

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL022520\
 Data File : VL034670.D
 Acq On : 25 Feb 2020 13:13
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 2/26/2020 12:38:47 PM

Quant Time: Feb 25 14:16:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Feb 25 2020
 QLast Update : Tue Feb 25 12:01:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1126075	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2345893	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	2327385	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	1945474	9.89	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.02	85	128558	0.518 ppbv	96
3) Chlorodifluoromethane	2.95	51	80440	0.591 ppbv	99
4) Chloromethane	3.11	50	46291	0.556 ppbv	90
5) Vinyl Chloride	3.23	62	39956	0.502 ppbv	96
6) Bromomethane	3.44	94	22348m	0.540 ppbv	
7) Chloroethane	3.53	64	16162	0.547 ppbv #	85
8) Dichlorotetrafluoroethane	3.15	85	104454	0.539 ppbv	100
9) Propene	2.98	41	27303	0.515 ppbv	90
10) Heptane	8.13	43	70133	0.526 ppbv	99
11) Trichlorofluoromethane	3.93	101	104566	0.464 ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.47	101	74222	0.505 ppbv	93
13) Ethanol	3.59	45	10084m	0.711 ppbv	
14) Bromoethene	3.71	108	25603	0.444 ppbv	92
15) Acetone	3.84	43	93491	0.565 ppbv	97
16) 1,3-Butadiene	3.29	39	34806	0.530 ppbv	98
17) tert-Butyl alcohol	4.29	59	67310	0.553 ppbv	98
18) 1,1-Dichloroethene	4.27	96	31767	0.512 ppbv #	74
19) Isopropyl Alcohol	3.96	45	59665	0.618 ppbv #	94
20) Methylene Chloride	4.32	84	35263	0.560 ppbv #	88
21) Allyl Chloride	4.39	41	49402	0.481 ppbv	99
22) trans-1,2-Dichloroethene	4.87	96	31407m	0.483 ppbv	
23) Vinyl Acetate	5.07	43	93432	0.495 ppbv #	92
24) 1,1-Dichloroethane	5.00	63	91043	0.578 ppbv #	95
25) Ethyl Acetate	5.68	43	141644	0.529 ppbv	99
26) Hexane	5.68	57	60328	0.538 ppbv	91
27) Carbon Disulfide	4.54	76	66718	0.441 ppbv #	90
28) Methyl tert-Butyl Ether	5.03	73	85703	0.448 ppbv	99
29) Chloroform	5.75	83	103399	0.521 ppbv	94
30) Cyclohexane	7.13	84	43992m	0.529 ppbv	
31) cis-1,2-Dichloroethene	5.54	61	54002	0.463 ppbv #	88
32) 1,1,1-Trichloroethane	6.52	97	89747	0.421 ppbv	99
34) 2-Butanone	5.24	43	79263	0.465 ppbv	97
35) Carbon Tetrachloride	7.02	117	98153m	0.438 ppbv	
36) Benzene	6.90	78	109920	0.527 ppbv #	94
37) 1,2-Dichloroethane	6.30	62	76102	0.437 ppbv	97
38) Trichloroethene	7.85	130	41214	0.469 ppbv #	86
39) 1,2-Dichloropropane	7.63	63	46997m	0.543 ppbv	
40) 1,4-Dioxane	7.88	88	18013m	0.542 ppbv	
41) Tetrahydrofuran	6.07	42	39288m	0.442 ppbv	
42) Bromodichloromethane	7.81	83	96616	0.451 ppbv	87
43) Methyl Methacrylate	8.03	69	37172m	0.443 ppbv	

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Quant Time: Feb 25 14:16:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022520AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Feb 25 2020
 QLast Update : Tue Feb 25 12:01:27 2020
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.88	57	201716	0.533	ppbv	96
45) t-1,3-Dichloropropene	9.29	75	41885m	0.381	ppbv	
46) cis-1,3-Dichloropropene	8.73	75	49107m	0.393	ppbv	
47) 1,1,2-Trichloroethane	9.50	97	51926	0.554	ppbv	89
48) Dibromochloromethane	10.33	129	71422m	0.416	ppbv	
49) Bromoform	13.08	173	62283m	0.413	ppbv	
50) 4-Methyl-2-Pentanone	8.77	43	108942	0.448	ppbv	97
51) 2-Hexanone	10.18	43	77862m	0.407	ppbv	
52) Tetrachloroethene	11.25	164	38828m	0.463	ppbv	
53) Toluene	9.83	91	106026m	0.463	ppbv	
54) 1,2-Dibromoethane	10.64	107	66814	0.476	ppbv	92
56) 1,1,1,2-Tetrachloroethane	12.15	131	56327m	0.490	ppbv	
57) Chlorobenzene	12.18	112	109168	0.570	ppbv	93
58) Ethyl Benzene	12.75	91	145873	0.468	ppbv	90
59) m/p-Xylene	13.02	91	286630m	1.041	ppbv	
60) o-Xylene	13.73	91	142255	0.515	ppbv	94
61) Styrene	13.57	104	79654	0.432	ppbv	97
62) Isopropylbenzene	14.71	105	182369	0.509	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.71	83	115962m	0.542	ppbv	
64) n-propylbenzene	15.60	120	43529	0.472	ppbv	76
65) tert-Butylbenzene	16.79	119	158882	0.489	ppbv	98
66) Benzyl Chloride	17.04	91	54105m	0.398	ppbv	
67) sec-Butylbenzene	17.34	105	220416m	0.494	ppbv	
69) p-Isopropyltoluene	17.69	119	166001m	0.458	ppbv	
70) n-Butylbenzene	18.60	91	178933	0.465	ppbv	94
71) 2-Chlorotoluene	15.50	91	131381	0.483	ppbv	99
72) 4-Ethyltoluene	15.88	105	139284	0.459	ppbv	96
73) 1,3,5-Trimethylbenzene	16.04	105	136591	0.460	ppbv	89
74) 1,2,4-Trimethylbenzene	16.81	105	158642	0.483	ppbv #	91
75) 1,3-Dichlorobenzene	17.05	146	104880	0.554	ppbv	98
76) 1,4-Dichlorobenzene	17.19	146	95563m	0.513	ppbv	
77) 1,2-Dichlorobenzene	17.87	146	98658m	0.543	ppbv	
78) Hexachloro-1,3-Butadiene	23.42	225	79918m	0.460	ppbv	
79) Naphthalene	22.27	128	89496m	0.346	ppbv	
80) Naphthalene, 2-methyl-	25.03	142	16124	0.162	ppbv	97
81) 1,2,4-Trichlorobenzene	21.99	180	66985m	0.420	ppbv	

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

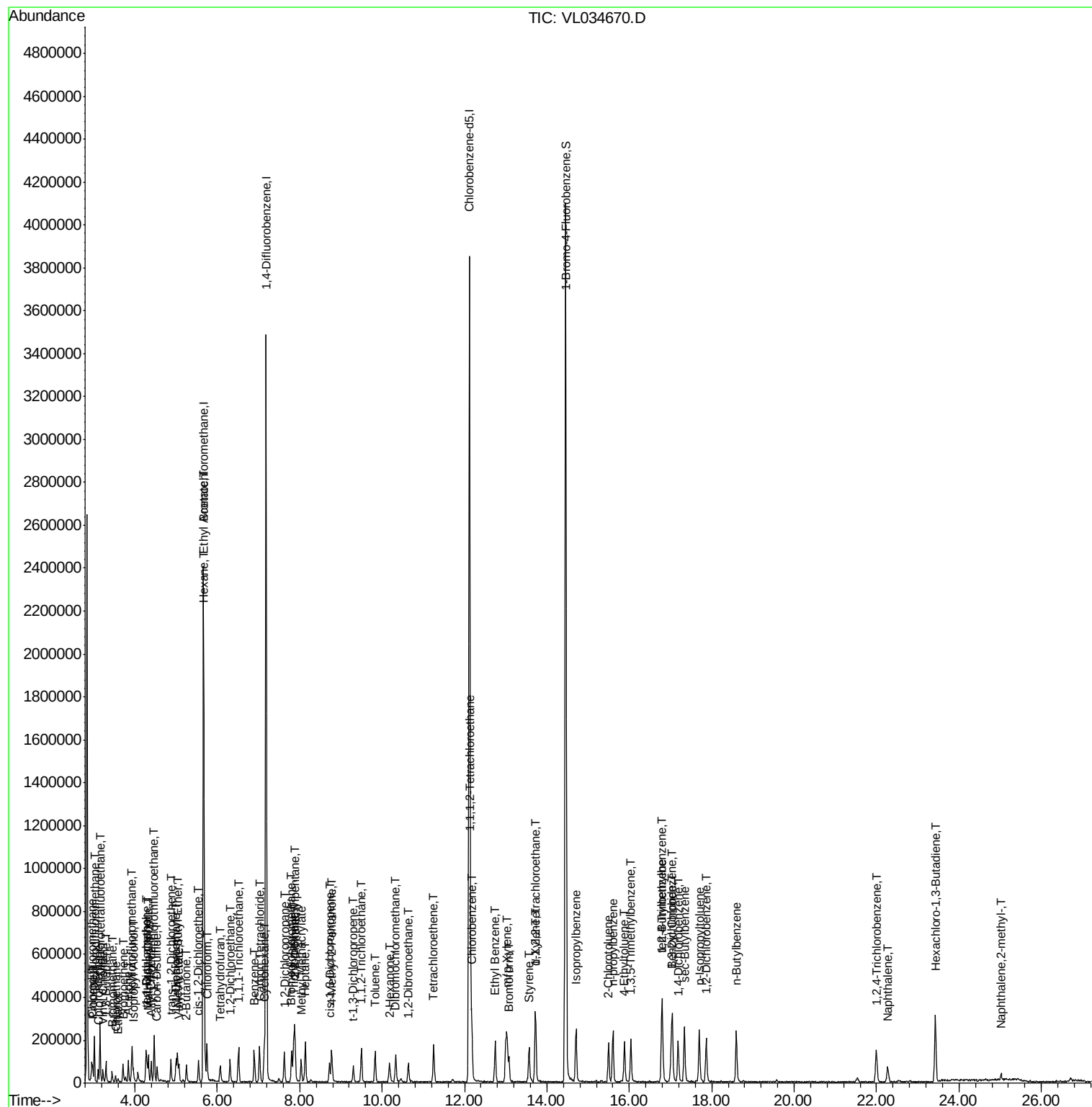
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL022520\
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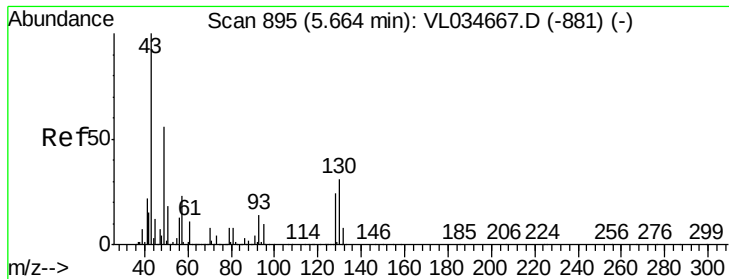
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Feb
QLast Update : Tue Feb 25 12:01:27 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 895

Delta R.T. 0.00 min

Lab File: VL034670.D

Acq: 25 Feb 2020 13:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 49 Resp: 1126075

Ion Ratio Lower Upper

49 100

128 43.6 21.9 65.5

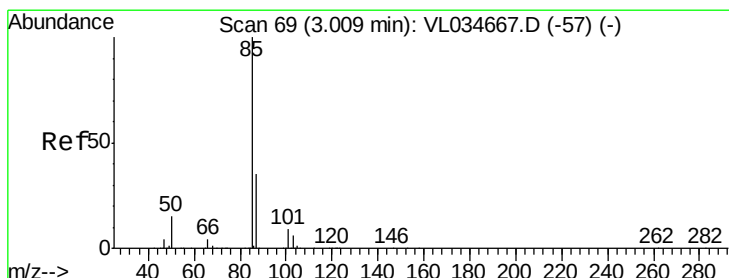
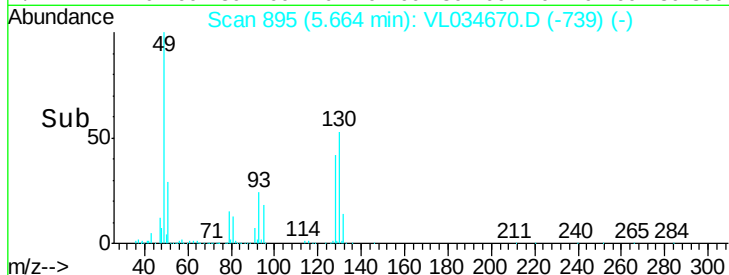
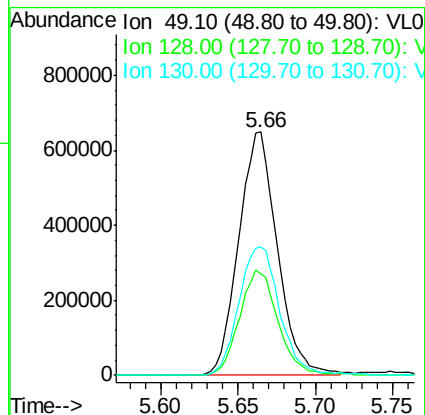
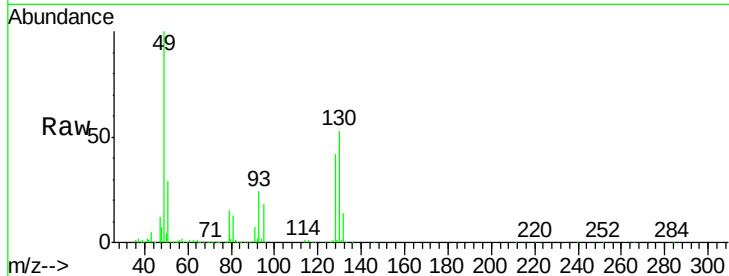
130 56.1 27.9 83.7

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 0.518 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL034670.D

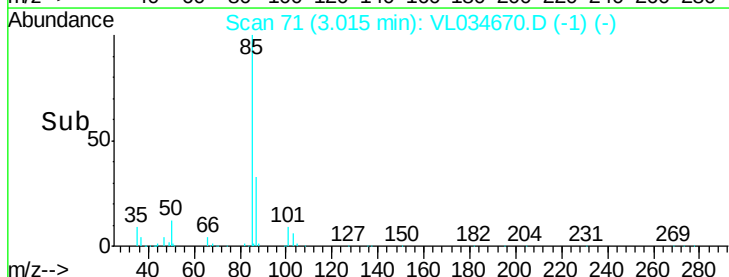
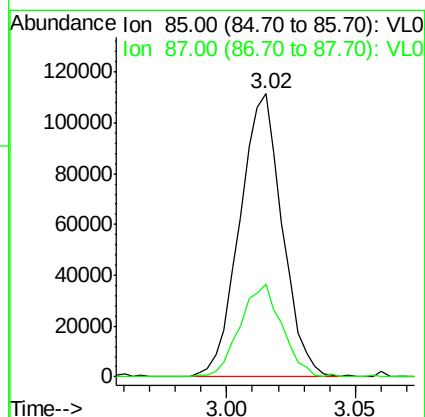
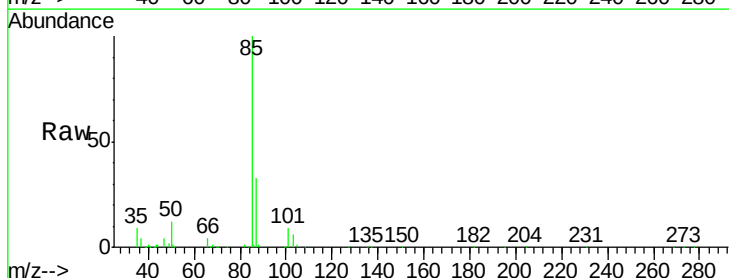
Acq: 25 Feb 2020 13:13

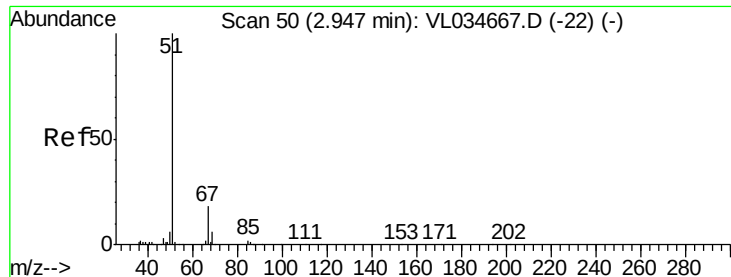
Tgt Ion: 85 Resp: 128558

Ion Ratio Lower Upper

85 100

87 32.7 27.9 41.9





#3

Chlorodifluoromethane

Concen: 0.591 ppbv

RT: 2.95 min Scan# 52

Delta R.T. 0.01 min

Lab File: VL034670.D

Acq: 25 Feb 2020 13:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 51 Resp: 80440

Ion Ratio Lower Upper

51 100

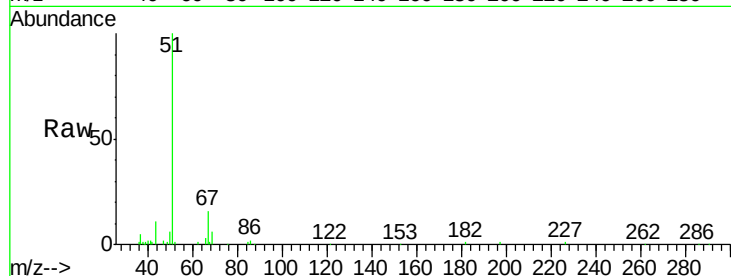
67 18.1 15.0 22.4

Manual Integrations

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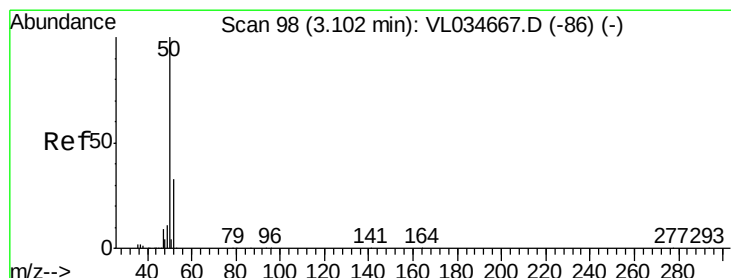
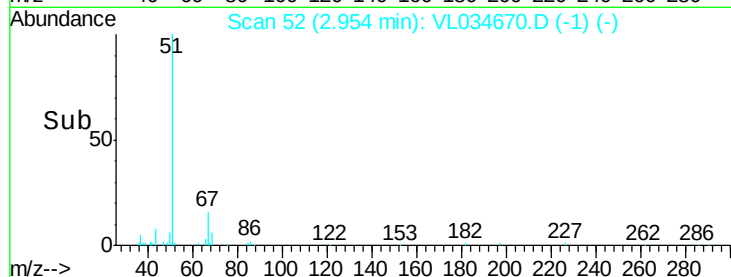
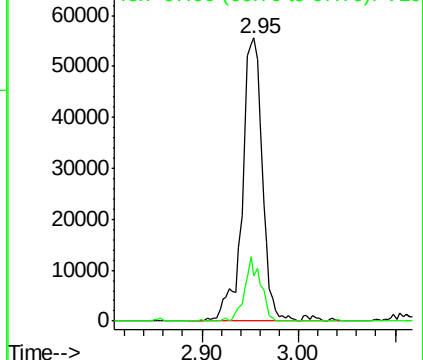
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.556 ppbv

RT: 3.11 min Scan# 99

Delta R.T. 0.00 min

Lab File: VL034670.D

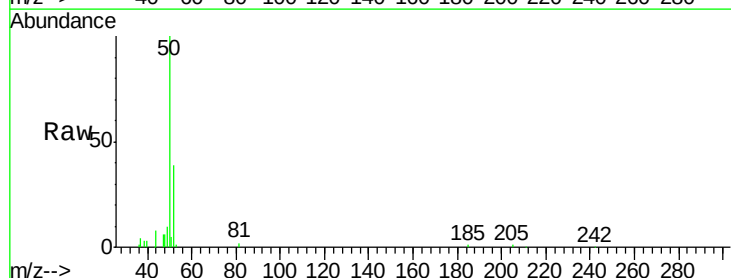
Acq: 25 Feb 2020 13:13

Tgt Ion: 50 Resp: 46291

Ion Ratio Lower Upper

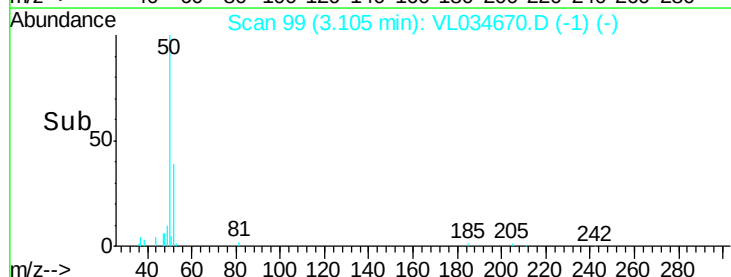
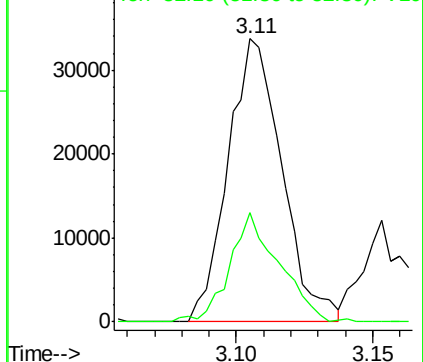
50 100

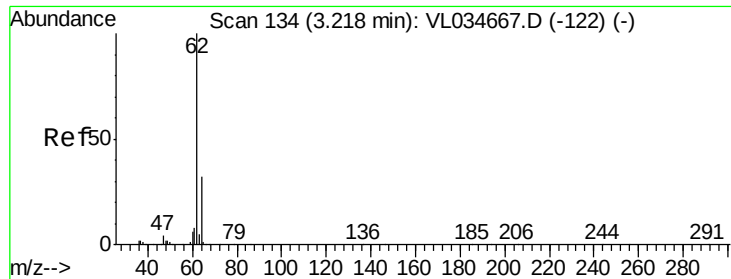
52 38.6 26.2 39.4



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.502 ppbv

RT: 3.23 min Scan# 137

Delta R.T. 0.01 min

Lab File: VL034670.D

Acq: 25 Feb 2020 13:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 39956

Ion Ratio Lower Upper

62 100

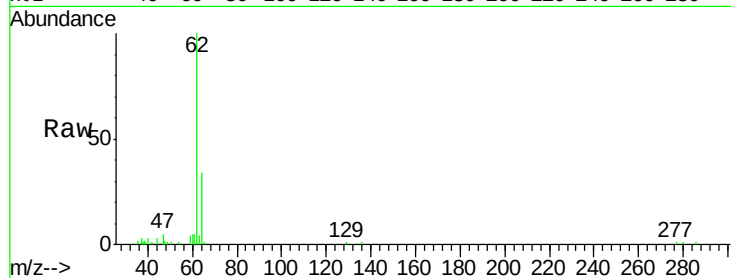
64 34.4 25.7 38.5

Manual Integrations

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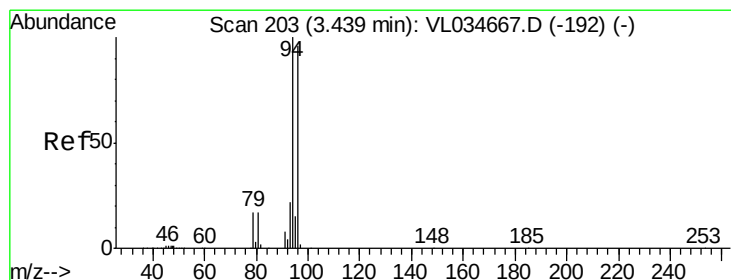
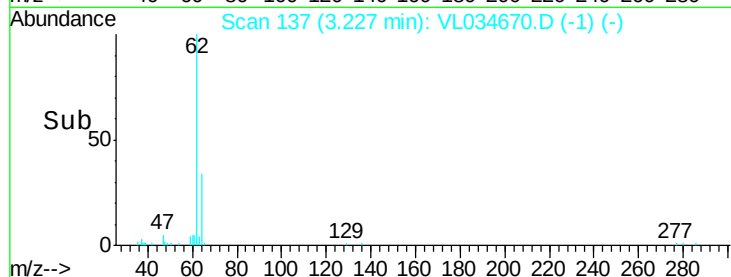
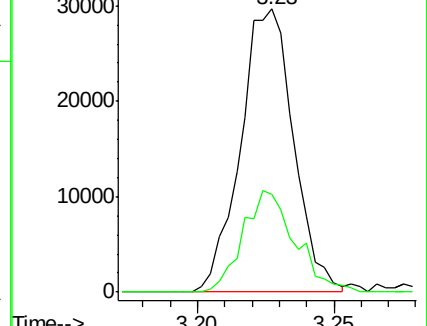
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.540 ppbv m

RT: 3.44 min Scan# 204

Delta R.T. 0.00 min

Lab File: VL034670.D

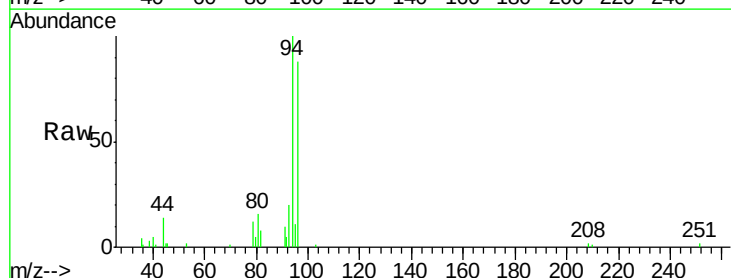
Acq: 25 Feb 2020 13:13

Tgt Ion: 94 Resp: 22348

Ion Ratio Lower Upper

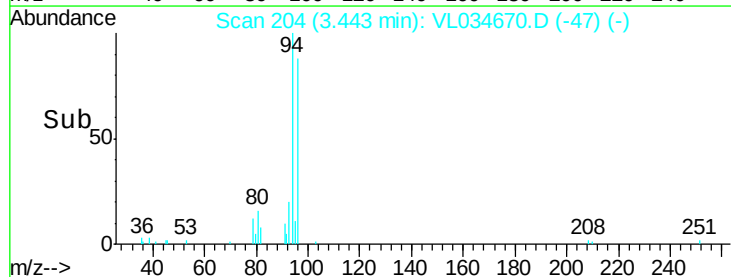
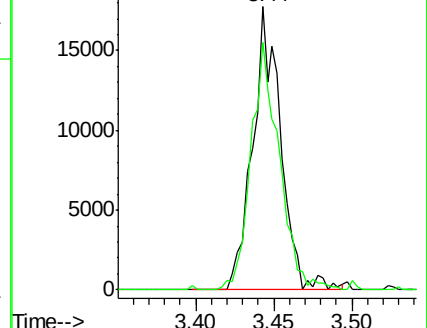
94 100

