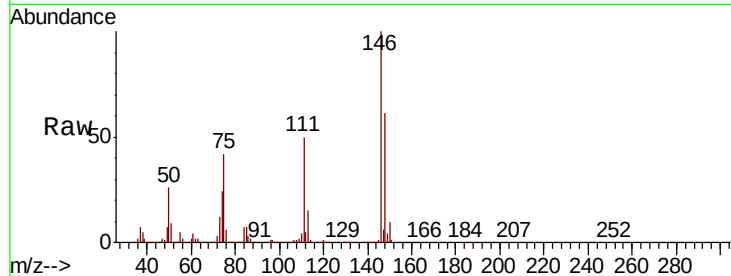
#77
 1,2-Dichlorobenzene
 Concen: 9.34 ppbv
 RT: 18.04 min Scan# 5273
 Delta R.T. -0.01 min
 Lab File: VL032455.D
 Acq: 5 Sep 2018 13:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0905ABS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.9	24.9	74.8
148	63.6	32.0	96.0

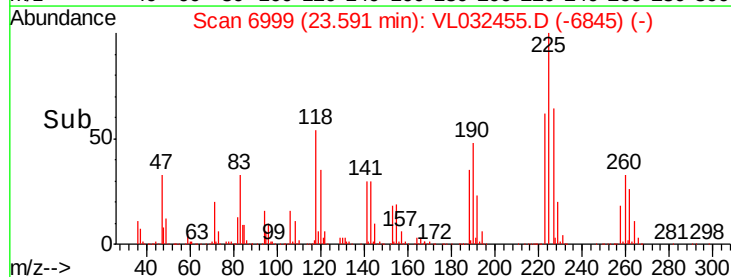
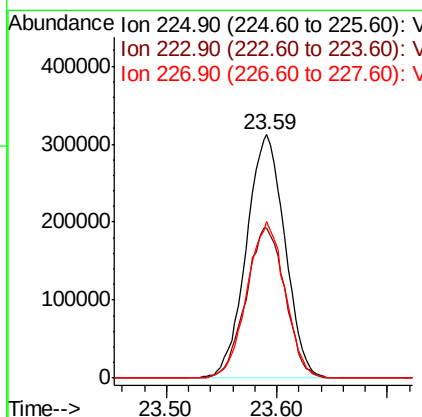
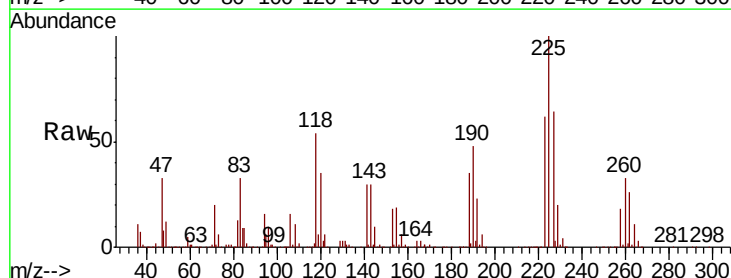
Manual Integrations
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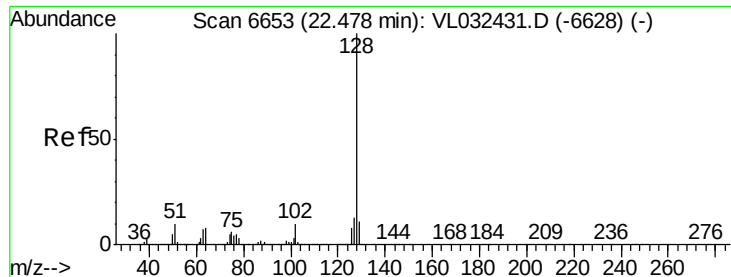
MMDadoda
 9/7/2018 10:45:49 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.27 ppbv
 RT: 23.59 min Scan# 6999
 Delta R.T. -0.01 min
 Lab File: VL032455.D
 Acq: 5 Sep 2018 13:22

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.8	50.6	76.0
227	63.3	51.2	76.8





#79

Naphthalene

Concen: 11.44 ppbv

RT: 22.47 min Scan# 6651

Delta R.T. -0.01 min

Lab File: VL032455.D

Acq: 5 Sep 2018 13:22

Instrument :

MSVOA_L

ClientSampleId :