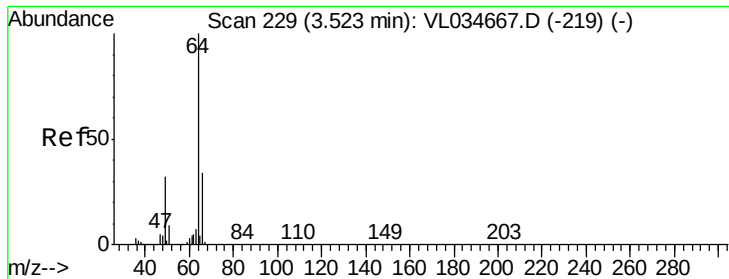
96 87.7 77.0 115.4



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.547 ppbv

RT: 3.53 min Scan# 230

Delta R.T. 0.00 min

Lab File: VL034670.D

Acq: 25 Feb 2020 13:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 64 Resp: 16162

Ion Ratio Lower Upper

64 100

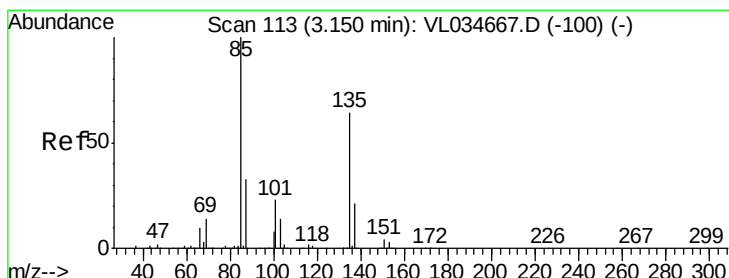
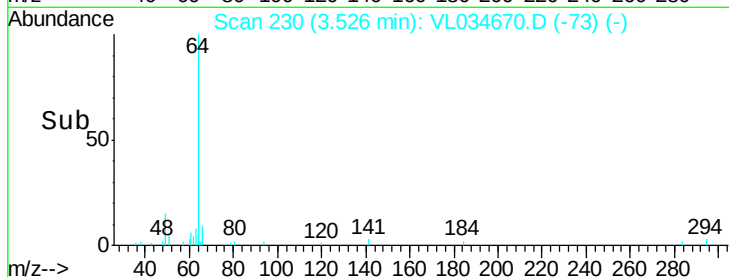
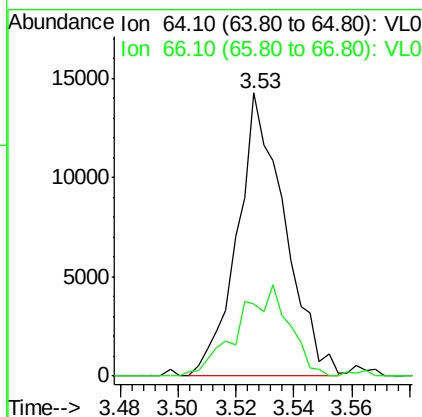
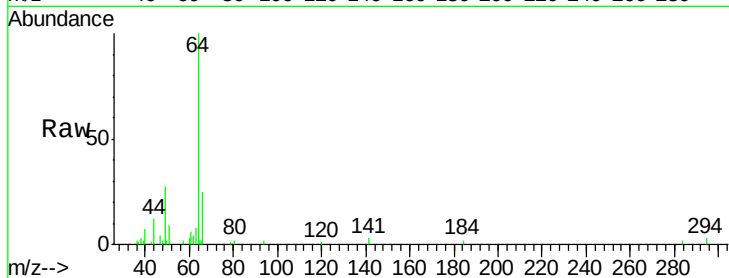
66 25.0 26.9 40.3#

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 0.539 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.00 min

Lab File: VL034670.D

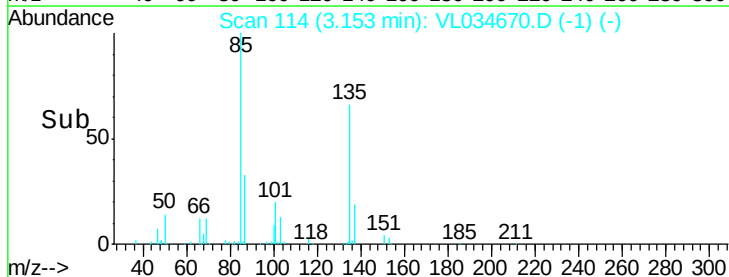
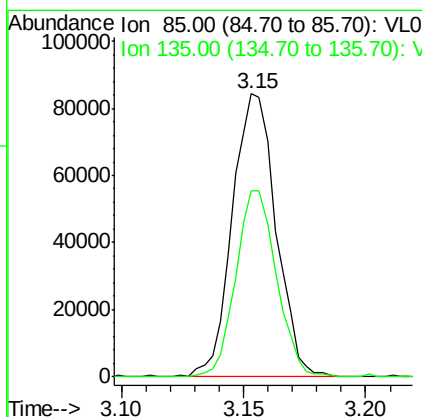
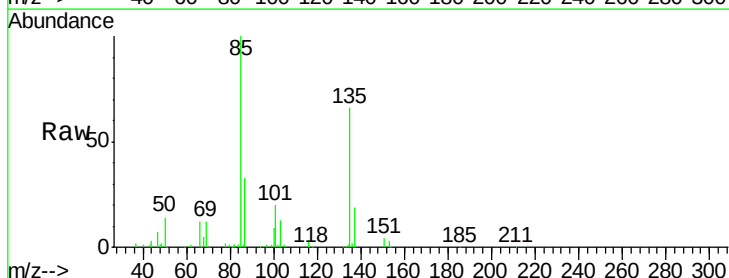
Acq: 25 Feb 2020 13:13

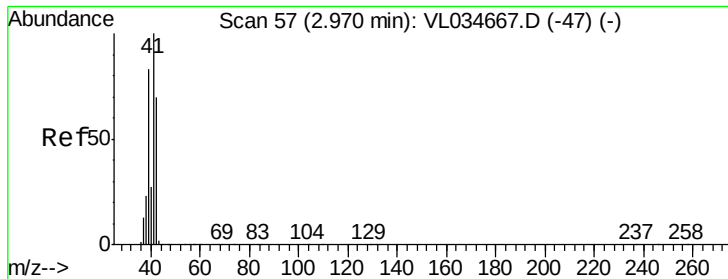
Tgt Ion: 85 Resp: 104454

Ion Ratio Lower Upper

85 100

135 61.8 49.3 73.9





#9

Propene

Concen: 0.515 ppbv

RT: 2.98 min Scan# 59

Delta R.T. 0.01 min

Lab File: VL034670.D

Acq: 25 Feb 2020 13:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 41 Resp: 27303

Ion Ratio Lower Upper

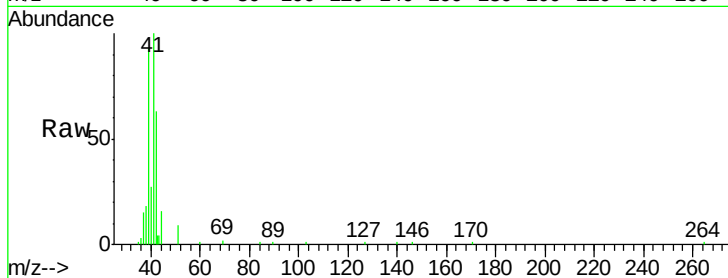
41 100

42 79.7 57.0 85.4

Manual Integrations
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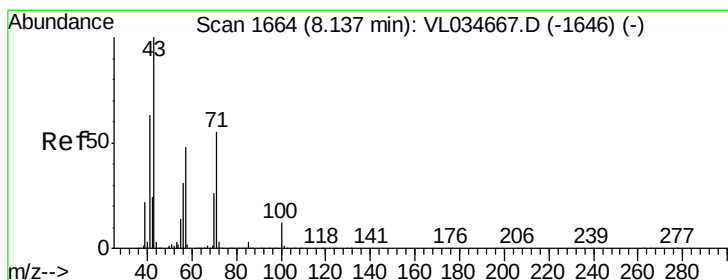
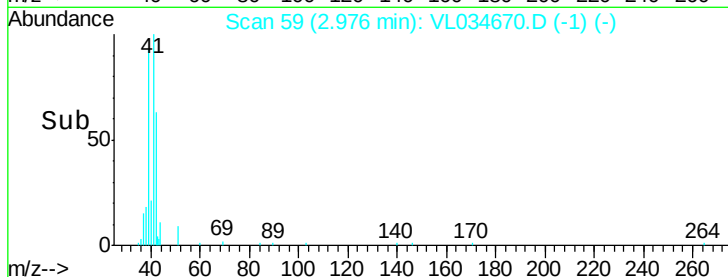
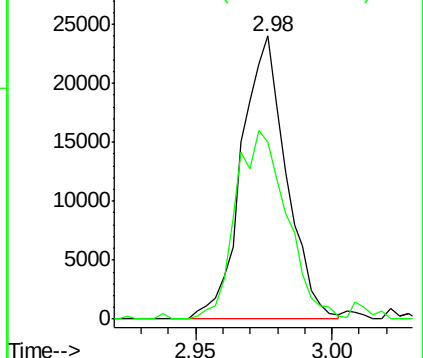
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 0.526 ppbv

RT: 8.13 min Scan# 1663

Delta R.T. -0.00 min

Lab File: VL034670.D

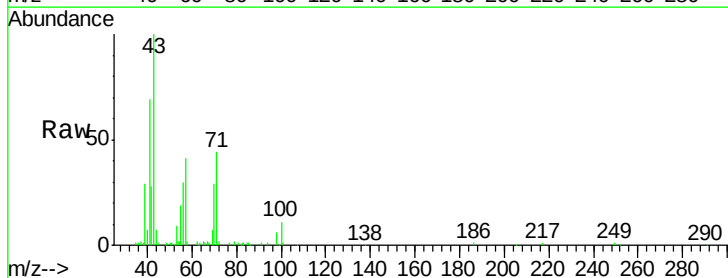
Acq: 25 Feb 2020 13:13

Tgt Ion: 43 Resp: 70133

Ion Ratio Lower Upper

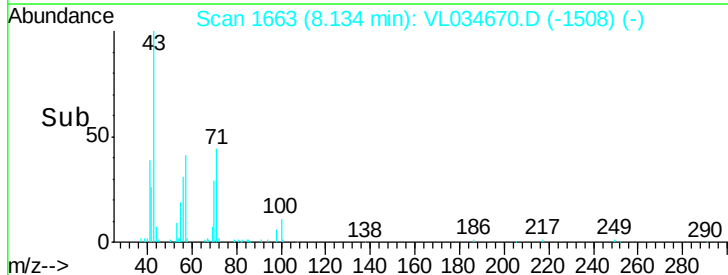
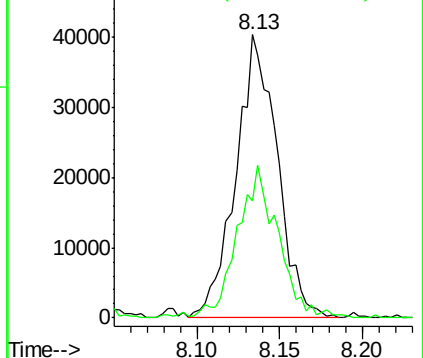
43 100

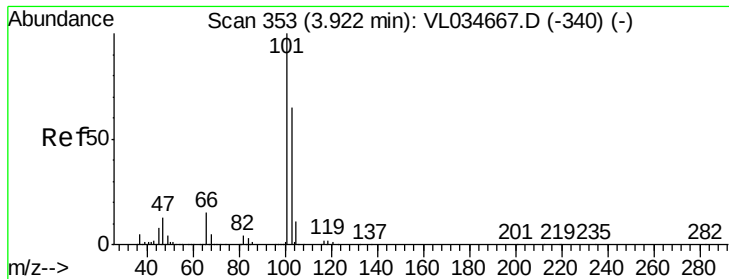
57 53.0 41.7 62.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 0.464 ppbv

RT: 3.93 min Scan# 355

Delta R.T. 0.01 min

Lab File: VL034670.D

Acq: 25 Feb 2020 13:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:101 Resp: 104566

Ion Ratio Lower Upper

101 100

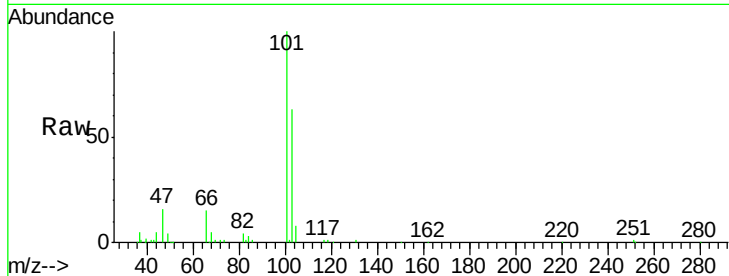
103 62.3 52.3 78.5

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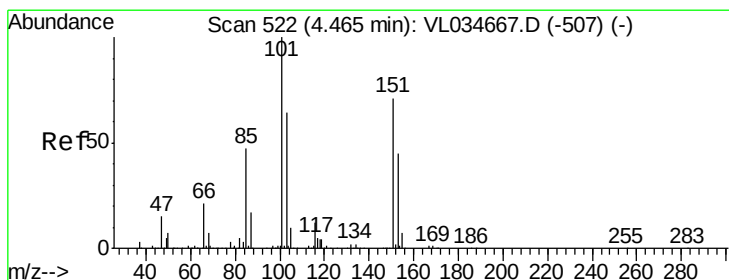
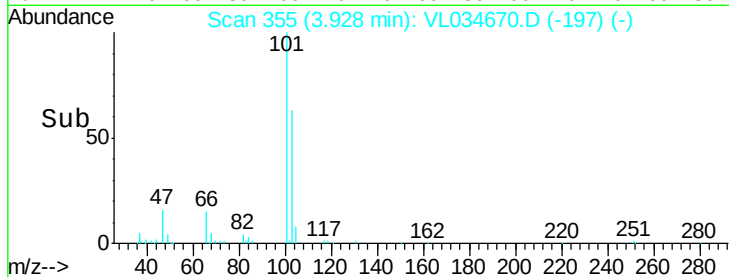
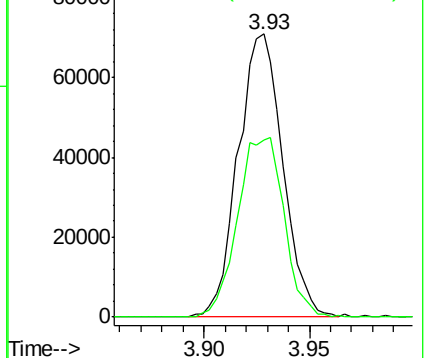
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.505 ppbv

RT: 4.47 min Scan# 523

Delta R.T. 0.00 min

Lab File: VL034670.D

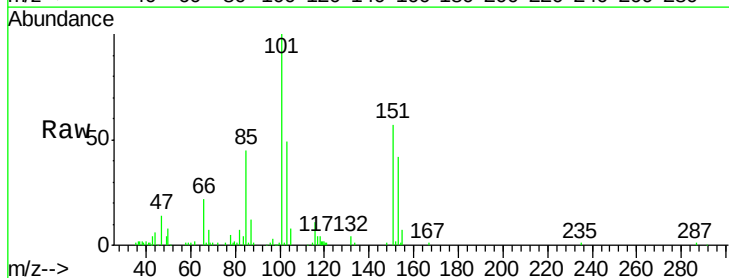
Acq: 25 Feb 2020 13:13

Tgt Ion:101 Resp: 74222

Ion Ratio Lower Upper

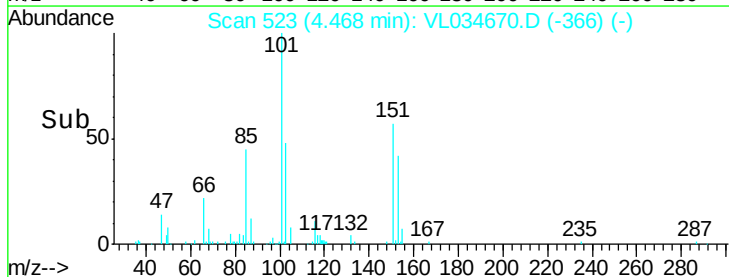
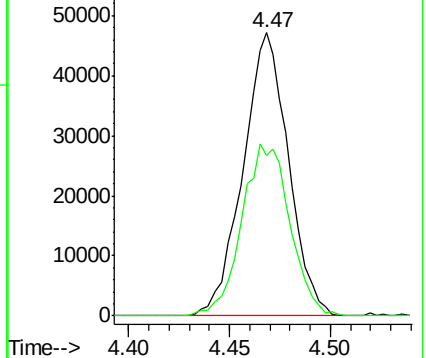
101 100

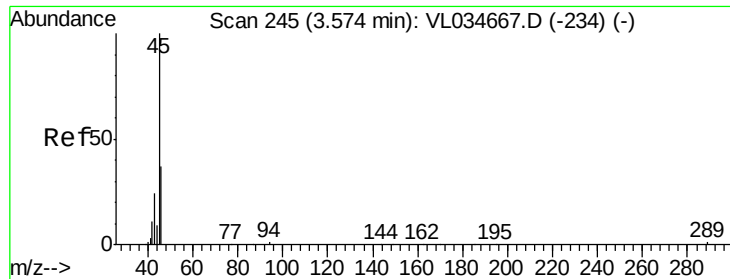
151 64.1 55.5 83.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





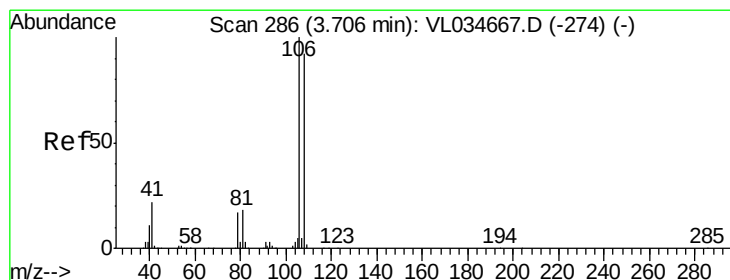
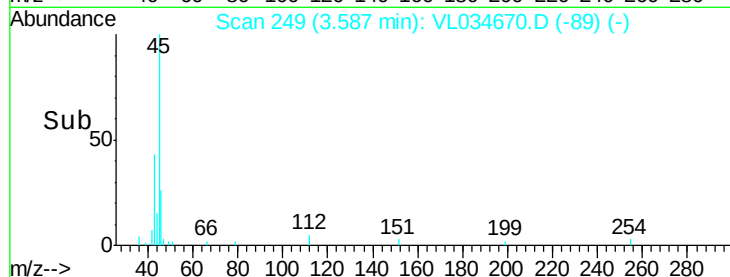
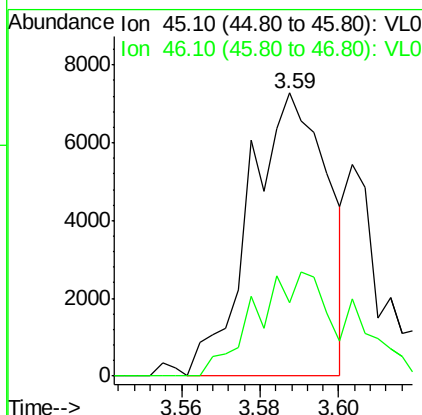
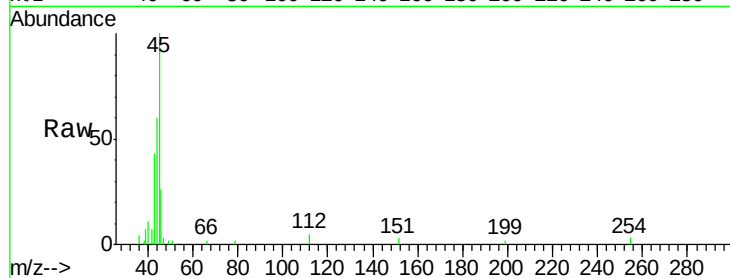
#13
Ethanol
Concen: 0.711 ppbv m
RT: 3.59 min Scan# 249
Delta R.T. 0.01 min
Lab File: VL034670.D
Acq: 25 Feb 2020 13:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
45	100		
46	43.2	15.1	60.5

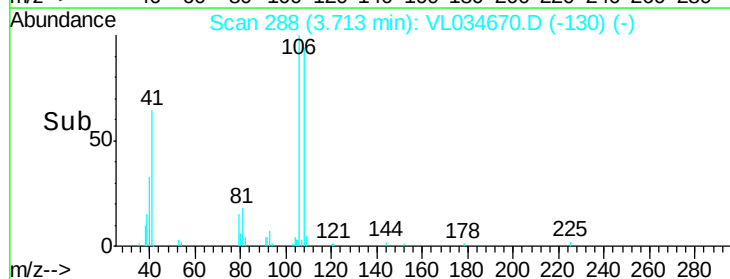
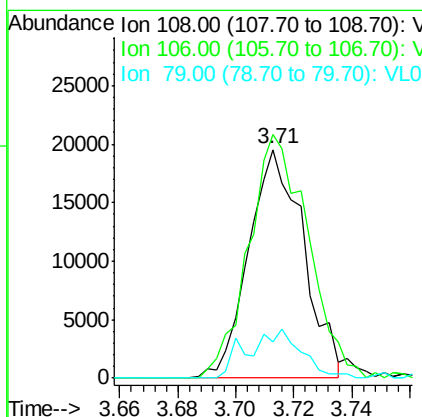
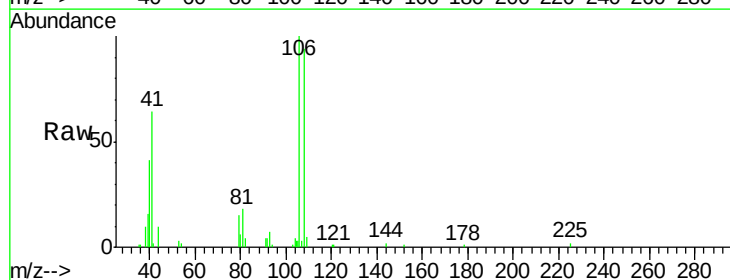
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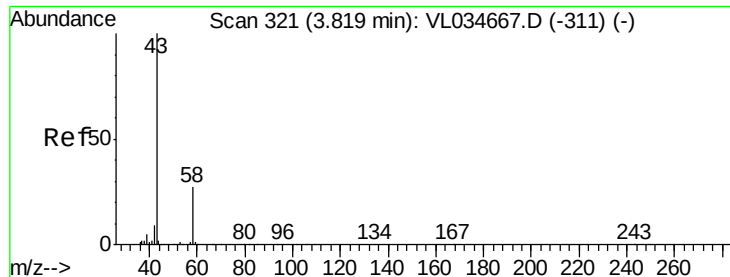
MMDadoda
2/26/2020 12:38:47 PM



#14
Bromoethene
Concen: 0.444 ppbv
RT: 3.71 min Scan# 288
Delta R.T. 0.01 min
Lab File: VL034670.D
Acq: 25 Feb 2020 13:13

Tgt Ion	Ratio	Lower	Upper
108	100		
106	116.4	86.4	129.6
79	21.0	14.6	22.0





#15

Acetone

Concen: 0.565 ppbv

RT: 3.84 min Scan# 327

Delta R.T. 0.02 min

Lab File: VL034670.D

Acq: 25 Feb 2020 13:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 43 Resp: 93491

Ion Ratio Lower Upper

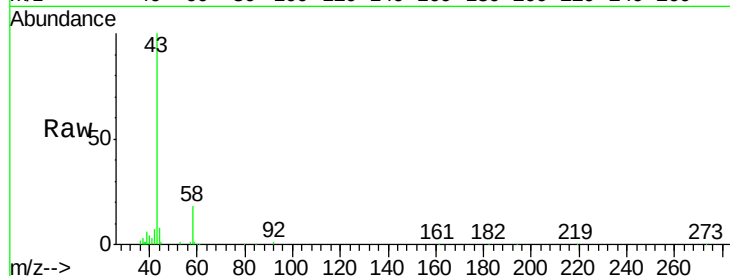
43 100

58 28.3 21.4 32.0

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.84

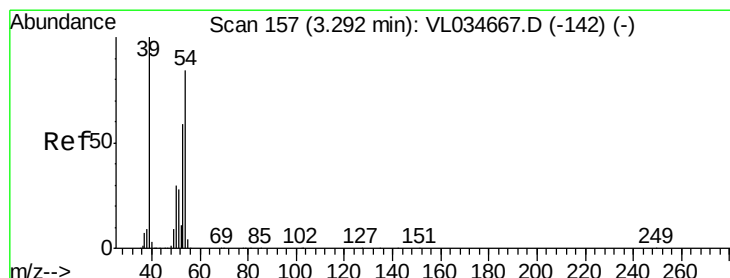
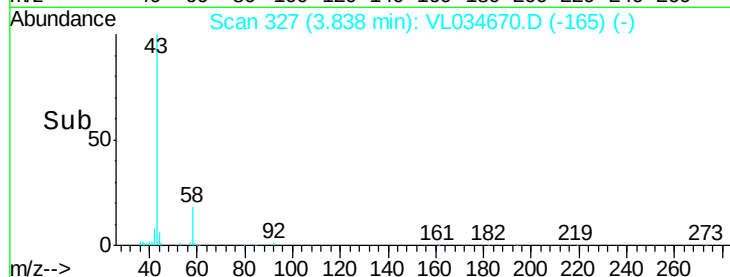
60000

40000

20000

0

Time-->



#16

1,3-Butadiene

Concen: 0.530 ppbv

RT: 3.29 min Scan# 158

Delta R.T. 0.00 min

Lab File: VL034670.D

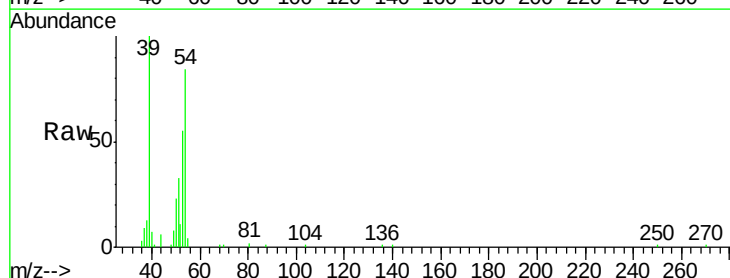
Acq: 25 Feb 2020 13:13

Tgt Ion: 39 Resp: 34806

Ion Ratio Lower Upper

39 100

54 87.3 68.2 102.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.29

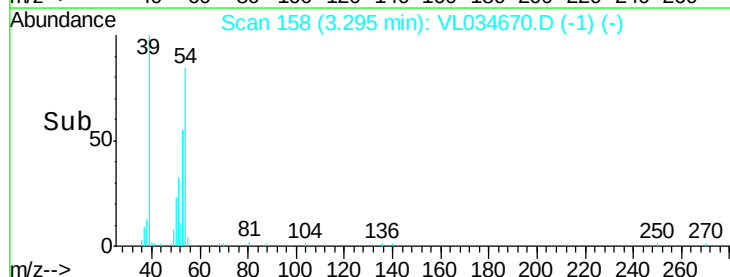
30000

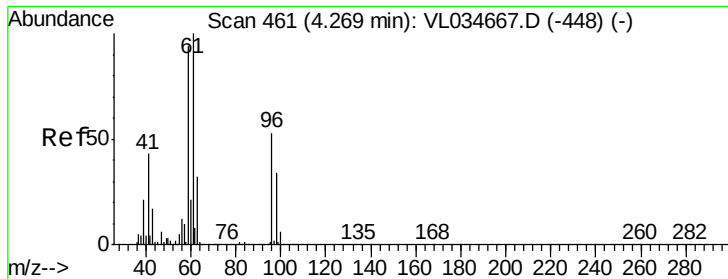
20000

10000

0

Time-->





#17

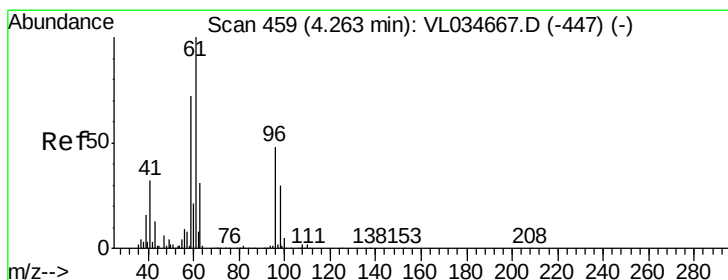
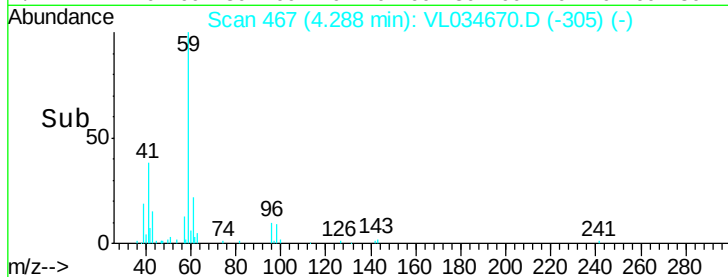
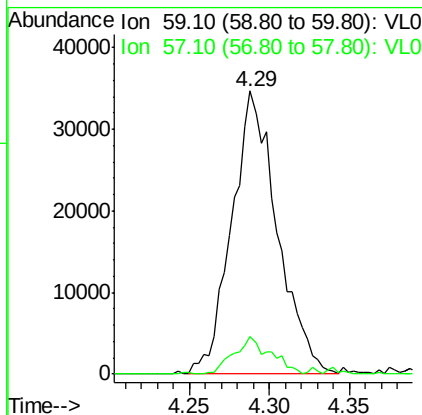
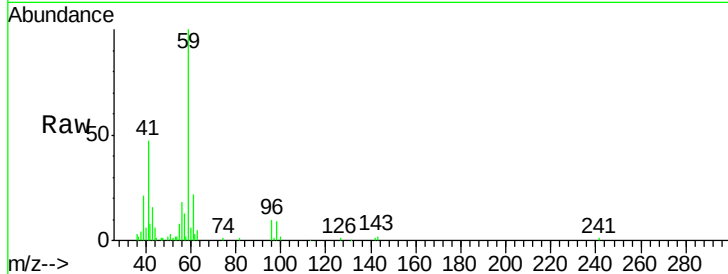
tert-Butyl alcohol
Concen: 0.553 ppbv
RT: 4.29 min Scan# 467
Delta R.T. 0.02 min
Lab File: VL034670.D
Acq: 25 Feb 2020 13:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	59	Resp	67310
Ion	Ratio	Lower	Upper
59	100		
57	11.8	8.8	13.2

Manual Integrations
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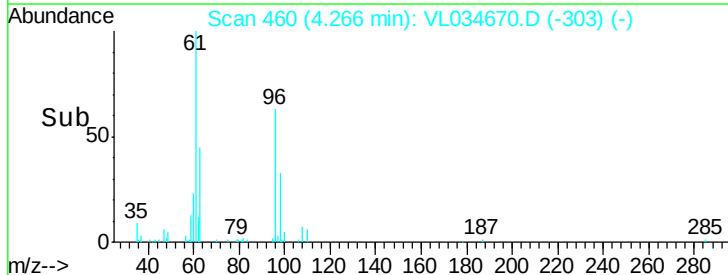
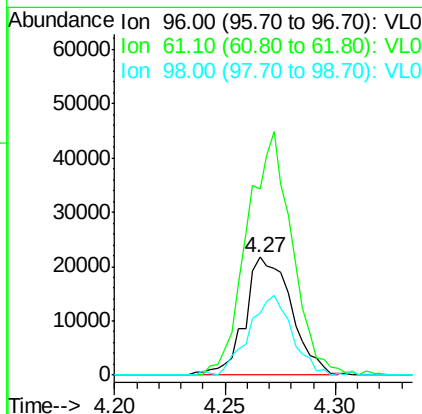
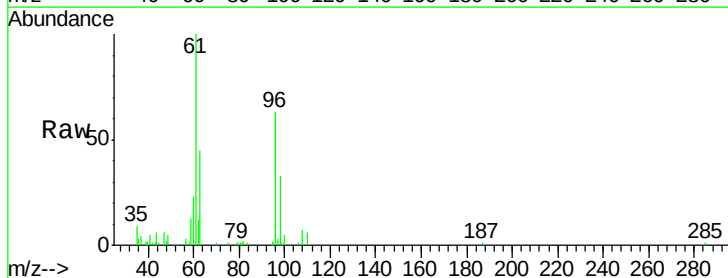
MMDadoda
2/26/2020 12:38:47 PM

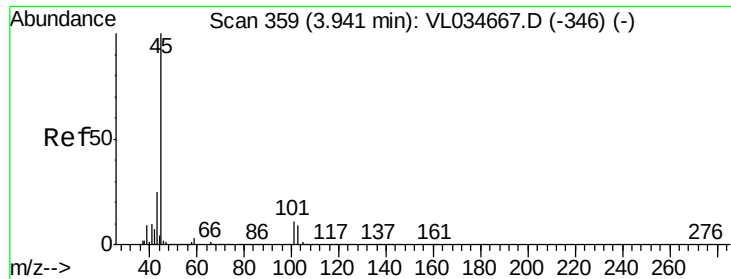


#18

1,1-Dichloroethene
Concen: 0.512 ppbv
RT: 4.27 min Scan# 460
Delta R.T. 0.00 min
Lab File: VL034670.D
Acq: 25 Feb 2020 13:13

Tgt Ion	96	Resp	31767
Ion	Ratio	Lower	Upper
96	100		
61	157.8	165.3	247.9#
98	54.1	48.9	73.3





#19

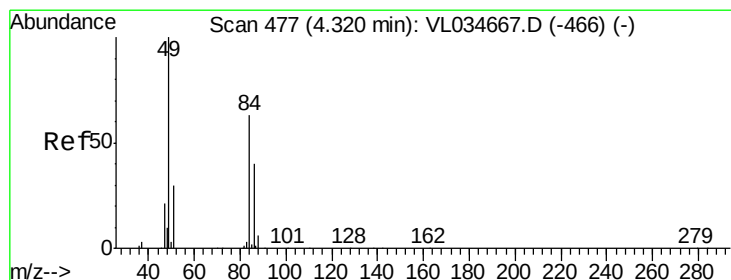
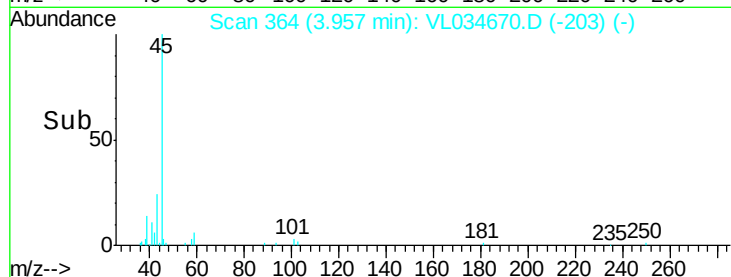
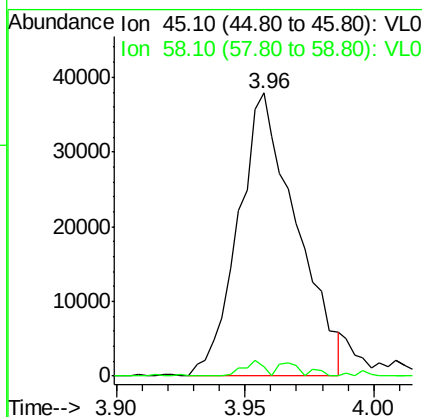
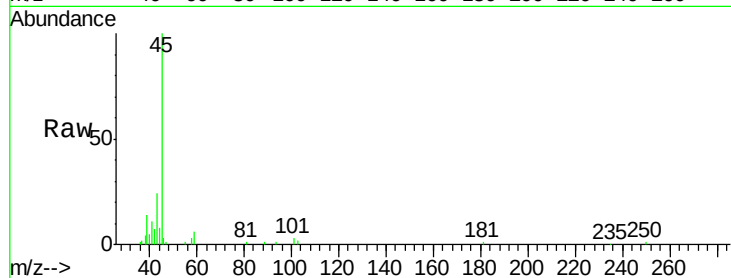
Isopropyl Alcohol
 Concen: 0.618 ppbv
 RT: 3.96 min Scan# 364
 Delta R.T. 0.02 min
 Lab File: VL034670.D
 Acq: 25 Feb 2020 13:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
45	100		
58	4.4	1.8	2.8#

Manual Integrations
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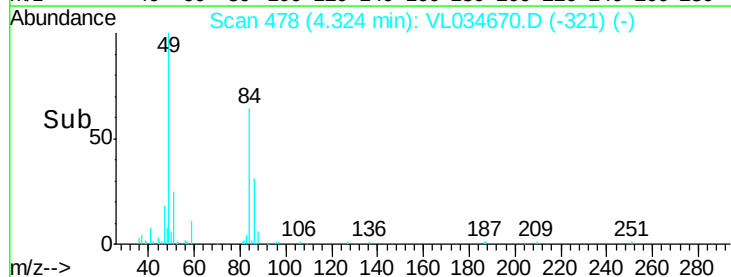
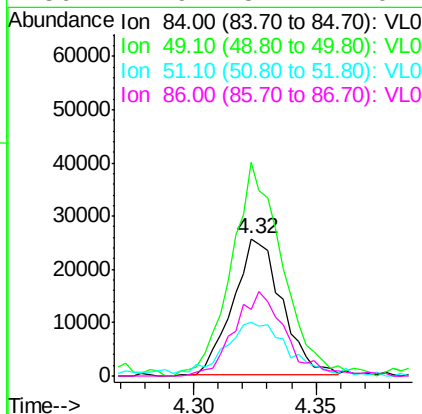
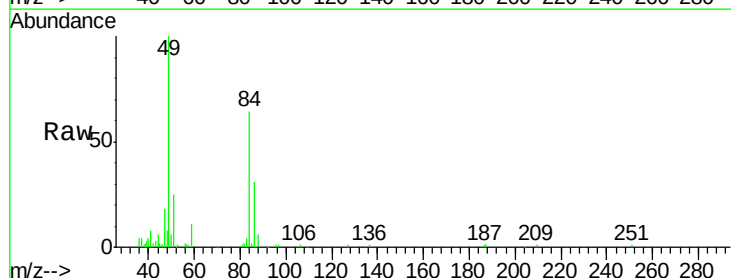
MMDadoda
 2/26/2020 12:38:47 PM

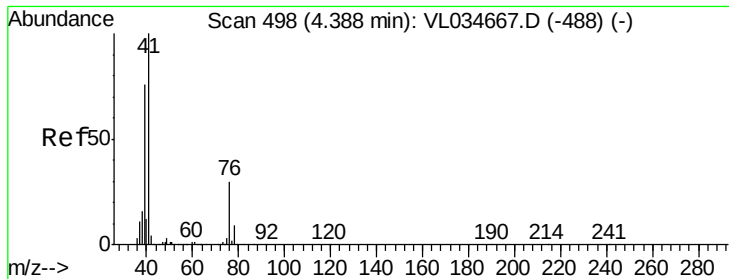


#20

Methylene Chloride
 Concen: 0.560 ppbv
 RT: 4.32 min Scan# 478
 Delta R.T. 0.00 min
 Lab File: VL034670.D
 Acq: 25 Feb 2020 13:13

Tgt Ion	Ratio	Lower	Upper
84	100		
49	150.8	127.6	191.4
51	37.2	39.7	59.5#
86	47.9	51.1	76.7#





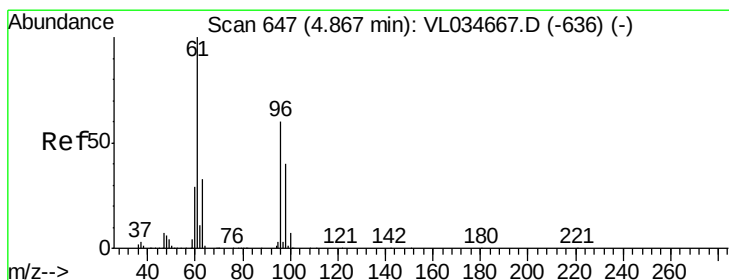
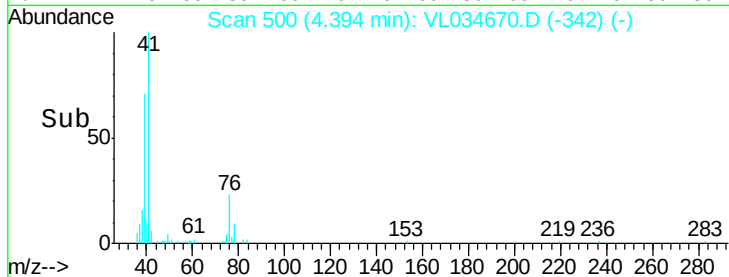
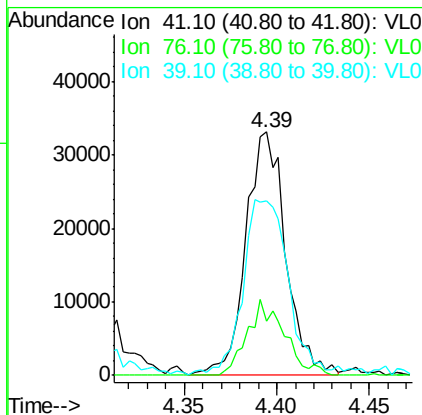
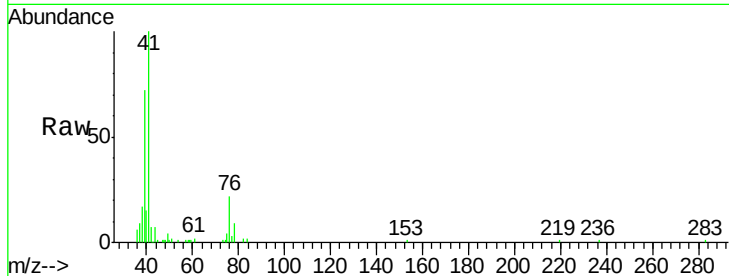
#21
Allvl Chloride
Concen: 0.481 ppbv
RT: 4.39 min Scan# 500
Delta R.T. 0.01 min
Lab File: VL034670.D
Acq: 25 Feb 2020 13:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion:	41	Resp:	49402
Ion	Ratio	Lower	Upper
41	100		
76	28.9	23.6	35.4
39	77.8	61.6	92.4

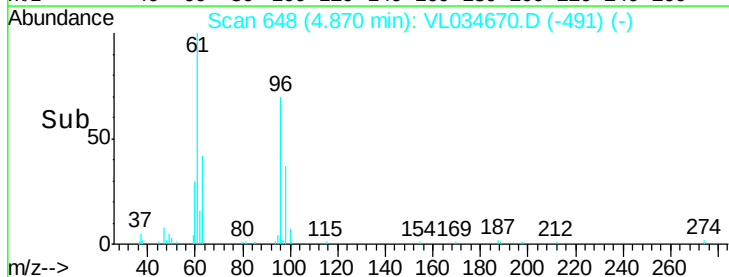
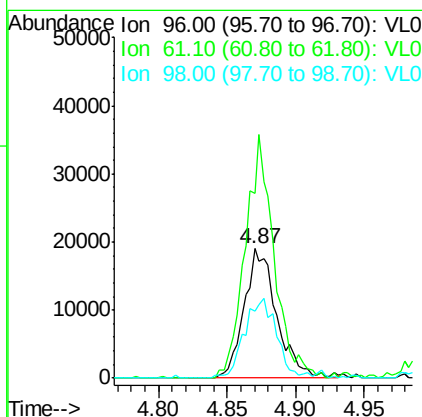
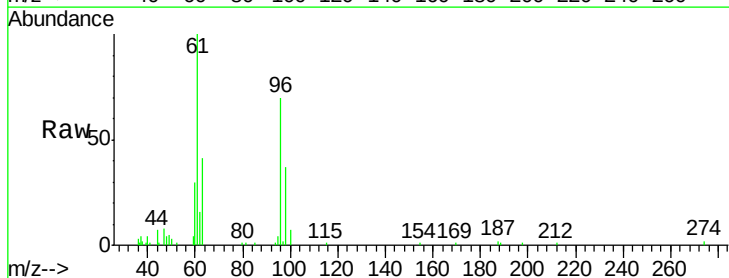
Manual Integrations
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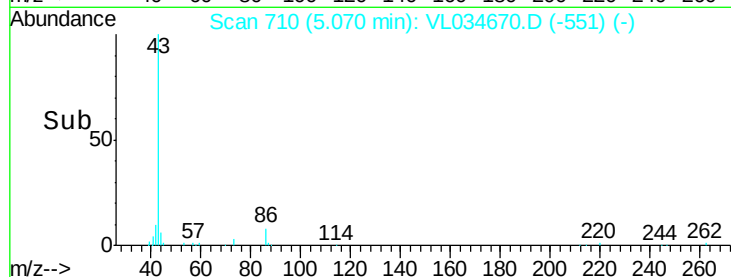
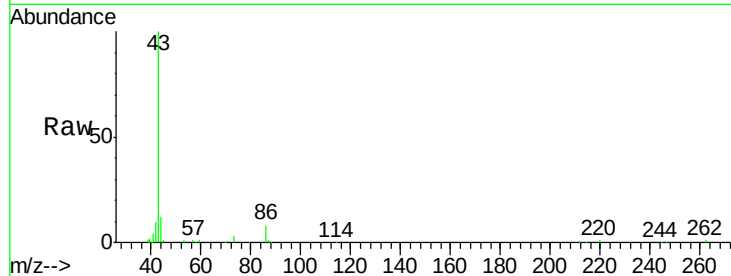
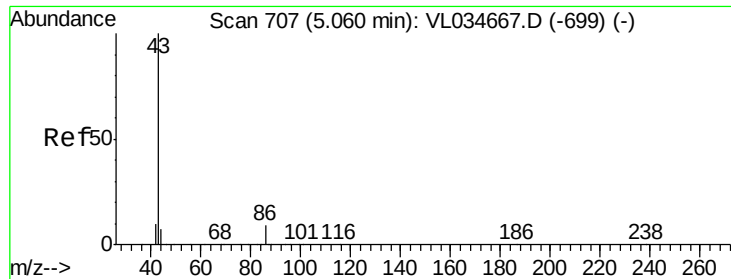
MMDadoda
2/26/2020 12:38:47 PM



#22
trans-1,2-Dichloroethene
Concen: 0.483 ppbv m
RT: 4.87 min Scan# 648
Delta R.T. 0.00 min
Lab File: VL034670.D
Acq: 25 Feb 2020 13:13

Tgt Ion:	96	Resp:	31407
Ion	Ratio	Lower	Upper
96	100		
61	142.6	134.3	201.5
98	52.1	53.8	80.8#





#23

Vinyl Acetate

Concen: 0.495 ppbv

RT: 5.07 min Scan# 710

Delta R.T. 0.01 min

Lab File: VL034670.D

Acq: 25 Feb 2020 13:13

Tot Ion	43	Resp	93432
Ion Ratio	Lower	Upper	
43	100		
86	7.9	6.3	9.5
42	6.1	8.6	12.8#
44	9.8	4.9	7.3#

Instrument :

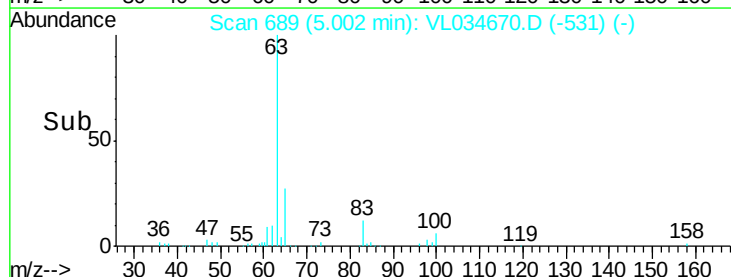
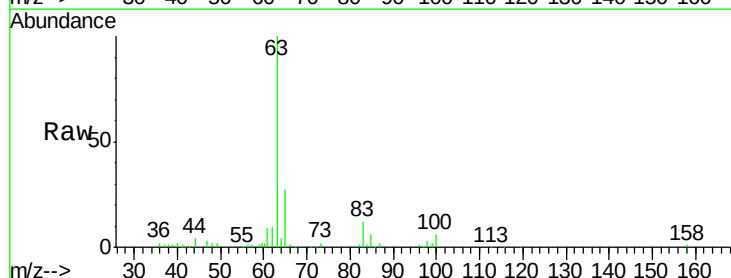
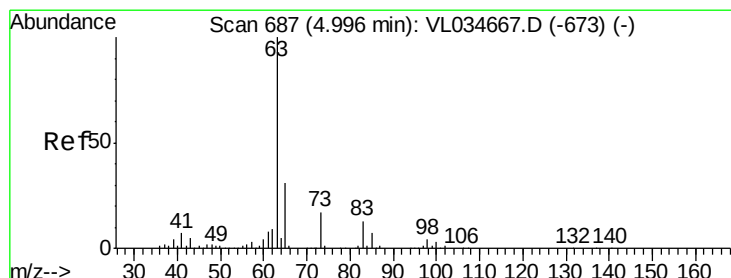
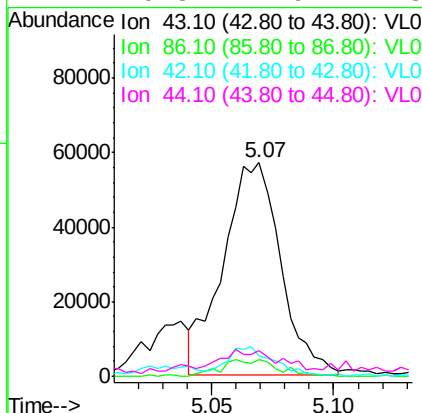
MSVOA_L

ClientSampleId :

VSTDIC0.5

Manual Integrations
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#24

1,1-Dichloroethane

Concen: 0.578 ppbv

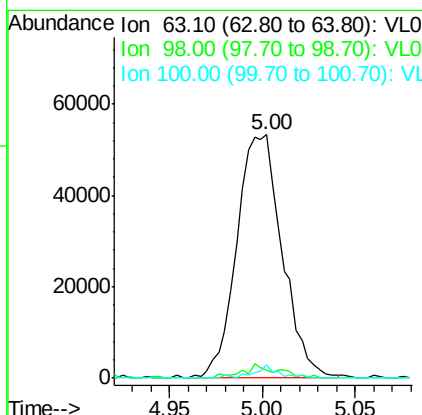
RT: 5.00 min Scan# 689

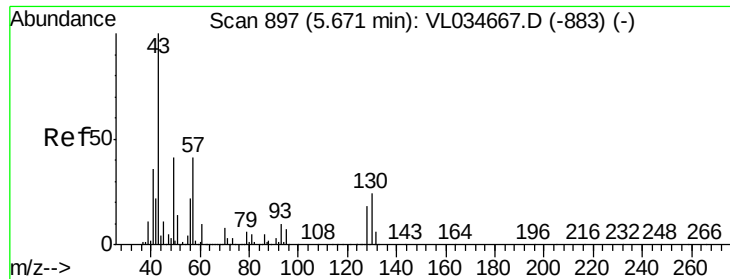
Delta R.T. 0.01 min

Lab File: VL034670.D

Acq: 25 Feb 2020 13:13

Tgt Ion	63	Resp	91043
Ion Ratio	Lower	Upper	
63	100		
98	3.4	2.2	6.6
100	5.5	1.4	4.2#





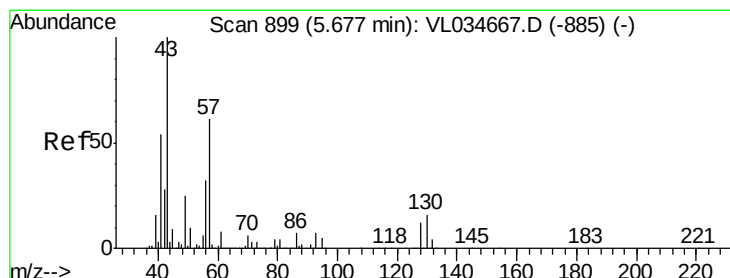
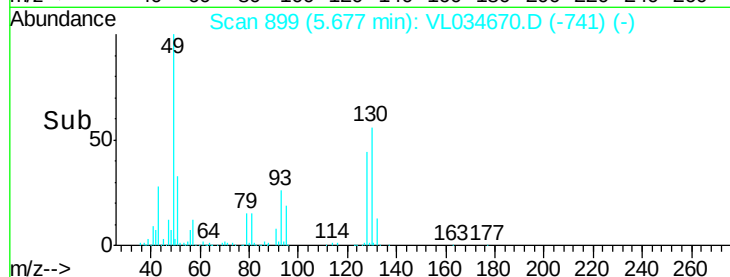
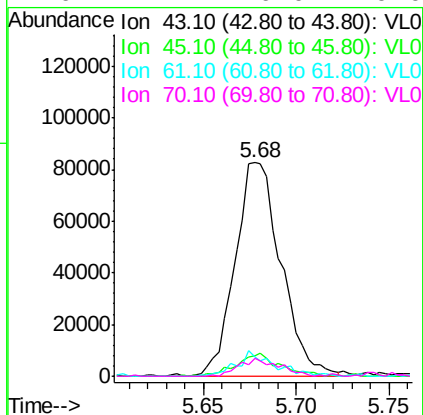
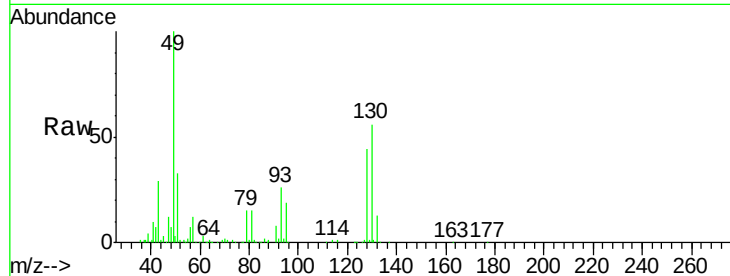
#25
Ethyl Acetate
Concen: 0.529 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.01 min
Lab File: VL034670.D
Acq: 25 Feb 2020 13:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion:	43	Resp:	141644
Ion	Ratio	Lower	Upper
43	100		
45	10.6	8.3	12.5
61	10.0	7.8	11.6
70	7.4	6.0	9.0