VL0905ABS01

Tot Ion:128 Resp: 3965533

Ion Ratio Lower Upper

128 100

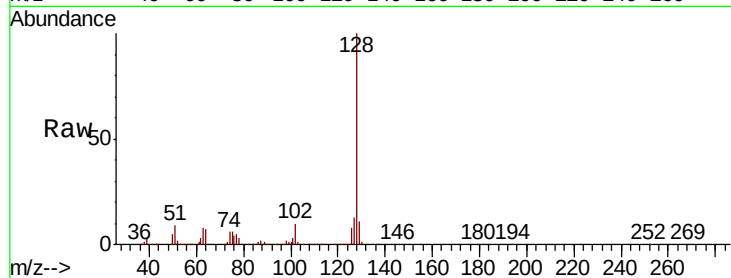
127 13.0 10.2 15.2

129 10.8 8.5 12.7

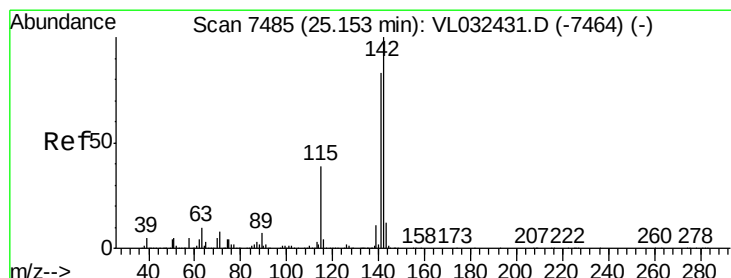
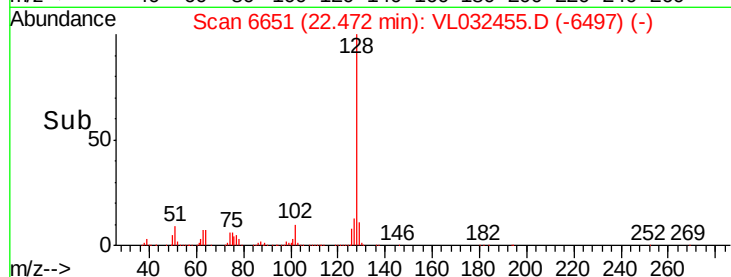
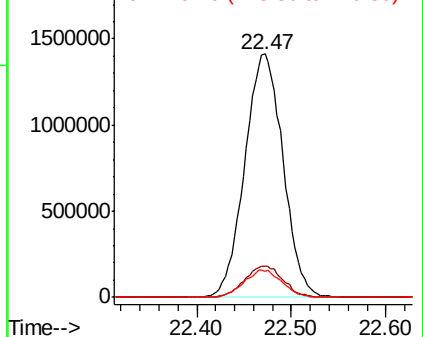
Manual Integrations
APPROVED

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9/7/2018 10:45:49 AM



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



#80

Naphthalene, 2-methyl-

Concen: 18.30 ppbv

RT: 25.15 min Scan# 7484

Delta R.T. -0.00 min

Lab File: VL032455.D

Acq: 5 Sep 2018 13:22

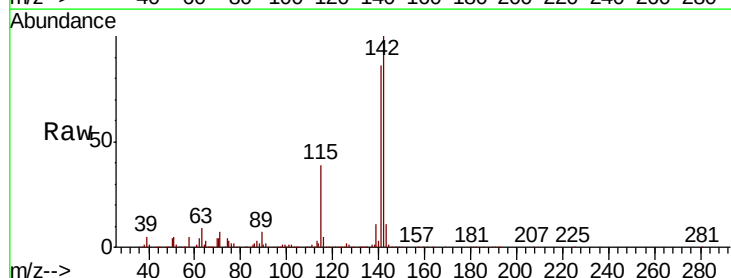
Tgt Ion:142 Resp: 1687825

Ion Ratio Lower Upper

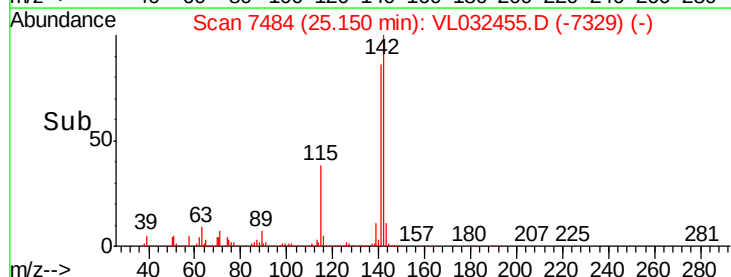
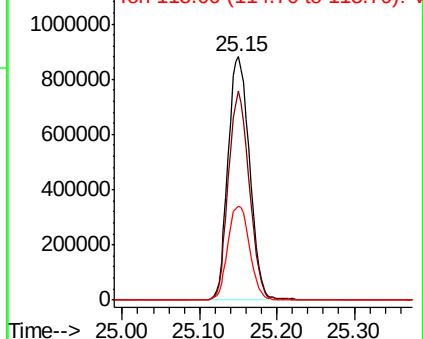
142 100

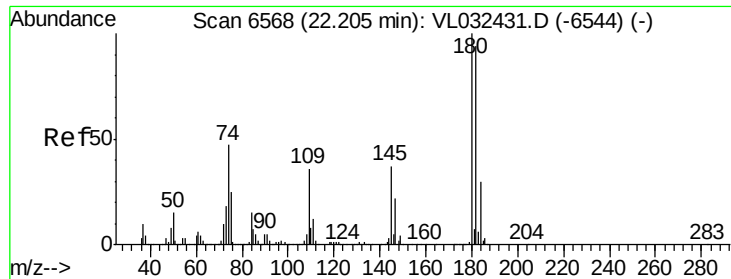
141 83.3 67.0 100.6

115 39.4 31.3 46.9



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





#81
 1,2,4-Trichlorobenzene
 Concen: 10.68 ppbv
 RT: 22.19 min Scan# 6564
 Delta R.T. -0.01 min
 Lab File: VL032455.D
 Acq: 5 Sep 2018 13:22

Instrument :
 MSVOA_L
 ClientSampleId :
 VL0905ABS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.1	114.1
184	30.5	23.8	35.8

Manual Integrations
 APPROVED

MMDadoda
 9/7/2018 10:45:49 AM