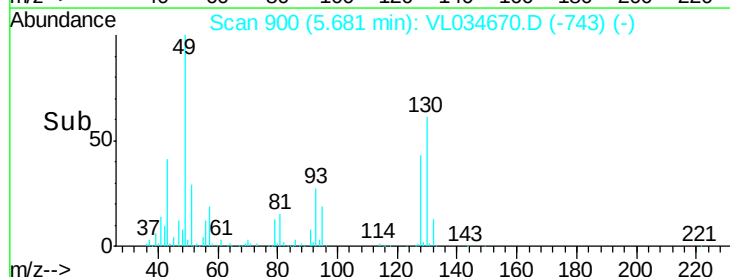
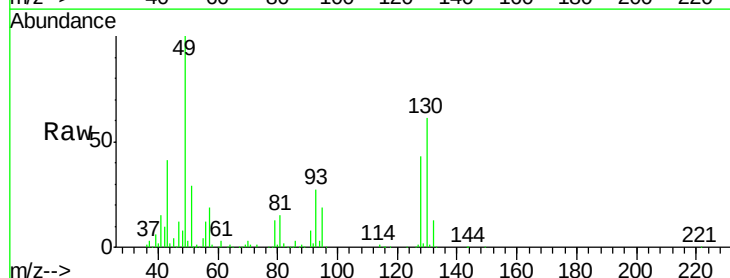
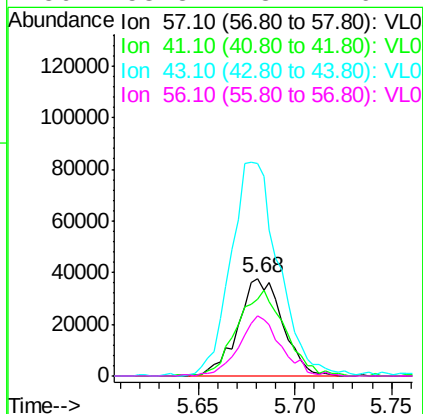
Manual Integrations
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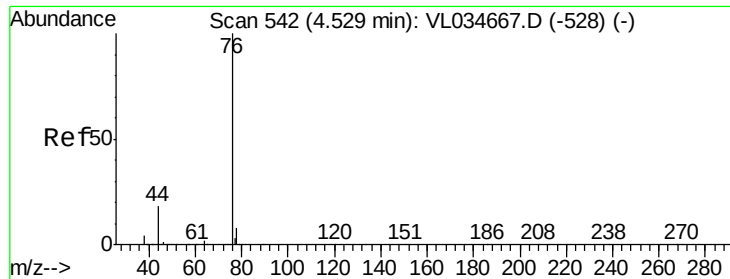
MMDadoda
2/26/2020 12:38:47 PM



#26
Hexane
Concen: 0.538 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.00 min
Lab File: VL034670.D
Acq: 25 Feb 2020 13:13

Tgt Ion:	57	Resp:	60328
Ion	Ratio	Lower	Upper
57	100		
41	95.7	72.0	108.0
43	239.8	178.7	268.1
56	58.3	43.1	64.7





#27

Carbon Disulfide

Concen: 0.441 ppbv

RT: 4.54 min Scan# 544

Delta R.T. 0.01 min

Lab File: VL034670.D

Acq: 25 Feb 2020 13:13

Instrument :

MSVOA_L

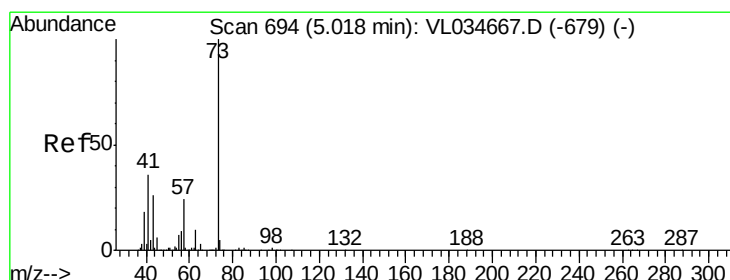
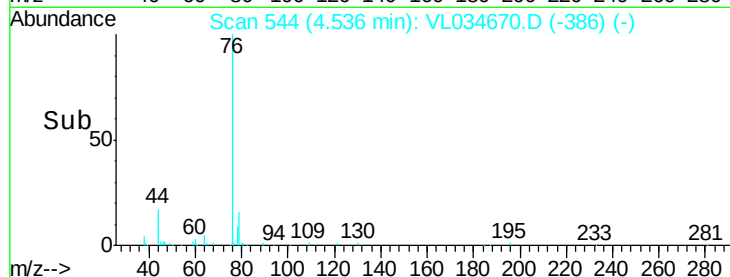
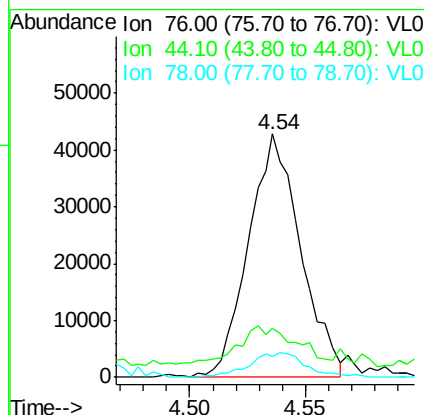
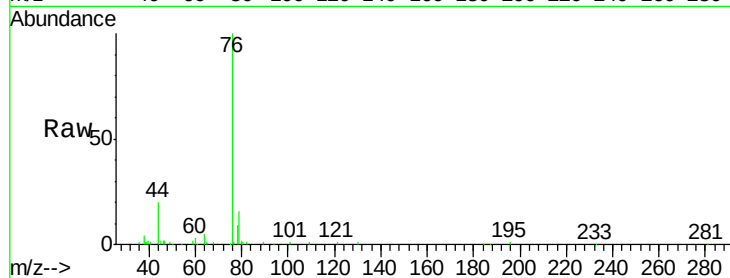
ClientSampleId :

VSTDIC0.5

Tot Ion:	76	Resp:	66718
Ion	Ratio	Lower	Upper
76	100		
44	24.3	15.0	22.4#
78	11.2	7.7	11.5

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 0.448 ppbv

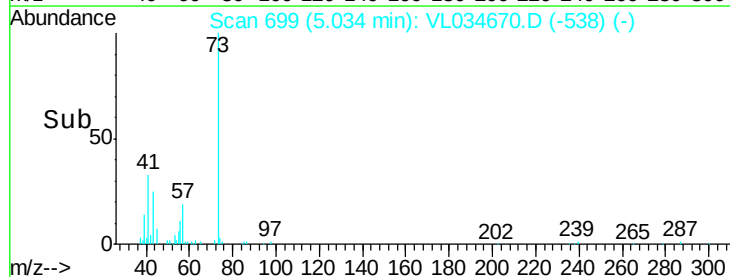
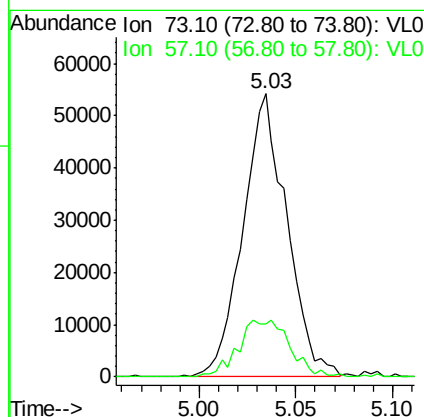
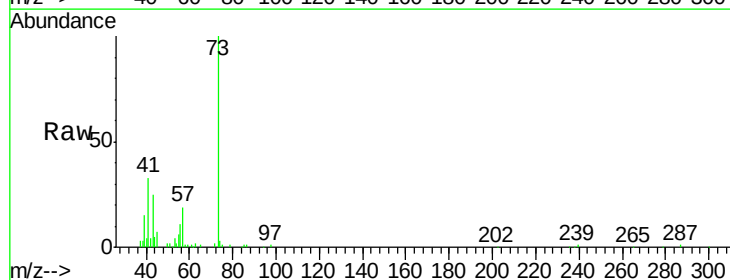
RT: 5.03 min Scan# 699

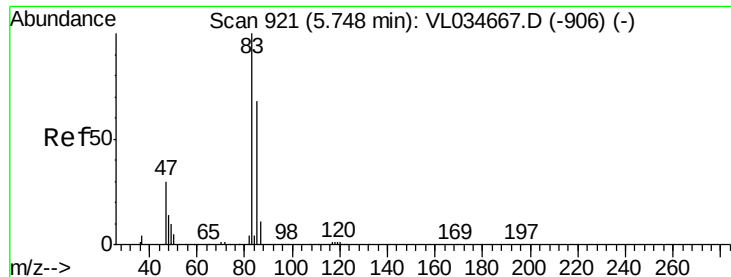
Delta R.T. 0.02 min

Lab File: VL034670.D

Acq: 25 Feb 2020 13:13

Tgt Ion:	73	Resp:	85703
Ion	Ratio	Lower	Upper
73	100		
57	23.7	18.7	28.1





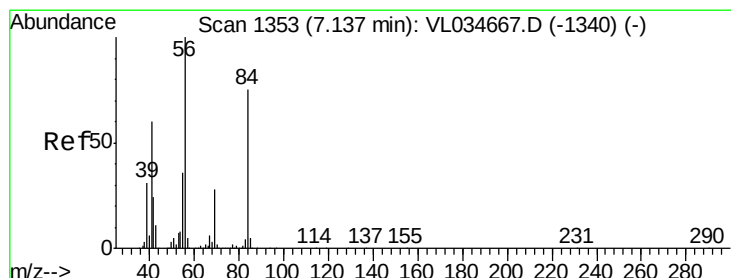
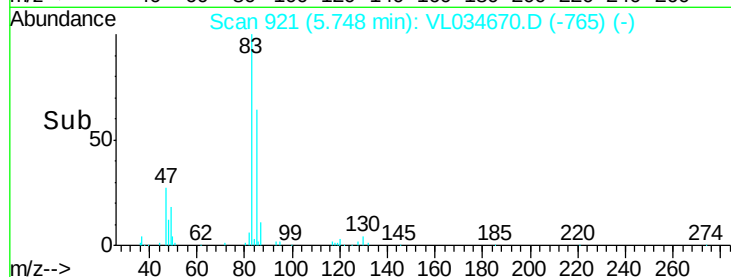
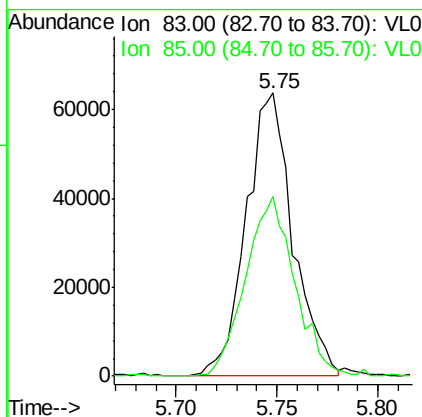
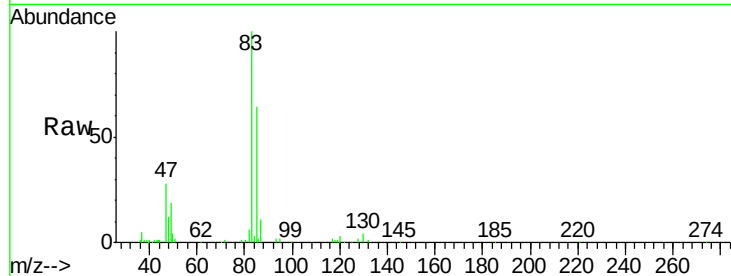
#29
Chloroform
Concen: 0.521 ppbv
RT: 5.75 min Scan# 921
Delta R.T. 0.00 min
Lab File: VL034670.D
Acq: 25 Feb 2020 13:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	83	Resp	103399
Ion Ratio	Lower	Upper	
83	100		
85	63.7	54.7	82.1

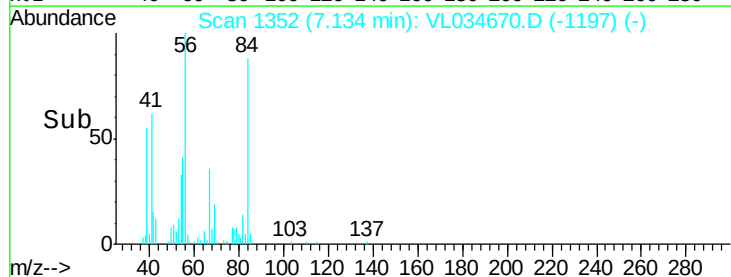
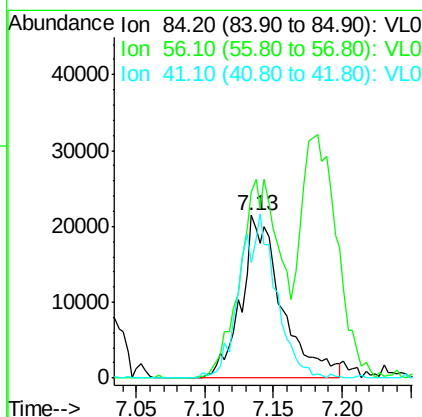
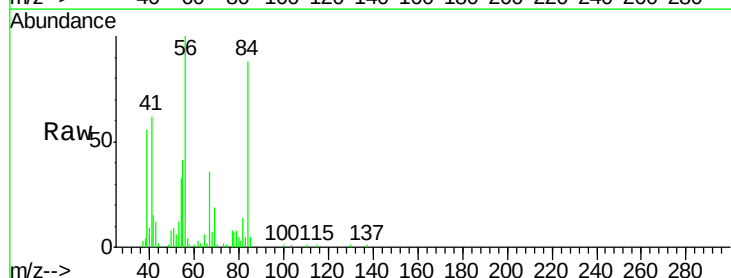
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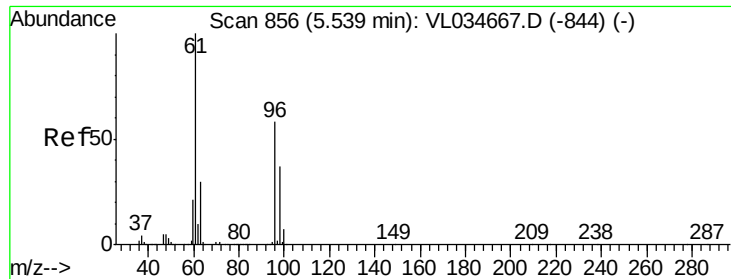
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#30
Cyclohexane
Concen: 0.529 ppbv m
RT: 7.13 min Scan# 1352
Delta R.T. -0.00 min
Lab File: VL034670.D
Acq: 25 Feb 2020 13:13

Tgt Ion	84	Resp	43992
Ion Ratio	Lower	Upper	
84	100		
56	0.0	113.4	170.2#
41	0.0	69.5	104.3#





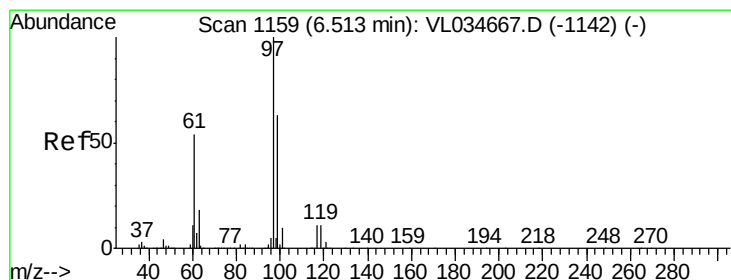
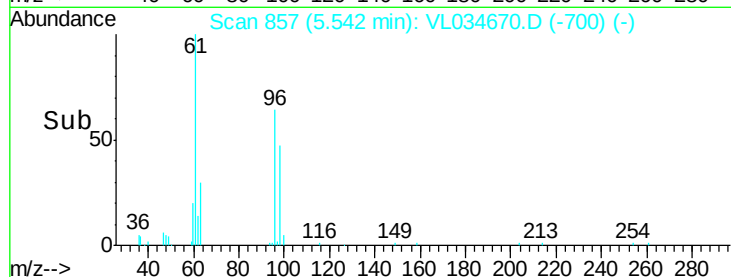
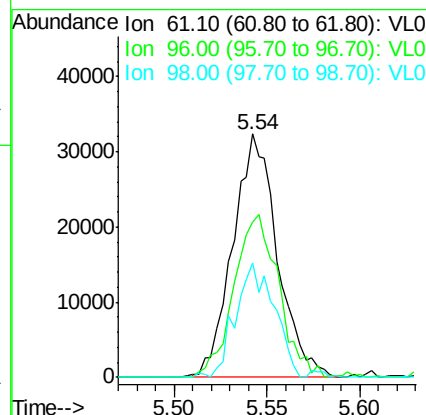
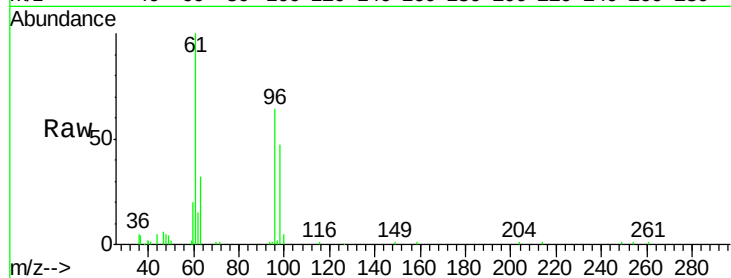
#31
 cis-1,2-Dichloroethene
 Concen: 0.463 ppbv
 RT: 5.54 min Scan# 857
 Delta R.T. 0.00 min
 Lab File: VL034670.D
 Acq: 25 Feb 2020 13:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
61	100		
96	63.9	46.6	69.8
98	47.1	29.3	43.9

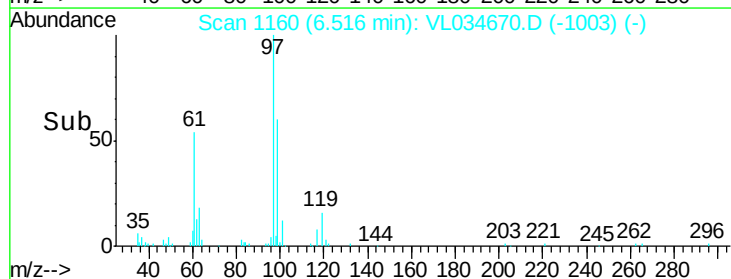
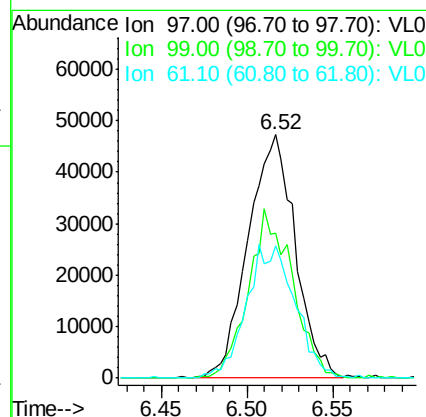
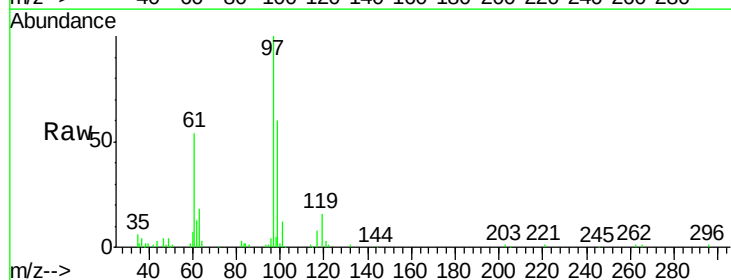
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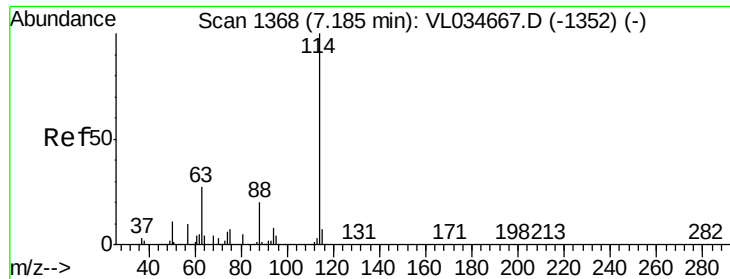
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#32
 1,1,1-Trichloroethane
 Concen: 0.421 ppbv
 RT: 6.52 min Scan# 1160
 Delta R.T. 0.00 min
 Lab File: VL034670.D
 Acq: 25 Feb 2020 13:13

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.0	52.2	78.2
61	56.7	44.5	66.7





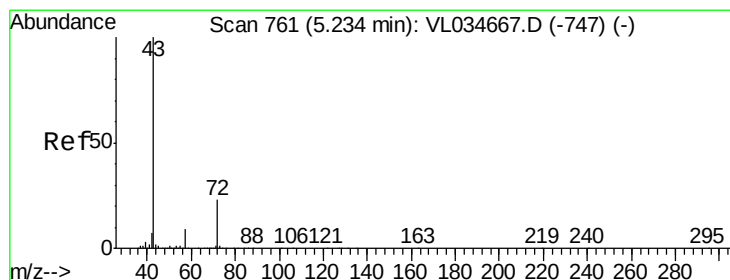
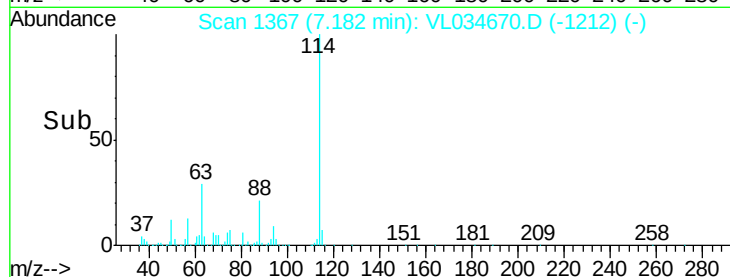
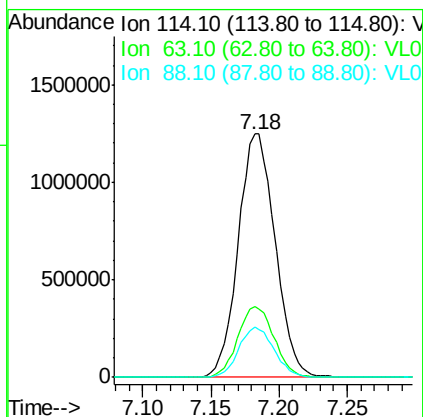
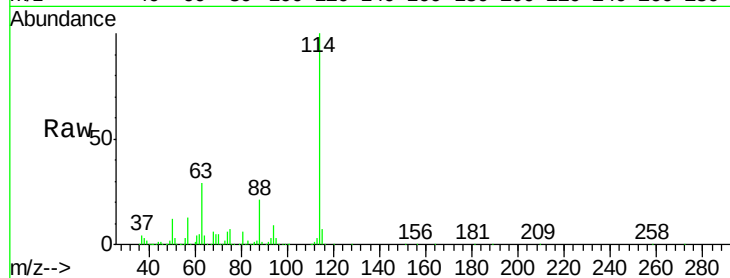
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.00 min
 Lab File: VL034670.D
 Acq: 25 Feb 2020 13:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.6	23.1	34.7
88	19.8	15.6	23.4

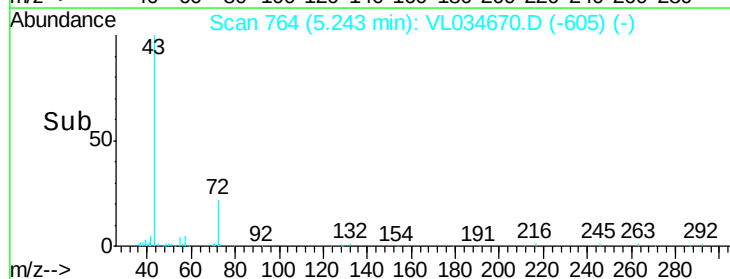
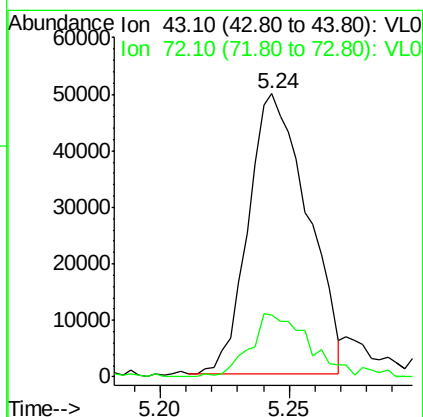
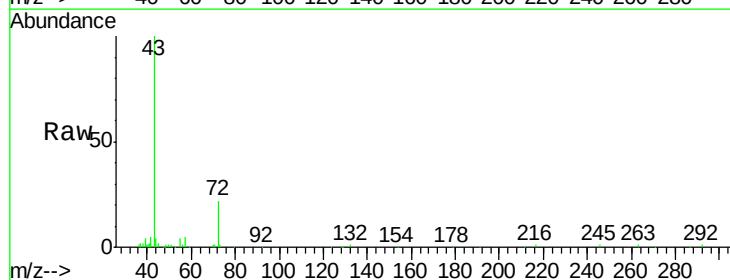
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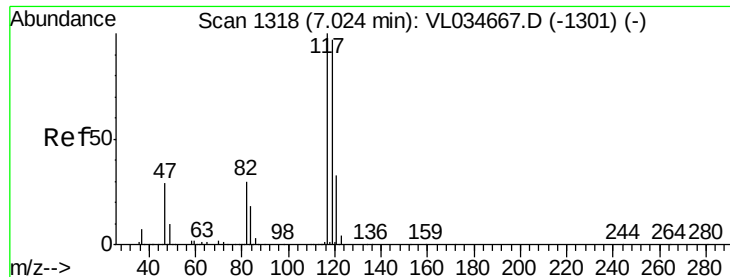
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#34
 2-Butanone
 Concen: 0.465 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. 0.01 min
 Lab File: VL034670.D
 Acq: 25 Feb 2020 13:13

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.6	17.8	26.8





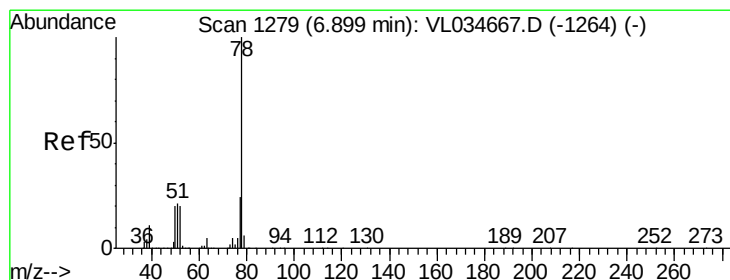
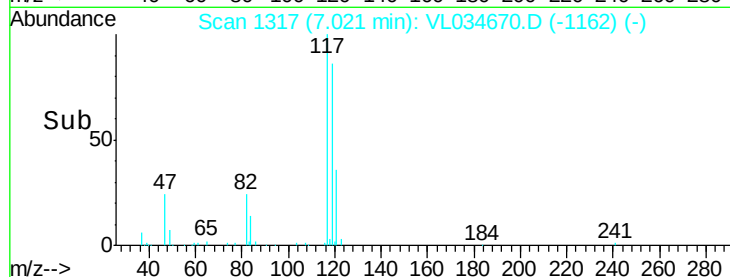
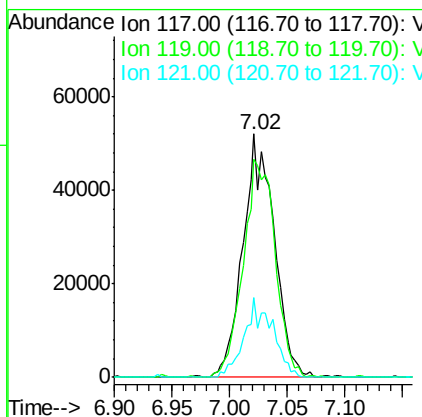
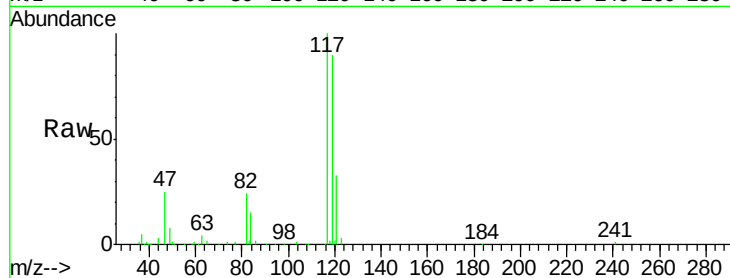
#35
Carbon Tetrachloride
Concen: 0.438 ppbv m
RT: 7.02 min Scan# 1317
Delta R.T. -0.00 min
Lab File: VL034670.D
Acq: 25 Feb 2020 13:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
117	100		
119	89.7	77.2	115.8
121	33.0	26.1	39.1

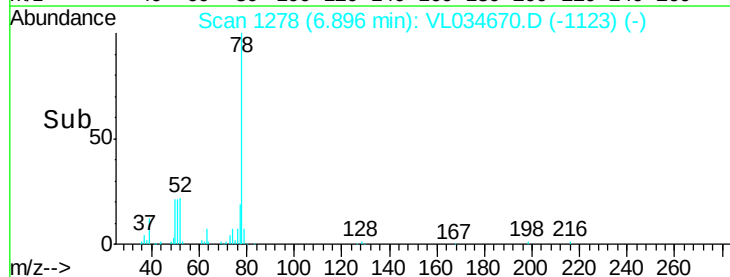
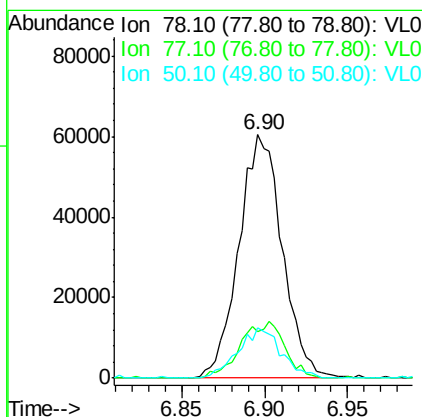
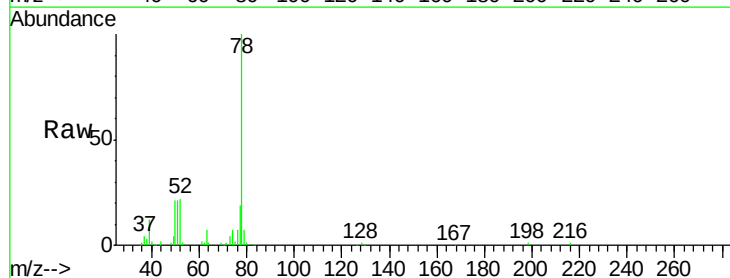
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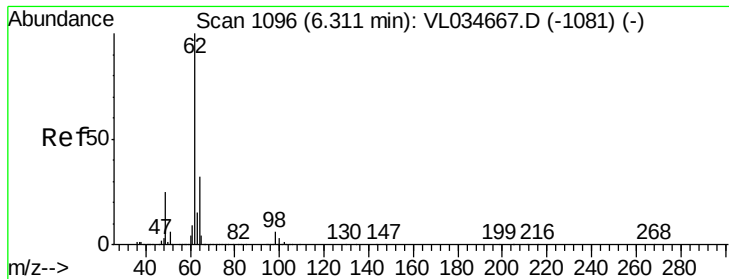
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#36
Benzene
Concen: 0.527 ppbv
RT: 6.90 min Scan# 1278
Delta R.T. -0.00 min
Lab File: VL034670.D
Acq: 25 Feb 2020 13:13

Tgt Ion	Ratio	Lower	Upper
78	100		
77	19.0	19.2	28.8#
50	20.5	15.9	23.9





#37

1,2-Dichloroethane

Concen: 0.437 ppbv

RT: 6.30 min Scan# 1094

Delta R.T. -0.01 min

Lab File: VL034670.D

Acq: 25 Feb 2020 13:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 76102

Ion Ratio Lower Upper

62 100

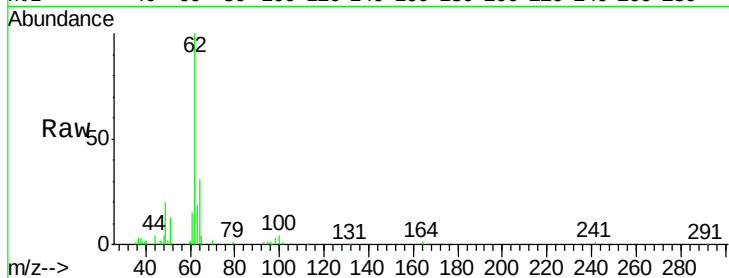
98 6.7 4.5 6.7

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

6.30

50000

40000

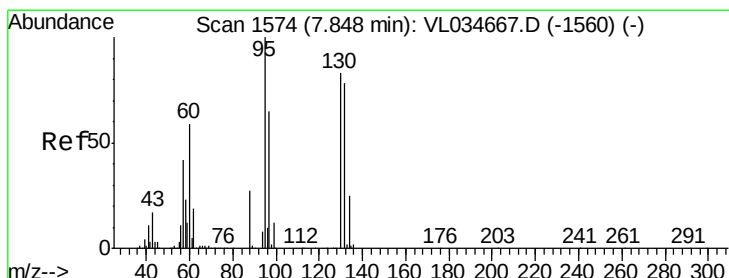
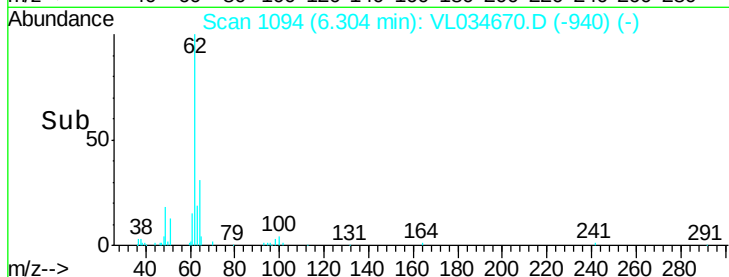
30000

20000

10000

0

Time-->



#38

Trichloroethene

Concen: 0.469 ppbv

RT: 7.85 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VL034670.D

Acq: 25 Feb 2020 13:13

Tgt Ion: 130 Resp: 41214

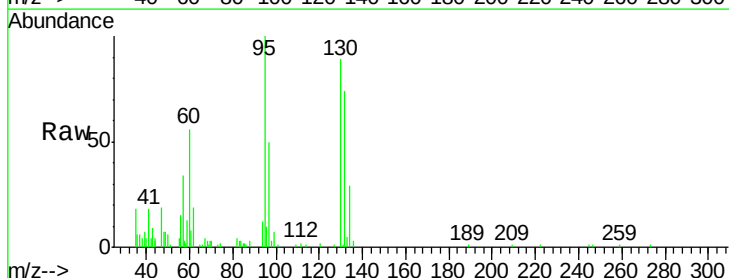
Ion Ratio Lower Upper

130 100

95 111.7 96.1 144.1

132 82.1 74.6 112.0

97 54.9 62.2 93.4#



Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0

7.85

40000

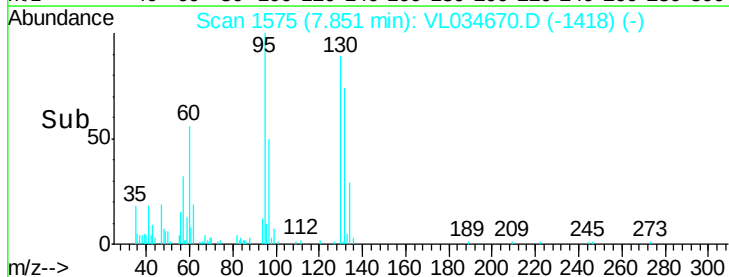
30000

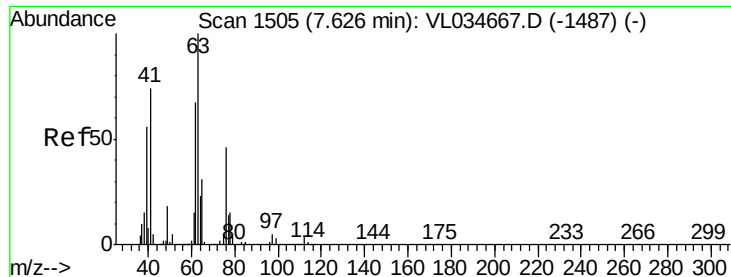
20000

10000

0

Time-->





#39

1,2-Dichloropropane

Concen: 0.543 ppbv m

RT: 7.63 min Scan# 1506

Delta R.T. 0.00 min

Lab File: VL034670.D

Acq: 25 Feb 2020 13:13

Instrument :

MSVOA_L

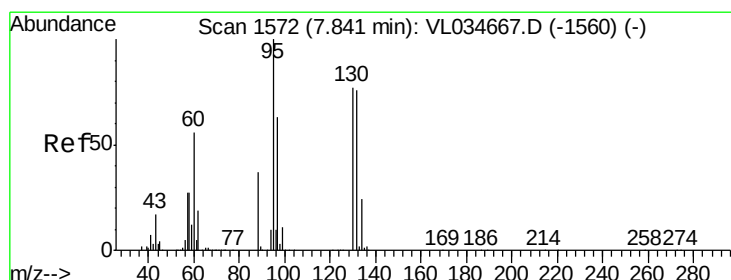
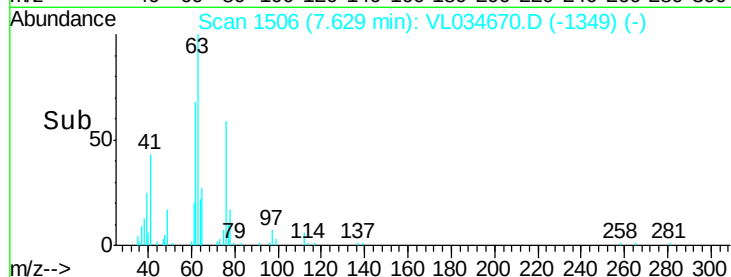
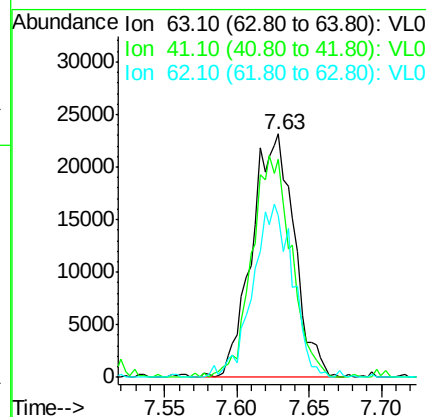
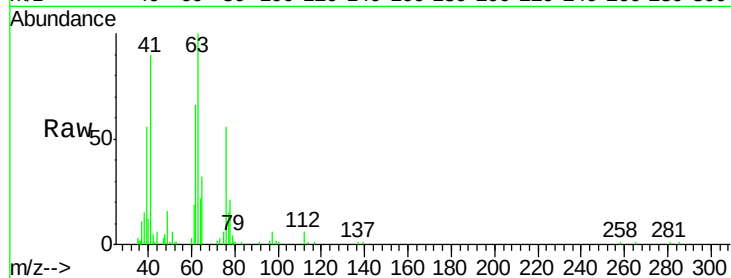
ClientSampleId :

VSTDIC0.5

Tot Ion:	63	Resp:	46997
Ion Ratio	Lower	Upper	
63	100		
41	89.8	58.9	88.3#
62	66.5	53.8	80.8

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#40

1,4-Dioxane

Concen: 0.542 ppbv m

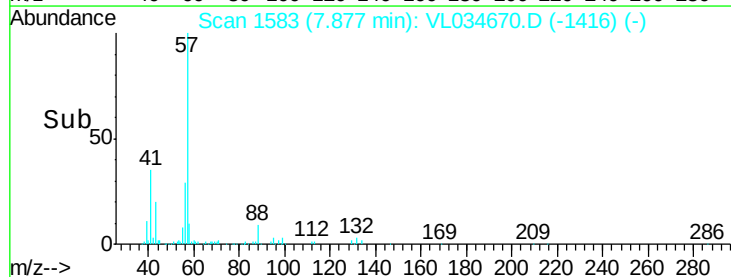
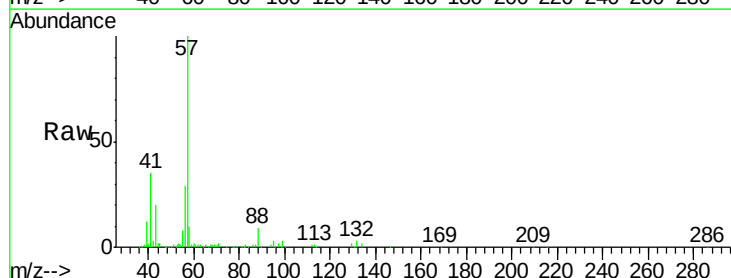
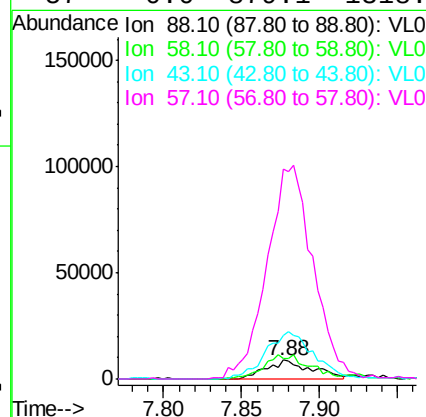
RT: 7.88 min Scan# 1583

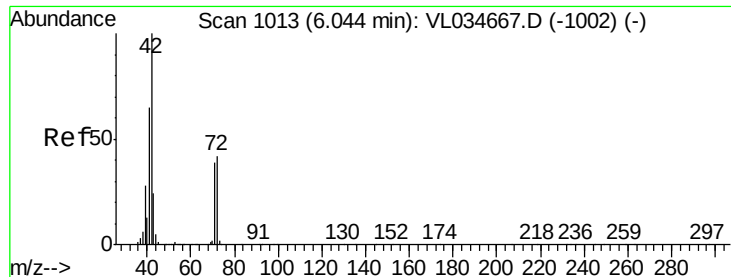
Delta R.T. 0.04 min

Lab File: VL034670.D

Acq: 25 Feb 2020 13:13

Tgt Ion:	88	Resp:	18013
Ion Ratio	Lower	Upper	
88	100		
58	0.0	108.6	163.0#
43	0.0	208.1	312.1#
57	0.0	879.1	1318.7#





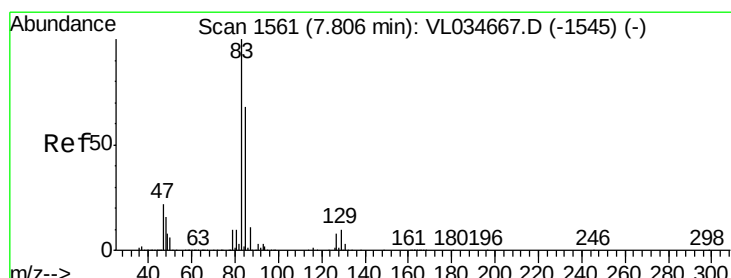
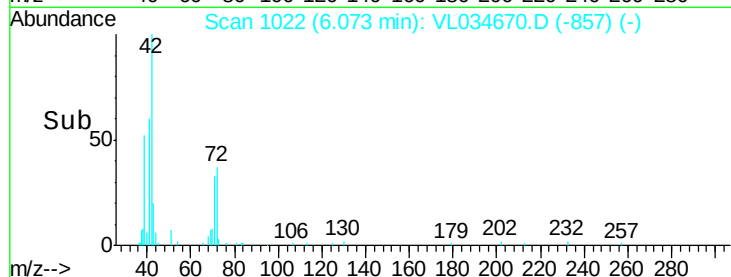
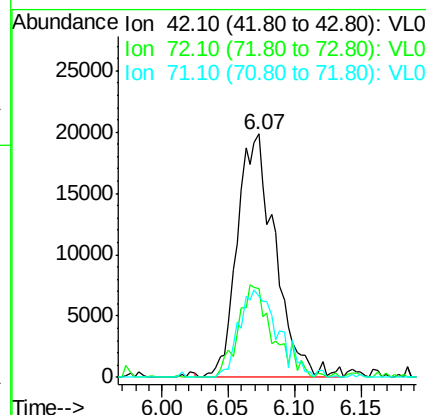
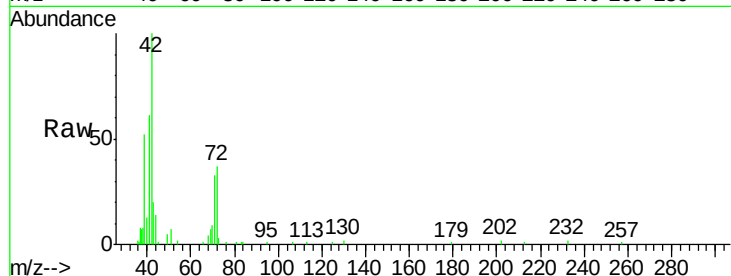
#41
Tetrahydrofuran
Concen: 0.442 ppbv m
RT: 6.07 min Scan# 1022
Delta R.T. 0.03 min
Lab File: VL034670.D
Acq: 25 Feb 2020 13:13

Instrument :
MSVOA_L
ClientSampled :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	31.5	47.3#
71	0.0	30.3	45.5#

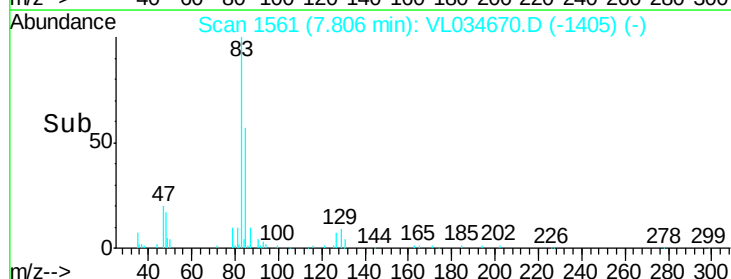
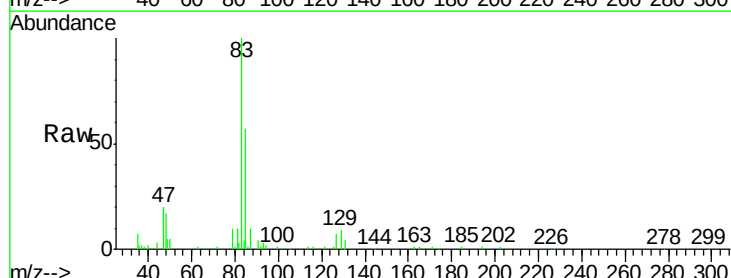
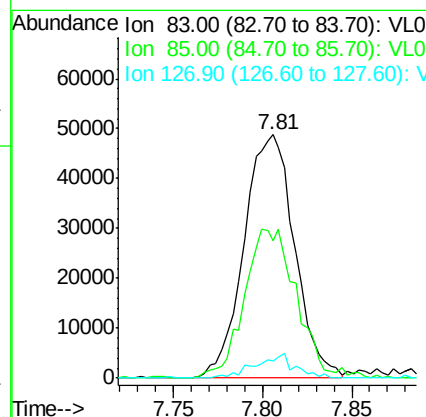
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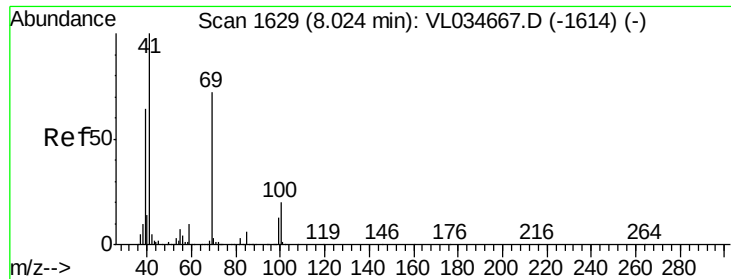
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#42
Bromodichloromethane
Concen: 0.451 ppbv
RT: 7.81 min Scan# 1561
Delta R.T. 0.00 min
Lab File: VL034670.D
Acq: 25 Feb 2020 13:13

Tgt Ion	Ratio	Lower	Upper
83	100		
85	56.7	54.2	81.4
127	6.8	6.2	9.4





#43

Methyl Methacrylate

Concen: 0.443 ppbv m

RT: 8.03 min Scan# 1632

Delta R.T. 0.01 min

Lab File: VL034670.D

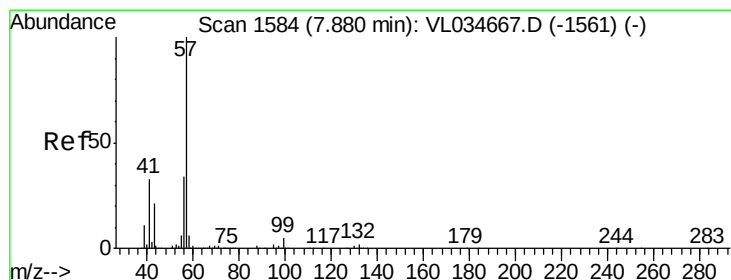
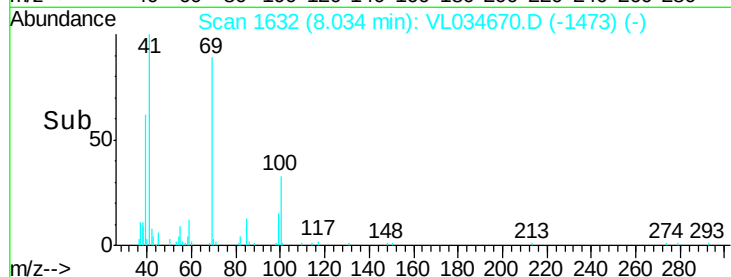
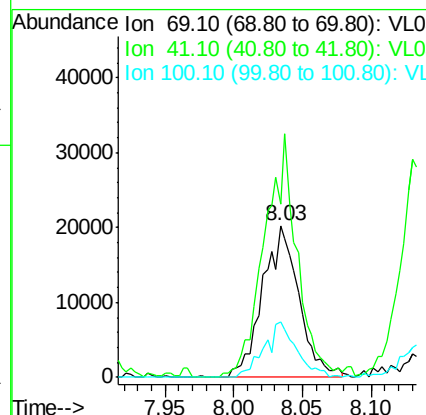
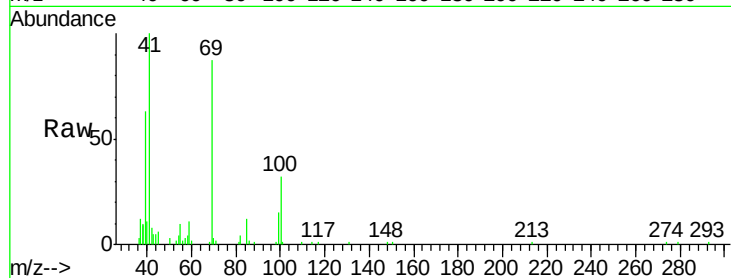
Acq: 25 Feb 2020 13:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
69	100		
41	0.0	116.4	174.6#
100	0.0	24.3	36.5#

Manual Integrations
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#44

2,2,4-Trimethylpentane

Concen: 0.533 ppbv

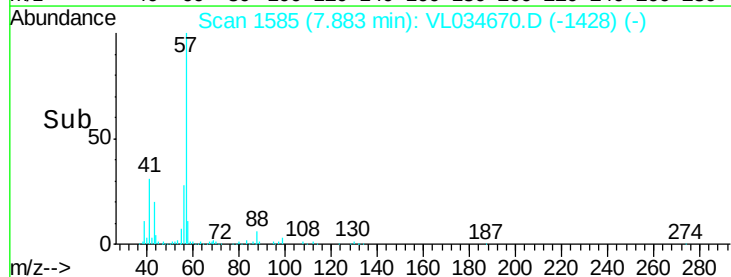
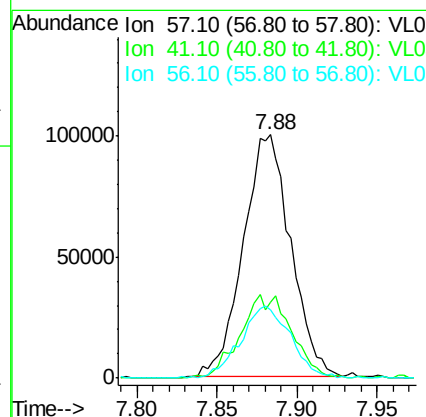
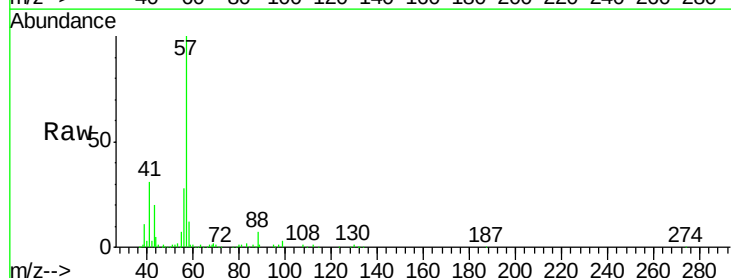
RT: 7.88 min Scan# 1585

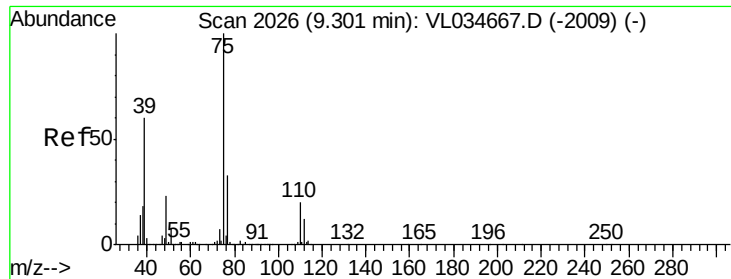
Delta R.T. 0.00 min

Lab File: VL034670.D

Acq: 25 Feb 2020 13:13

Tgt Ion	Ratio	Lower	Upper
57	100		
41	37.3	26.1	39.1
56	31.8	25.4	38.2





#45

t-1,3-Dichloropropene

Concen: 0.381 ppbv m

RT: 9.29 min Scan# 2024

Delta R.T. -0.01 min

Lab File: VL034670.D

Acq: 25 Feb 2020 13:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 75 Resp: 41885

Ion Ratio Lower Upper

75 100

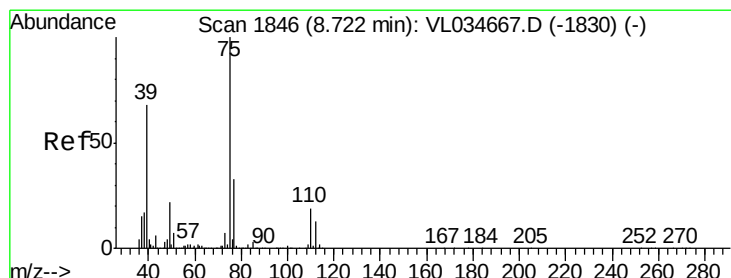
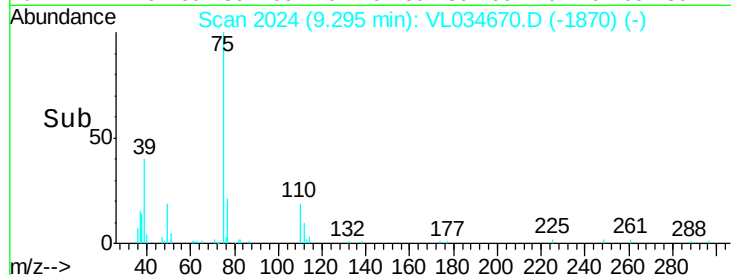
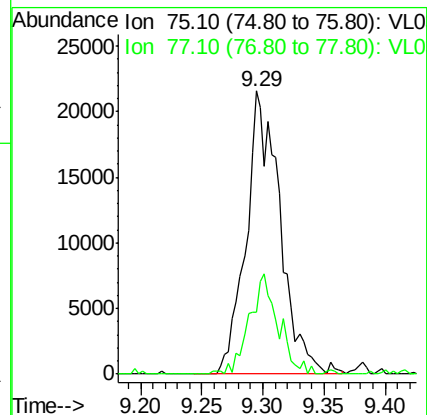
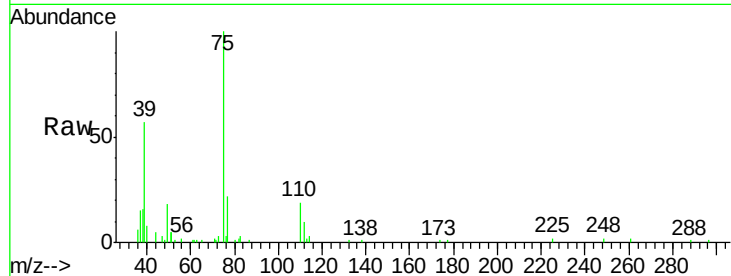
77 21.8 26.3 39.5#

Manual Integrations

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#46

cis-1,3-Dichloropropene

Concen: 0.393 ppbv m

RT: 8.73 min Scan# 1847

Delta R.T. 0.00 min

Lab File: VL034670.D

Acq: 25 Feb 2020 13:13

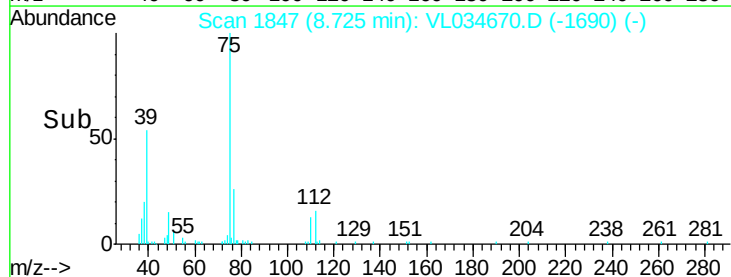
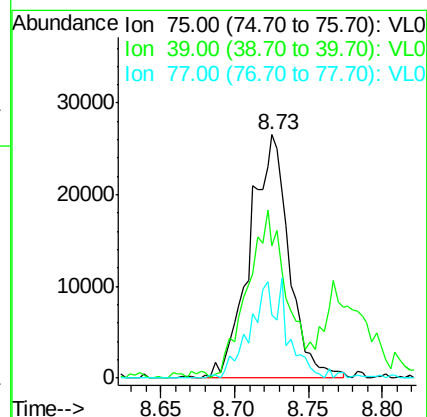
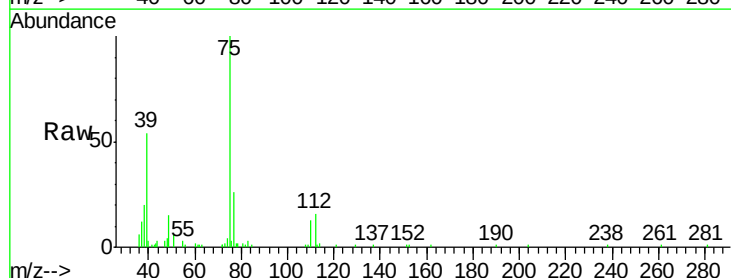
Tgt Ion: 75 Resp: 49107

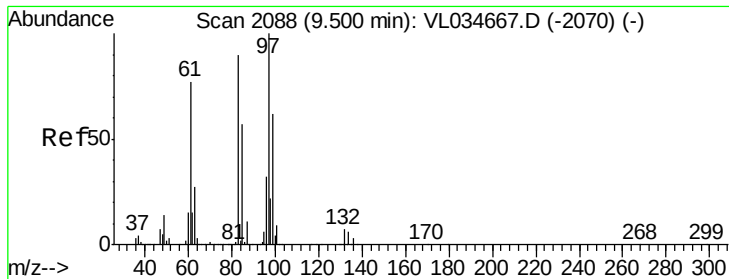
Ion Ratio Lower Upper

75 100

39 54.2 54.7 82.1#

77 26.0 26.6 40.0#





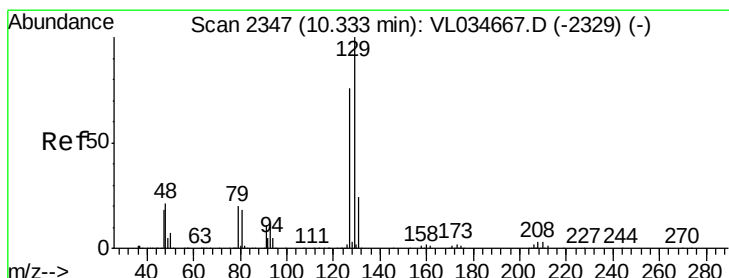
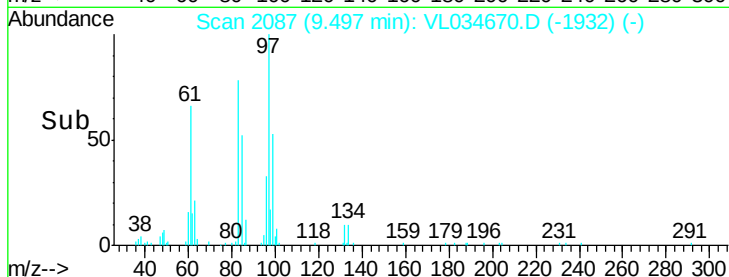
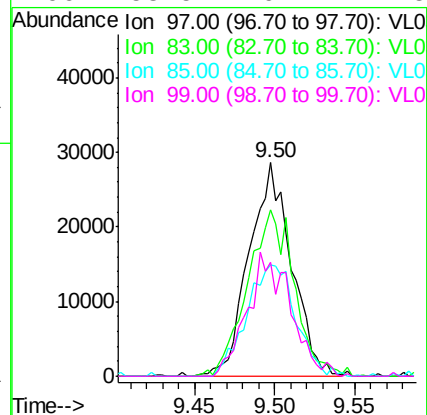
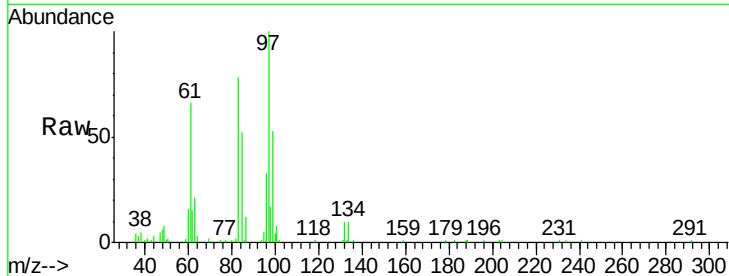
#47
 1,1,2-Trichloroethane
 Concen: 0.554 ppbv
 RT: 9.50 min Scan# 2087
 Delta R.T. -0.00 min
 Lab File: VL034670.D
 Acq: 25 Feb 2020 13:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion:	97	Resp:	51926
Ion	Ratio	Lower	Upper
97	100		
83	78.1	72.3	108.5
85	52.1	45.8	68.8
99	53.5	49.7	74.5

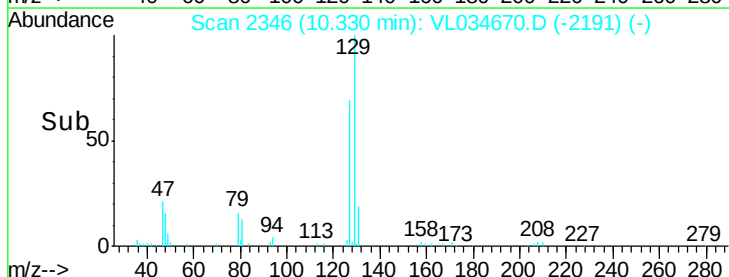
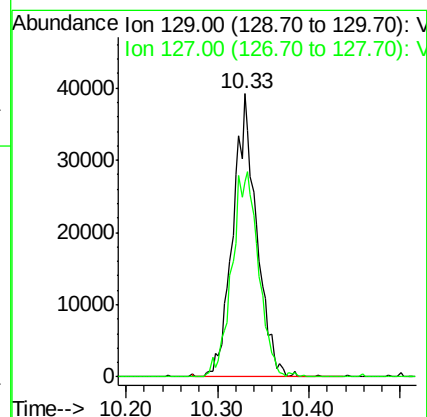
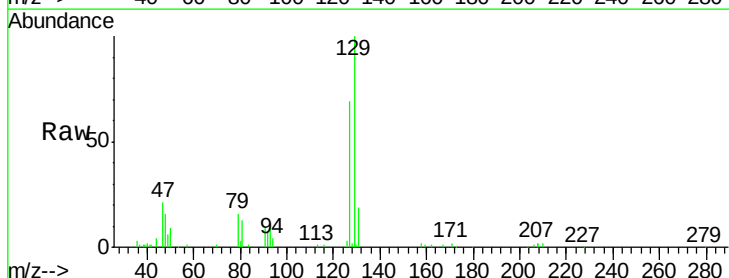
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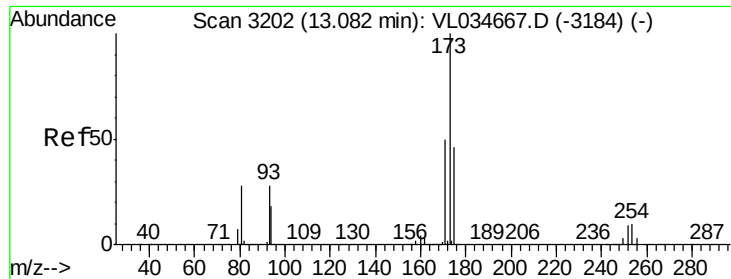
MMDadoda
 2/26/2020 12:38:47 PM



#48
 Dibromochloromethane
 Concen: 0.416 ppbv m
 RT: 10.33 min Scan# 2346
 Delta R.T. -0.00 min
 Lab File: VL034670.D
 Acq: 25 Feb 2020 13:13

Tgt Ion:	129	Resp:	71422
Ion	Ratio	Lower	Upper
129	100		
127	80.6	39.1	117.3





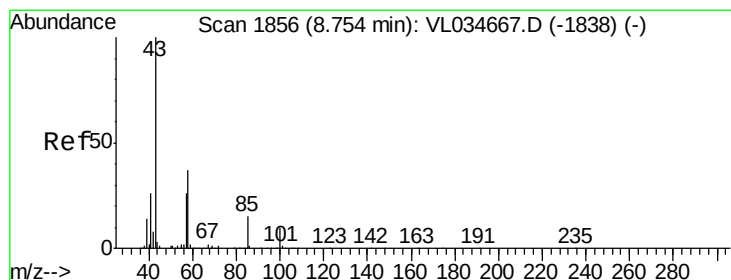
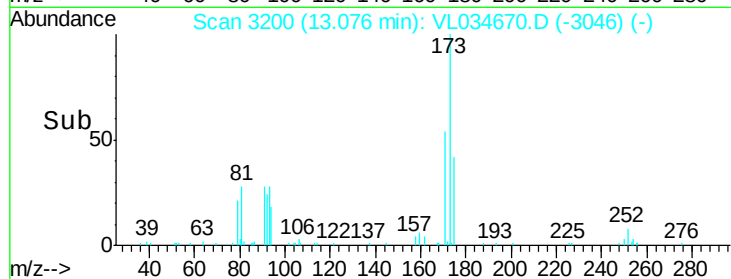
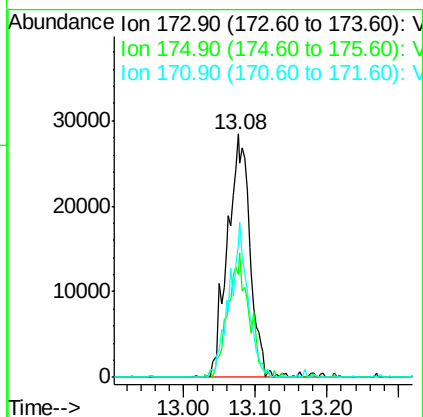
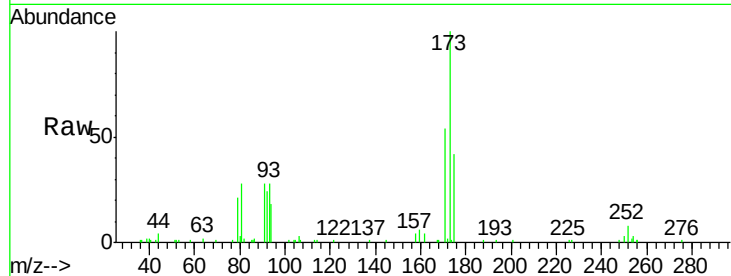
#49
Bromoform
Concen: 0.413 ppbv m
RT: 13.08 min Scan# 3200
Delta R.T. -0.01 min
Lab File: VL034670.D
Acq: 25 Feb 2020 13:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
173	100		
175	0.0	39.0	58.4#
171	0.0	41.0	61.6#

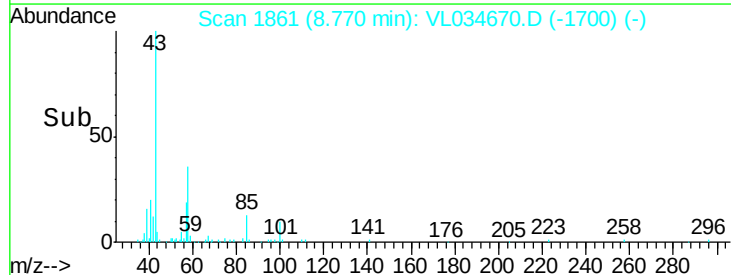
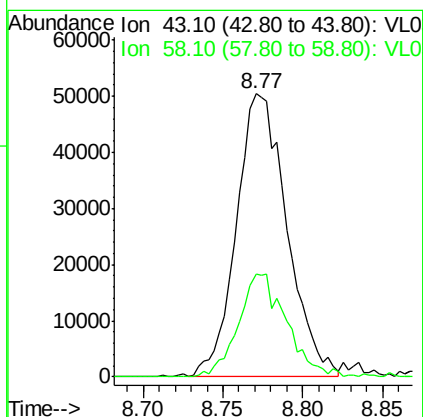
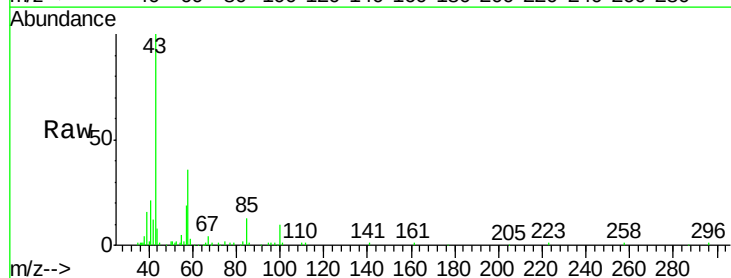
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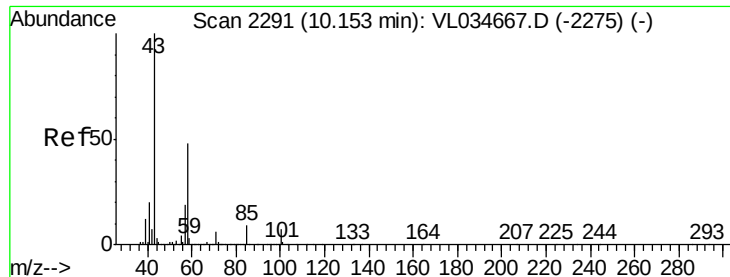
MMDadoda
2/26/2020 12:38:47 PM



#50
4-Methyl-2-Pentanone
Concen: 0.448 ppbv
RT: 8.77 min Scan# 1861
Delta R.T. 0.02 min
Lab File: VL034670.D
Acq: 25 Feb 2020 13:13

Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.8	29.5	44.3





#51

2-Hexanone

Concen: 0.407 ppbv m

RT: 10.18 min Scan# 2300

Delta R.T. 0.03 min

Lab File: VL034670.D

Acq: 25 Feb 2020 13:13

Instrument :

MSVOA_L

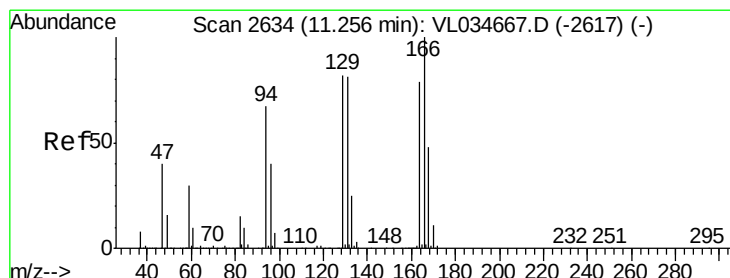
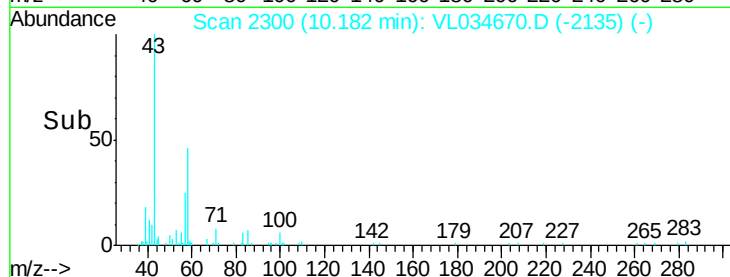
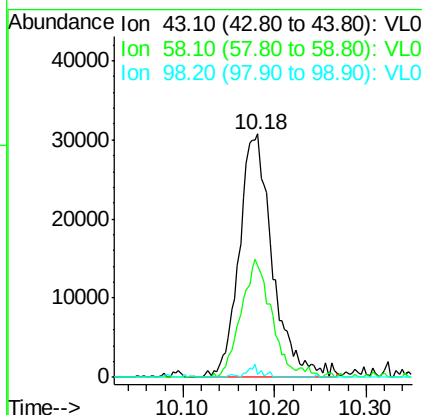
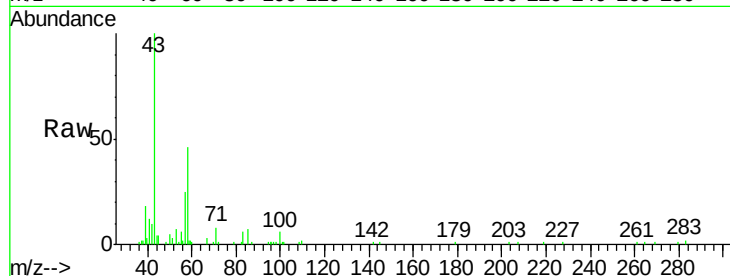
ClientSampleId :

VSTDIC0.5

Tot Ion:	43	Resp:	77862
Ion Ratio	Lower	Upper	
43	100		
58	45.7	38.8	58.2
98	2.1	0.3	0.5#

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#52

Tetrachloroethene

Concen: 0.463 ppbv m

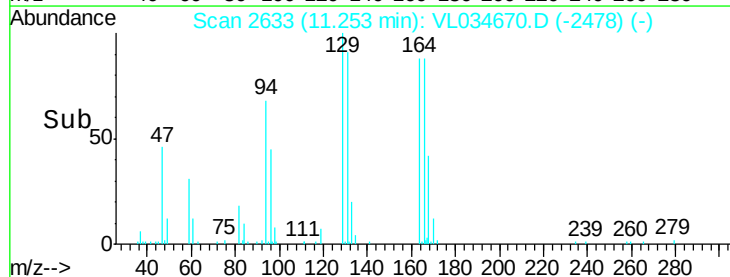
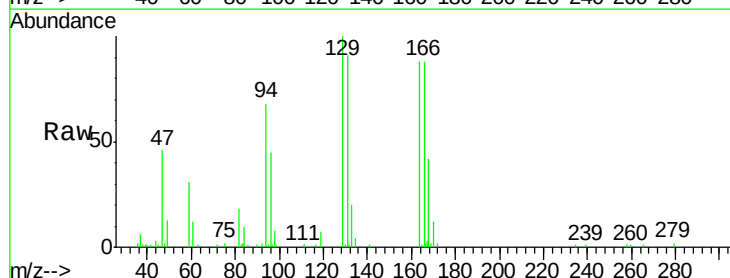
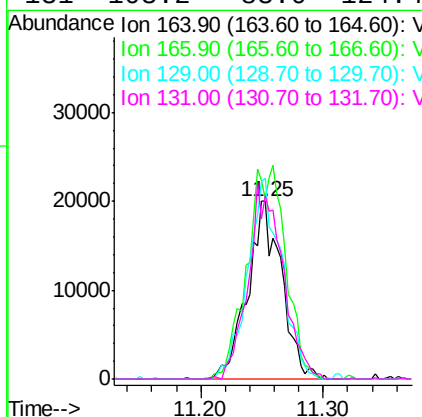
RT: 11.25 min Scan# 2633

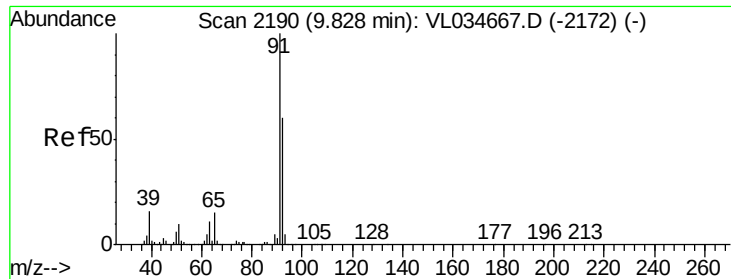
Delta R.T. -0.00 min

Lab File: VL034670.D

Acq: 25 Feb 2020 13:13

Tgt Ion:	164	Resp:	38828
Ion Ratio	Lower	Upper	
164	100		
166	99.2	101.4	152.2#
129	113.1	83.5	125.3
131	103.2	83.0	124.4





#53

Toluene

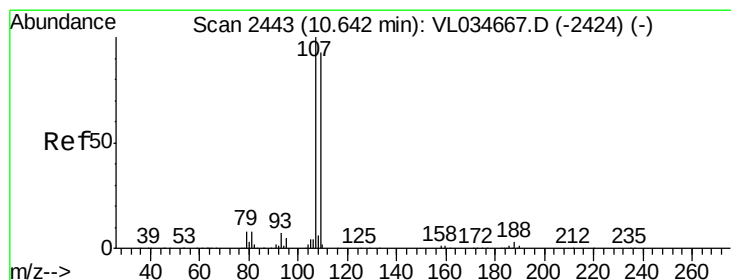
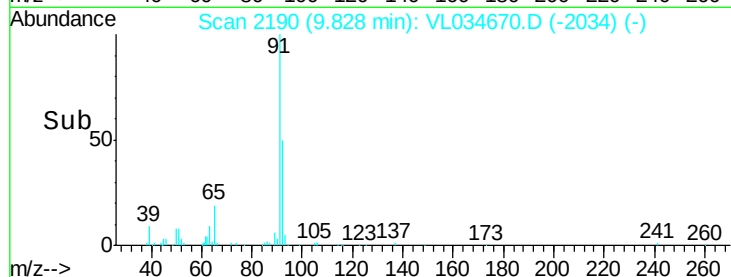
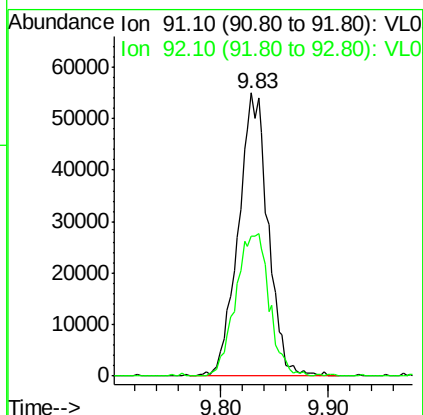
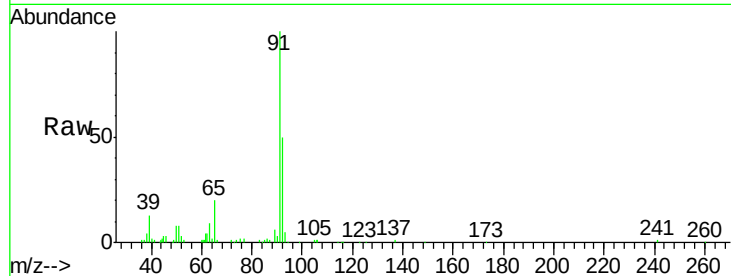
Concen: 0.463 ppbv m
RT: 9.83 min Scan# 2190
Delta R.T. 0.00 min
Lab File: VL034670.D
Acq: 25 Feb 2020 13:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 91 Resp: 106026
Ion Ratio Lower Upper
91 100
92 0.0 48.2 72.2#

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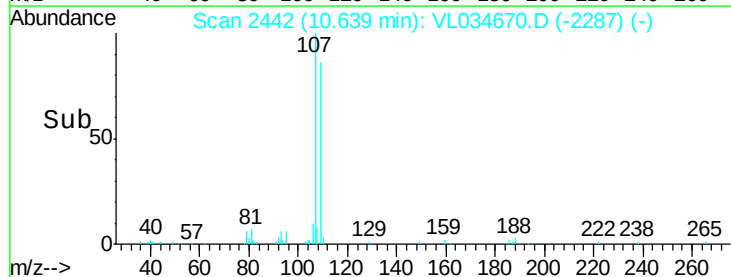
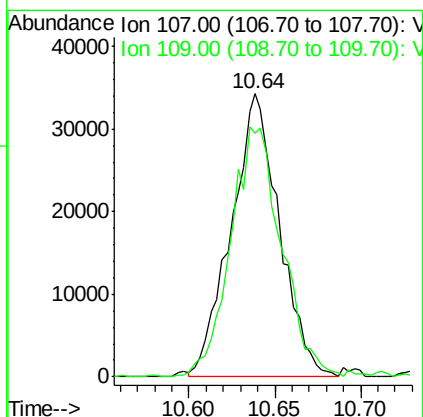
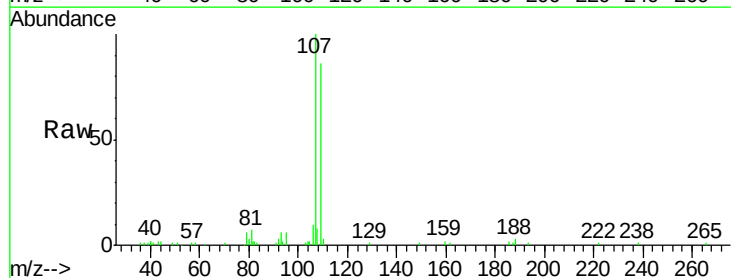


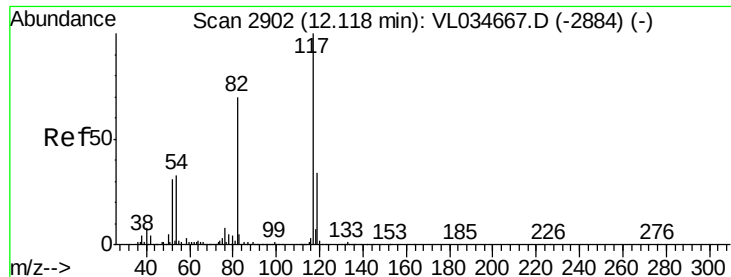
#54

1,2-Dibromoethane

Concen: 0.476 ppbv
RT: 10.64 min Scan# 2442
Delta R.T. -0.00 min
Lab File: VL034670.D
Acq: 25 Feb 2020 13:13

Tgt Ion: 107 Resp: 66814
Ion Ratio Lower Upper
107 100
109 84.8 74.2 111.4





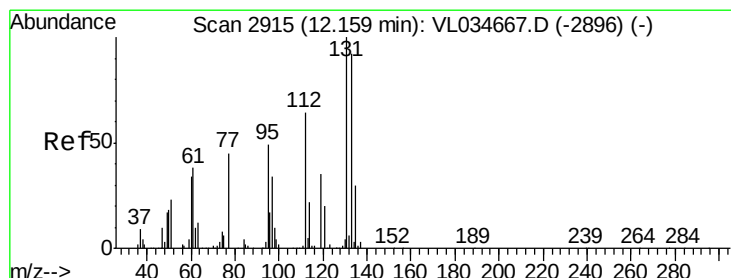
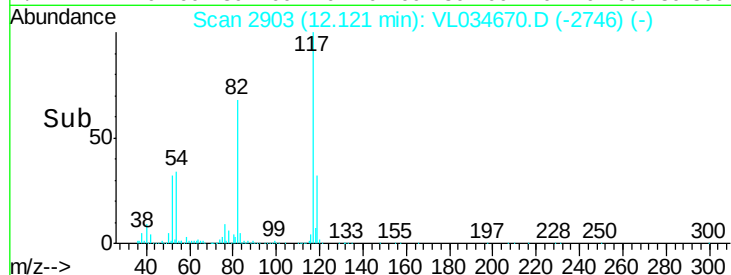
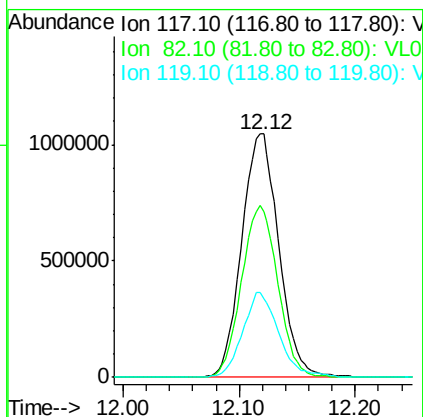
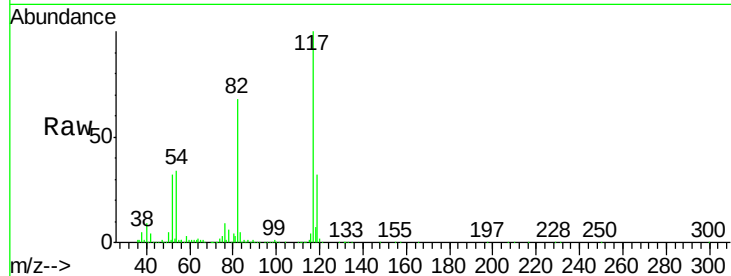
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2903
Delta R.T. 0.00 min
Lab File: VL034670.D
Acq: 25 Feb 2020 13:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
117	100		
82	69.3	54.2	81.4
119	34.1	44.2	66.2#

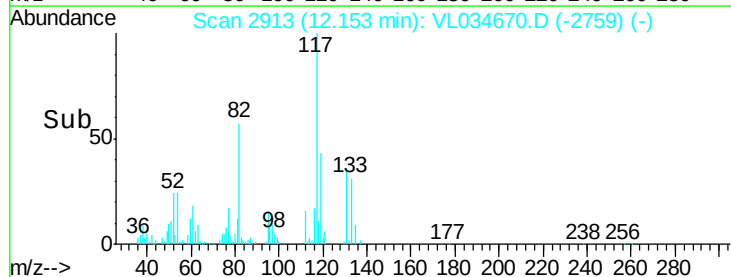
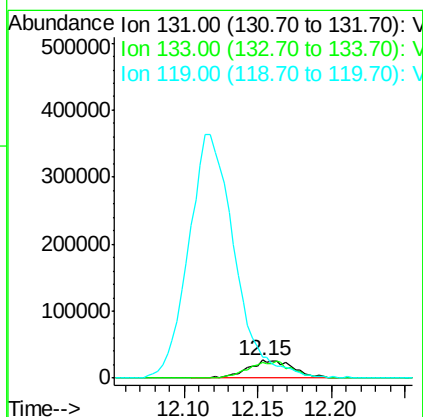
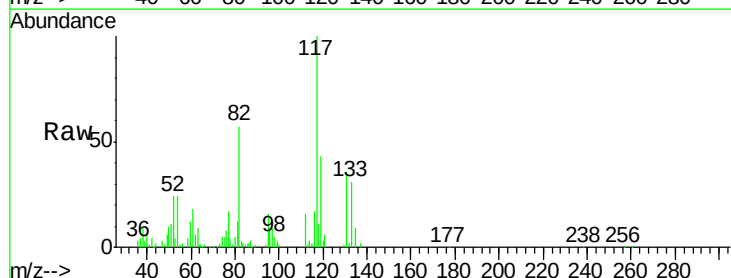
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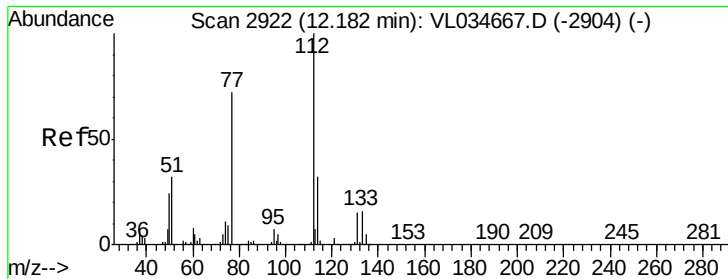
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#56
1,1,1,2-Tetrachloroethane
Concen: 0.490 ppbv m
RT: 12.15 min Scan# 2913
Delta R.T. -0.01 min
Lab File: VL034670.D
Acq: 25 Feb 2020 13:13

Tgt Ion	Ratio	Lower	Upper
131	100		
133	92.4	77.0	115.4
119	0.0	114.8	172.2#





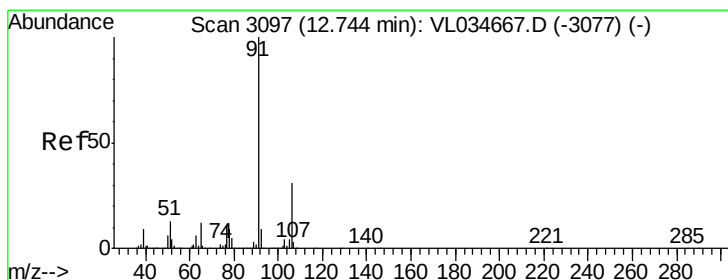
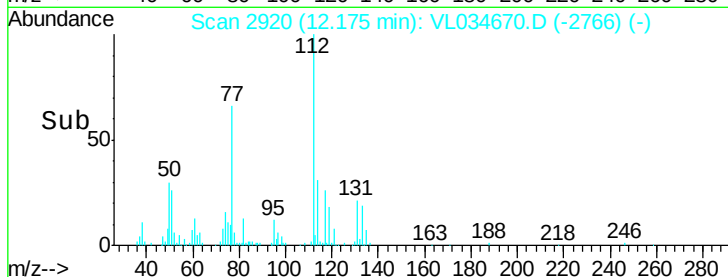
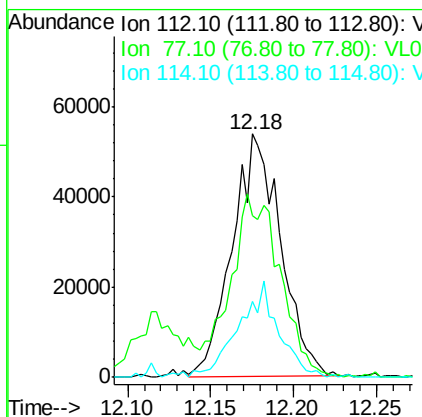
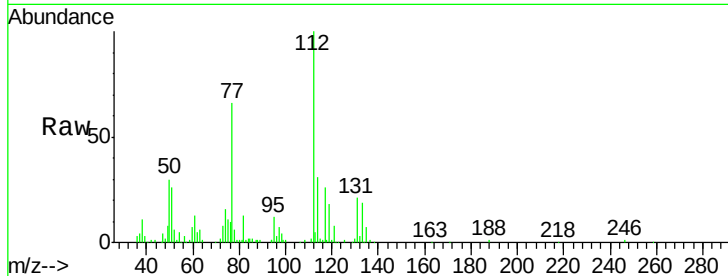
#57
Chlorobenzene
Concen: 0.570 ppbv
RT: 12.18 min Scan# 2920
Delta R.T. -0.01 min
Lab File: VL034670.D
Acq: 25 Feb 2020 13:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
112	100		
77	65.6	58.9	88.3
114	31.2	29.1	35.5

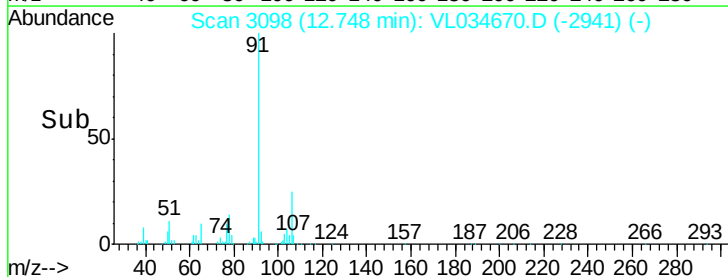
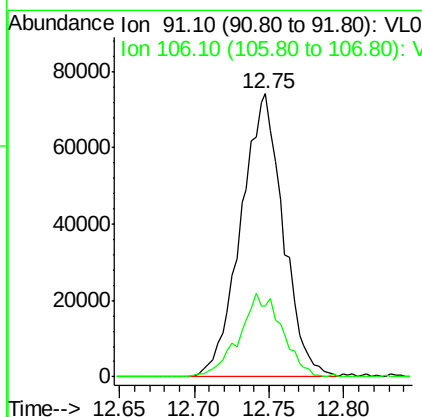
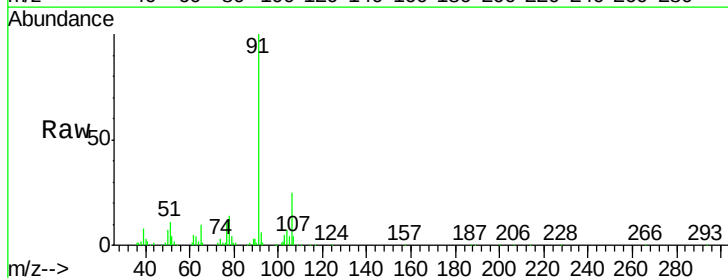
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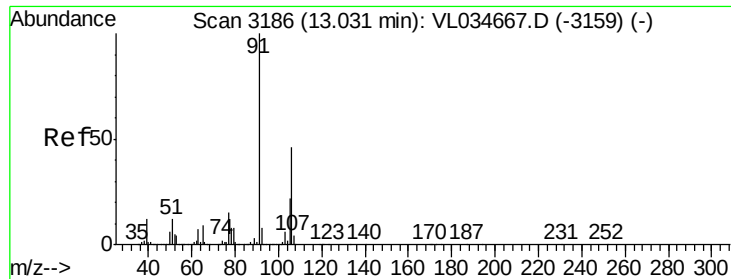
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#58
Ethyl Benzene
Concen: 0.468 ppbv
RT: 12.75 min Scan# 3098
Delta R.T. 0.00 min
Lab File: VL034670.D
Acq: 25 Feb 2020 13:13

Tgt Ion	Ratio	Lower	Upper
91	100		
106	25.1	24.6	36.8





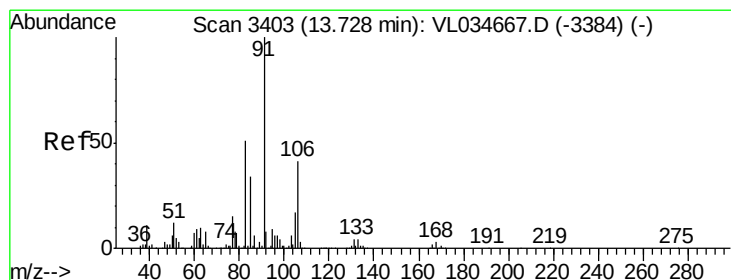
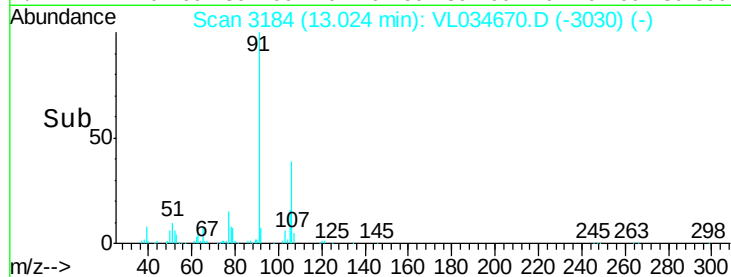
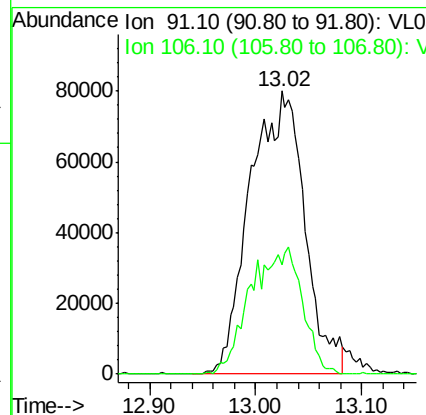
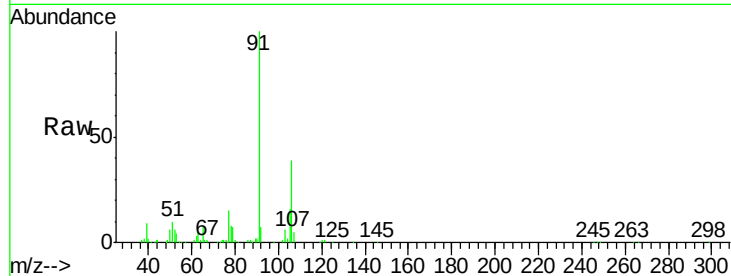
#59
m/p-Xylene
Concen: 1.041 ppbv m
RT: 13.02 min Scan# 3184
Delta R.T. -0.01 min
Lab File: VL034670.D
Acq: 25 Feb 2020 13:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 91 Resp: 286630
Ion Ratio Lower Upper
91 100
106 42.2 35.9 53.9

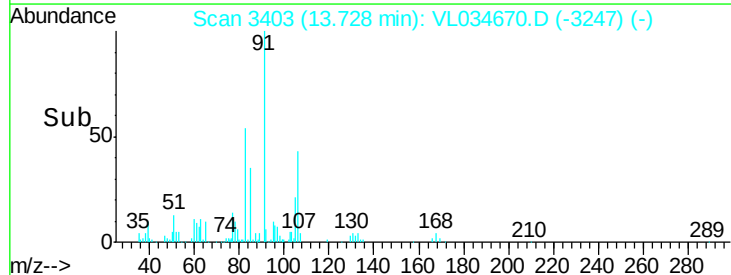
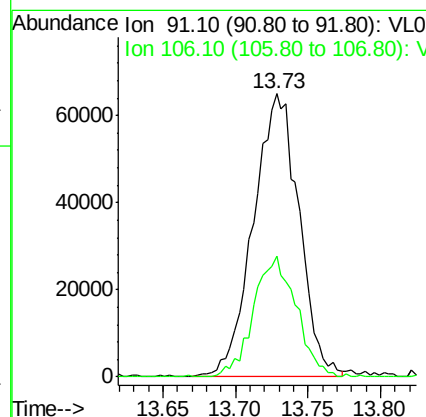
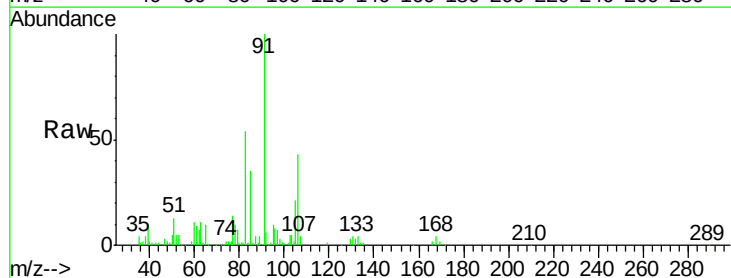
Manual Integrations
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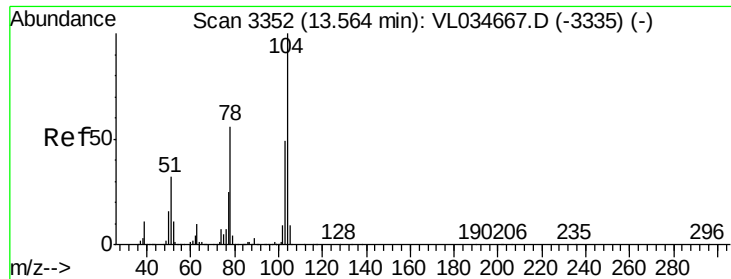
MMDadoda
2/26/2020 12:38:47 PM



#60
o-Xylene
Concen: 0.515 ppbv
RT: 13.73 min Scan# 3403
Delta R.T. 0.00 min
Lab File: VL034670.D
Acq: 25 Feb 2020 13:13

Tgt Ion: 91 Resp: 142255
Ion Ratio Lower Upper
91 100
106 39.9 22.1 66.1





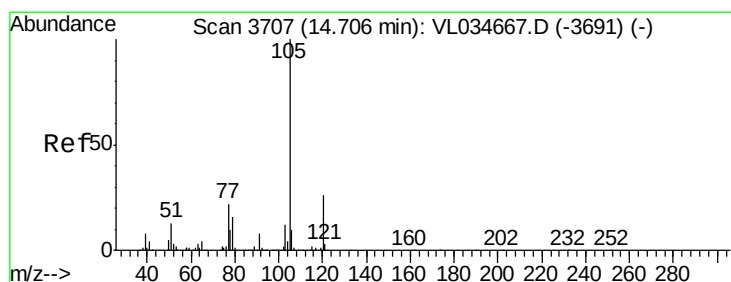
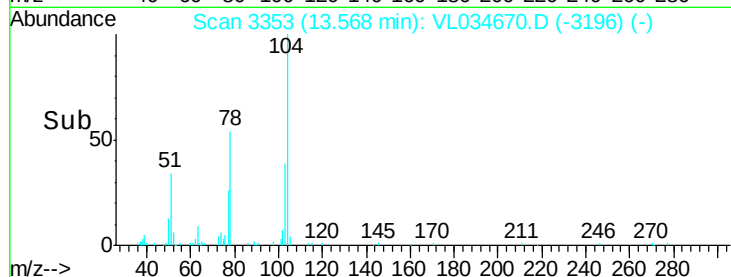
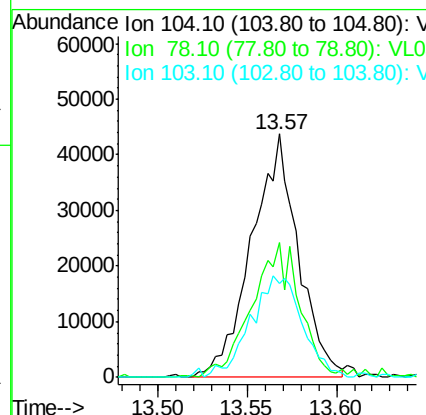
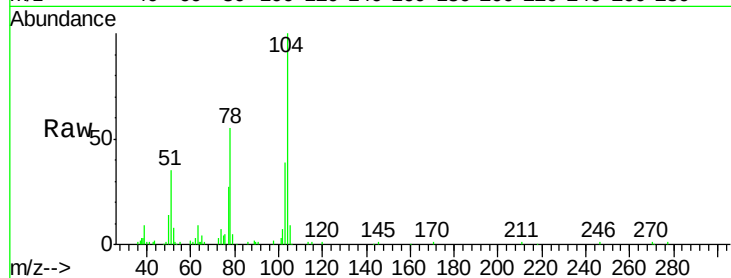
#61
Stvrene
Concen: 0.432 ppbv
RT: 13.57 min Scan# 3353
Delta R.T. 0.00 min
Lab File: VL034670.D
Acq: 25 Feb 2020 13:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
104	100		
78	58.9	44.9	67.3
103	47.1	38.5	57.7

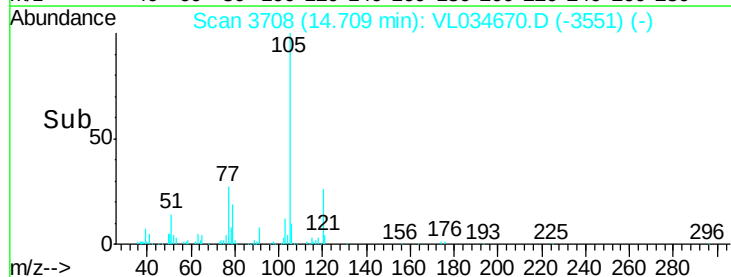
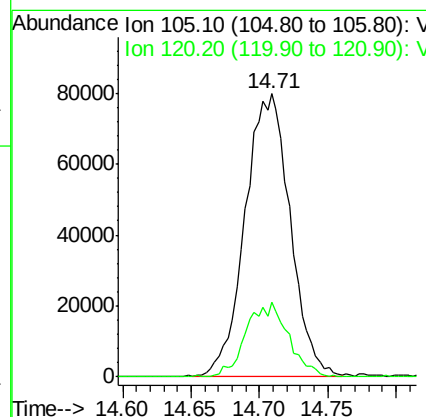
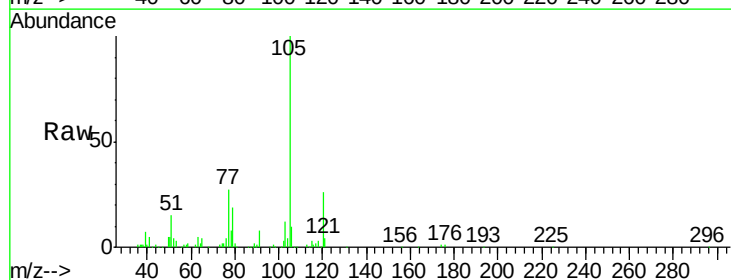
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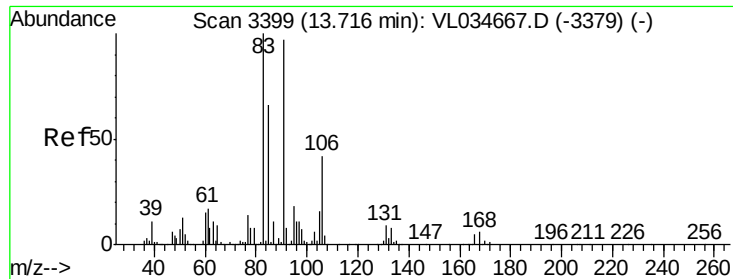
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#62
Isopropylbenzene
Concen: 0.509 ppbv
RT: 14.71 min Scan# 3708
Delta R.T. 0.00 min
Lab File: VL034670.D
Acq: 25 Feb 2020 13:13

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.8	20.7	31.1





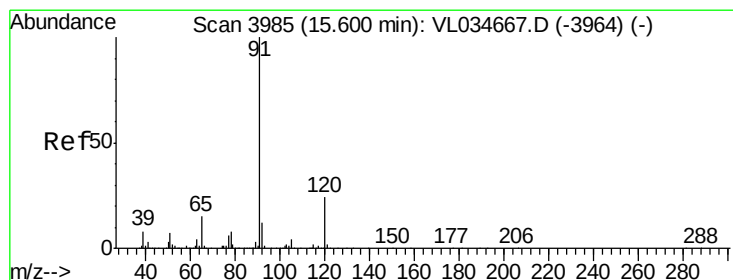
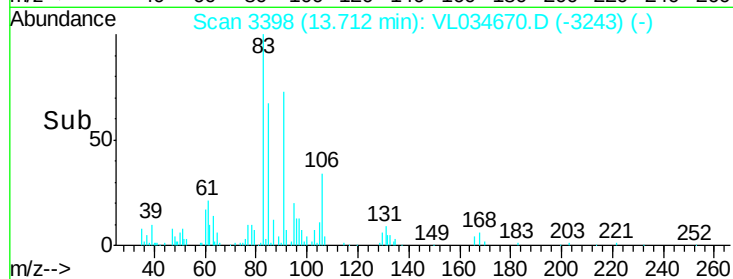
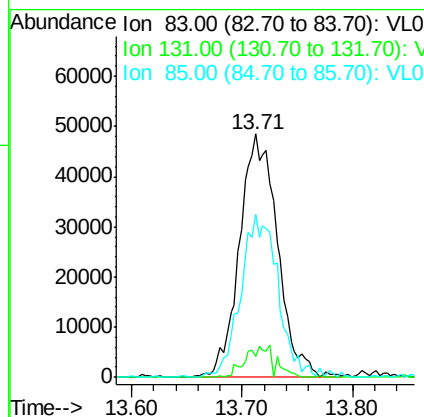
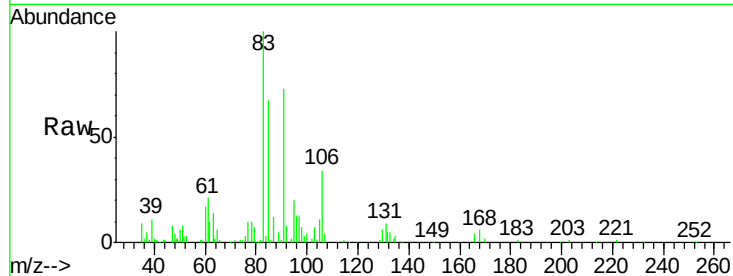
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.542 ppbv m
 RT: 13.71 min Scan# 3398
 Delta R.T. -0.00 min
 Lab File: VL034670.D
 Acq: 25 Feb 2020 13:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	83	Resp	115962
Ion Ratio	100	Lower	Upper
83	100		
131	10.1	4.5	13.4
85	0.0	32.6	98.0#

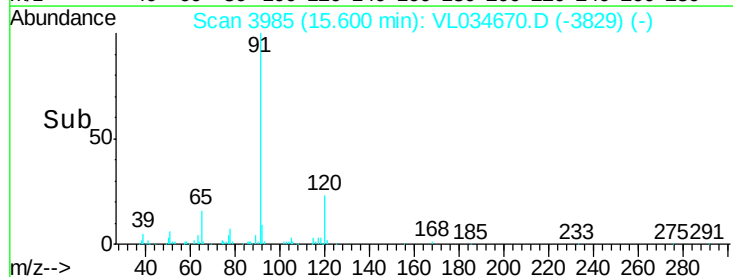
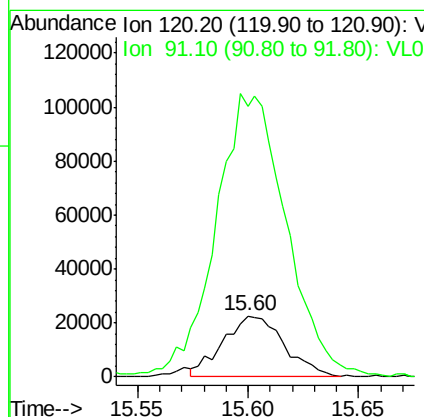
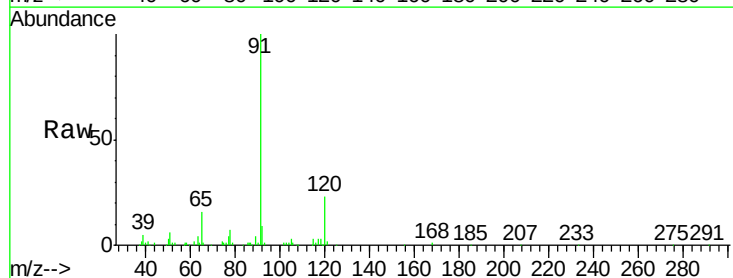
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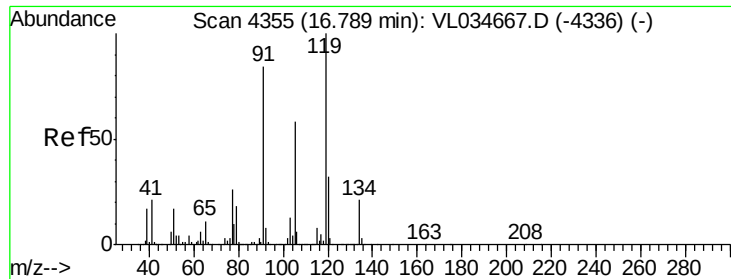
MMDadoda
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#64
 n-propylbenzene
 Concen: 0.472 ppbv
 RT: 15.60 min Scan# 3985
 Delta R.T. 0.00 min
 Lab File: VL034670.D
 Acq: 25 Feb 2020 13:13

Tgt Ion	120	Resp	43529
Ion Ratio	100	Lower	Upper
120	100		
91	532.4	375.9	563.9





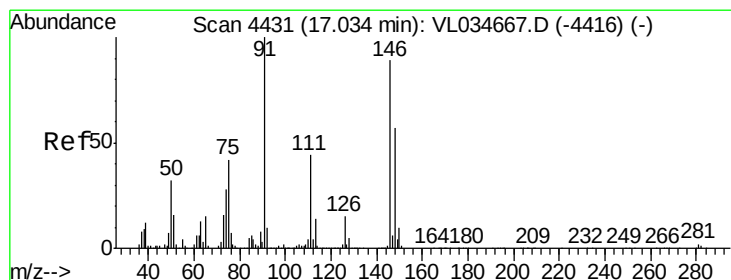
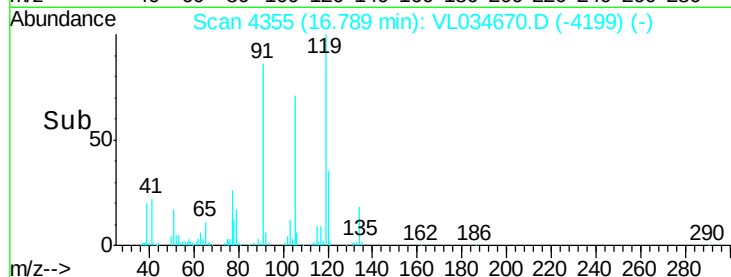
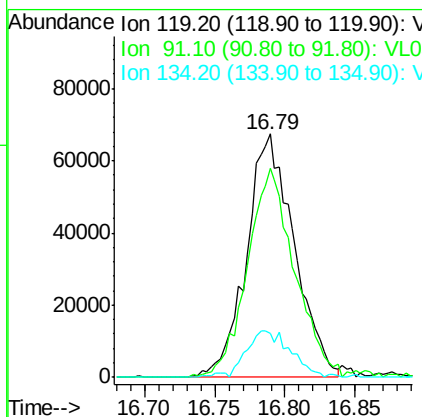
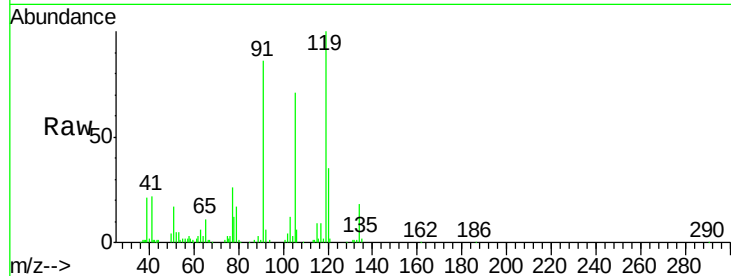
#65
tert-Butylbenzene
Concen: 0.489 ppbv
RT: 16.79 min Scan# 4355
Delta R.T. 0.00 min
Lab File: VL034670.D
Acq: 25 Feb 2020 13:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
119	100	158882		
91	87.5	68.9	103.3	
134	18.3	15.6	23.4	

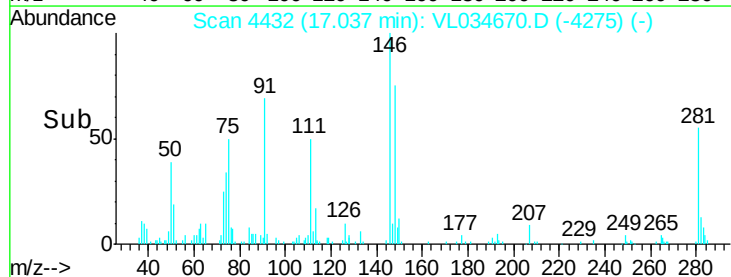
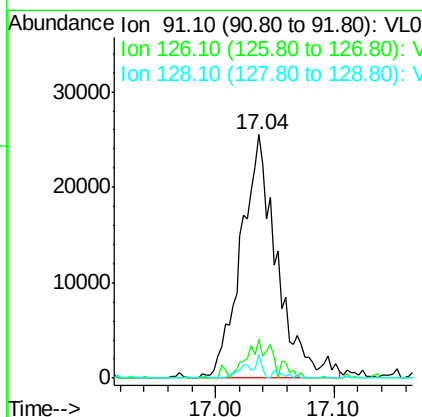
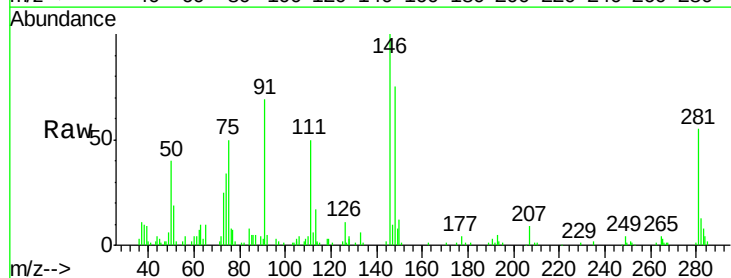
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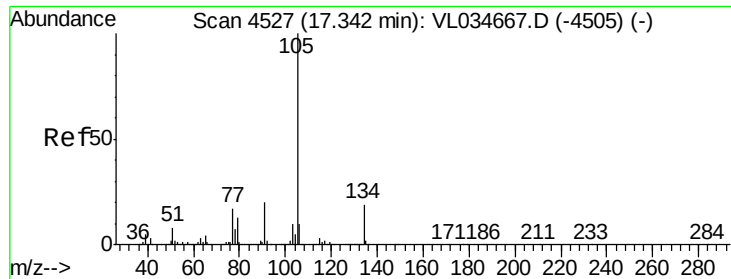
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#66
Benzyl Chloride
Concen: 0.398 ppbv m
RT: 17.04 min Scan# 4432
Delta R.T. 0.00 min
Lab File: VL034670.D
Acq: 25 Feb 2020 13:13

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	54105		
126	12.8	13.3	19.9	#
128	4.8	4.2	6.2	





#67

sec-Butylbenzene

Concen: 0.494 ppbv m

RT: 17.34 min Scan# 4527

Delta R.T. 0.00 min

Lab File: VL034670.D

Acq: 25 Feb 2020 13:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 105 Resp: 220416

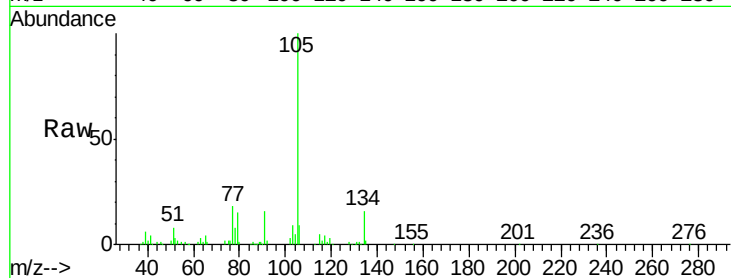
Ion Ratio Lower Upper

105 100

134 18.0 14.6 21.8

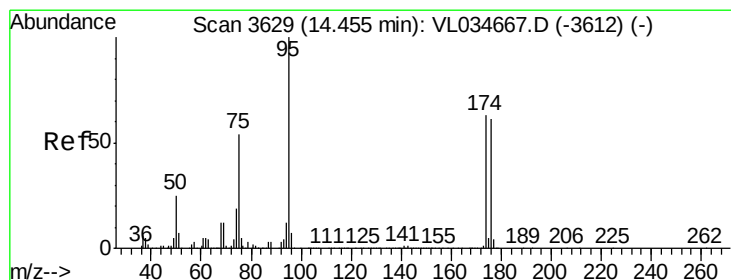
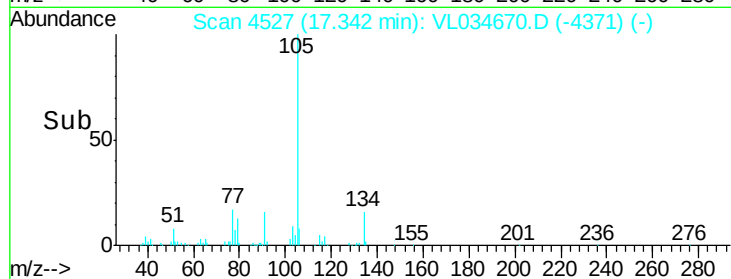
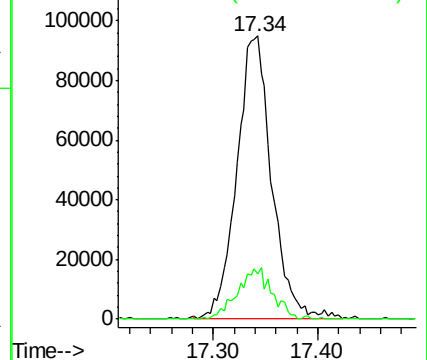
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 9.891 ppbv

RT: 14.46 min Scan# 3629

Delta R.T. 0.00 min

Lab File: VL034670.D

Acq: 25 Feb 2020 13:13

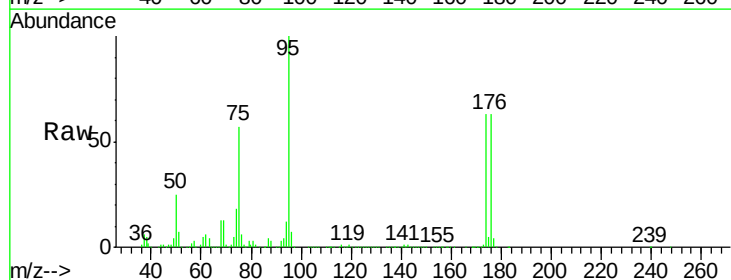
Tgt Ion: 95 Resp: 1945474

Ion Ratio Lower Upper

95 100

174 64.0 51.2 76.8

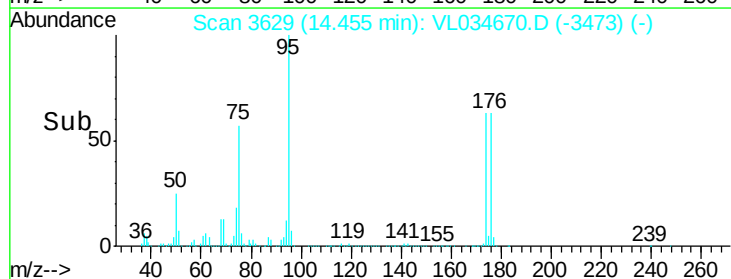
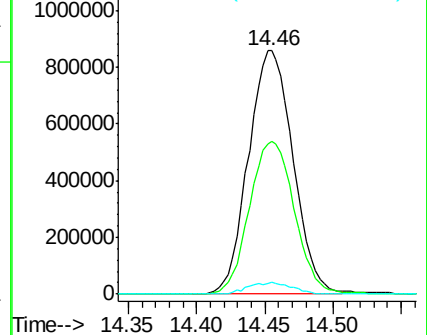
175 4.7 3.8 5.6

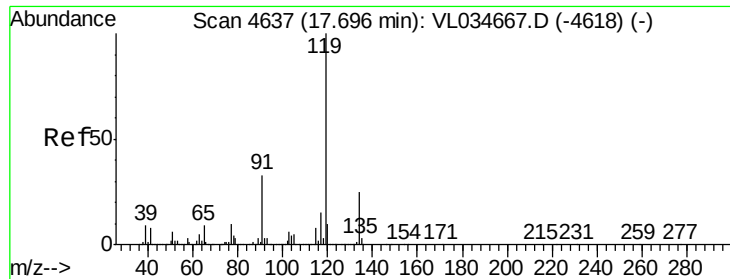


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





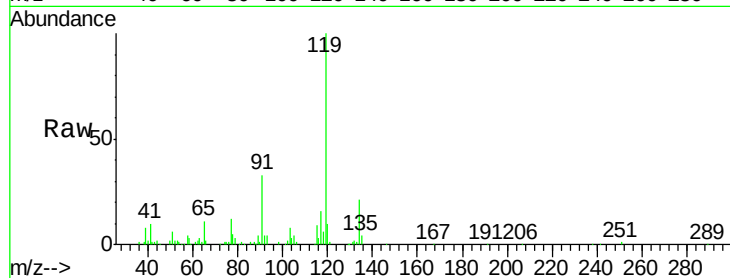
#69
 p-Isopropyltoluene
 Concen: 0.458 ppbv
 RT: 17.69 min Scan# 4636
 Delta R.T. -0.00 min
 Lab File: VL034670.D
 Acq: 25 Feb 2020 13:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

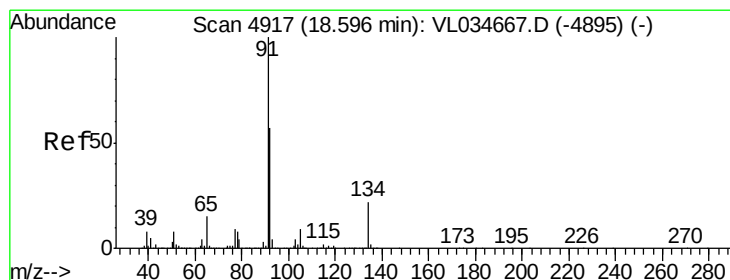
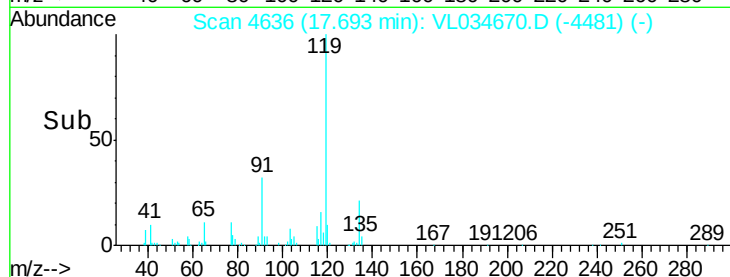
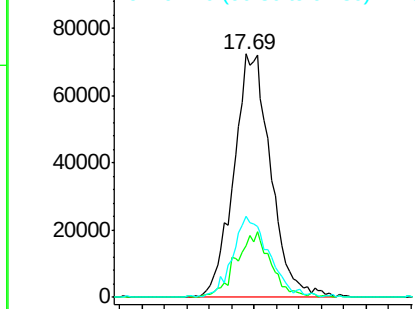
Tot Ion	Ratio	Lower	Upper
119	100		
134	25.8	20.6	31.0
91	0.0	25.3	37.9#

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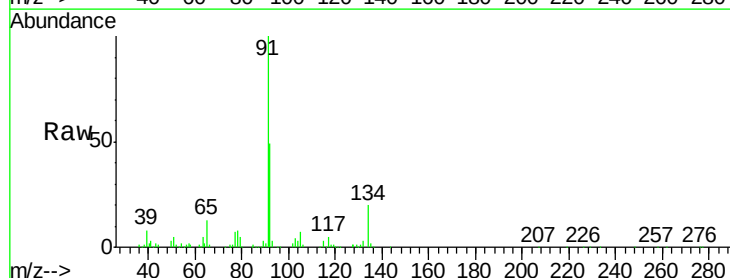


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

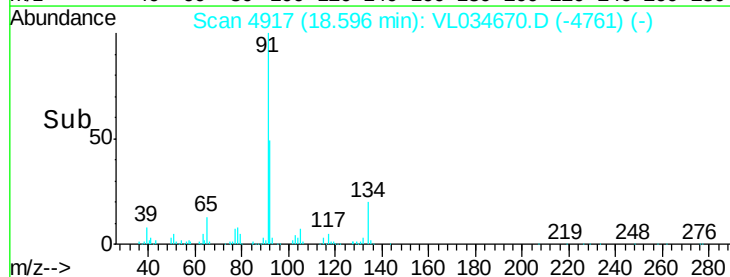
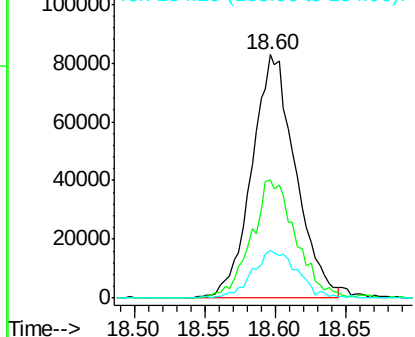


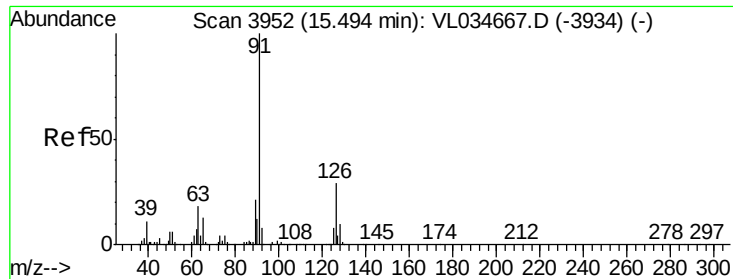
#70
 n-Butylbenzene
 Concen: 0.465 ppbv
 RT: 18.60 min Scan# 4917
 Delta R.T. 0.00 min
 Lab File: VL034670.D
 Acq: 25 Feb 2020 13:13

Tgt Ion	Ratio	Lower	Upper
91	100		
92	50.0	44.0	66.0
134	20.4	17.6	26.4



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: 0.483 ppbv

RT: 15.50 min Scan# 3953

Delta R.T. 0.00 min

Lab File: VL034670.D

Acq: 25 Feb 2020 13:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 131381

Ion Ratio Lower Upper

91 100

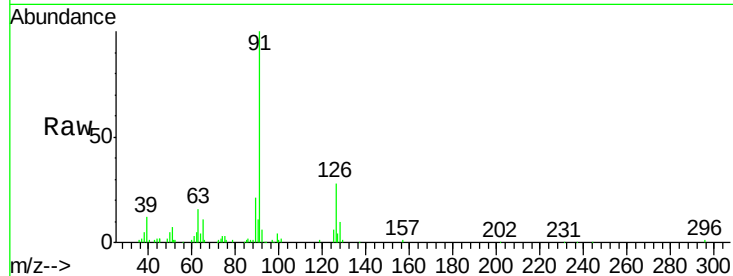
126 29.0 11.8 47.0

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

120000

100000

80000

60000

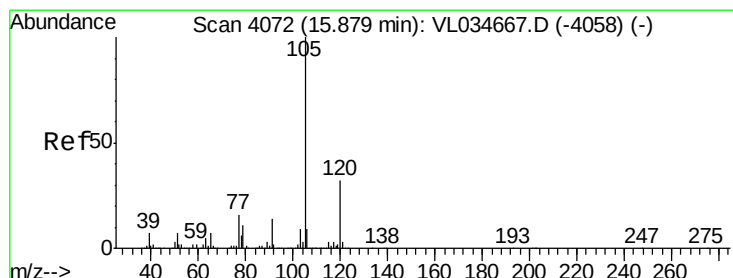
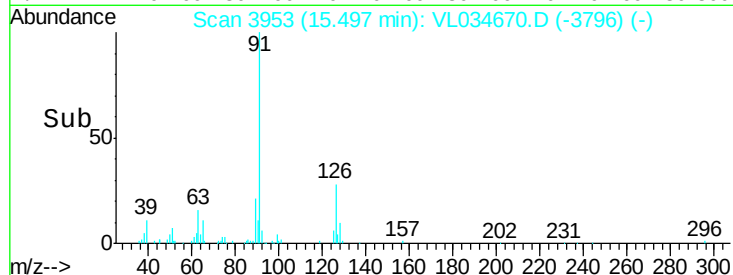
40000

20000

0

15.40 15.45 15.50 15.55

Time-->



#72

4-Ethyltoluene

Concen: 0.459 ppbv

RT: 15.88 min Scan# 4073

Delta R.T. 0.00 min

Lab File: VL034670.D

Acq: 25 Feb 2020 13:13

Tgt Ion: 105 Resp: 139284

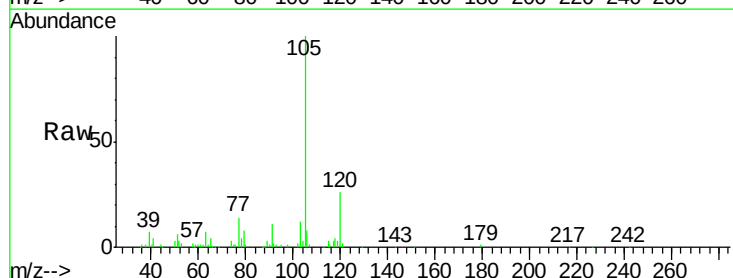
Ion Ratio Lower Upper

105 100

120 30.5 23.2 34.8

91 15.8 10.9 16.3

77 17.5 12.5 18.7



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

100000

80000

60000

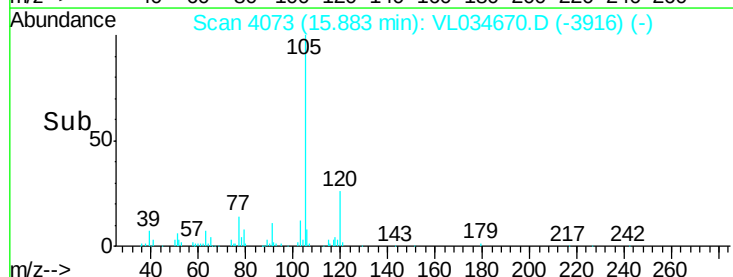
40000

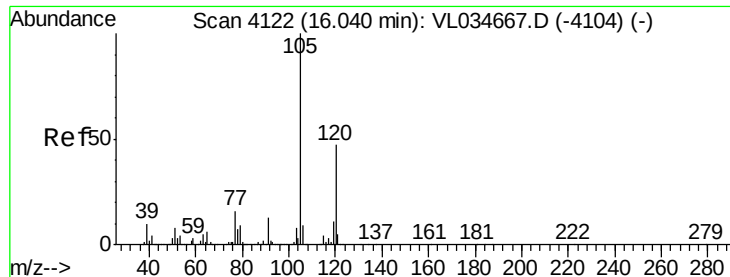
20000

0

15.85 15.90

Time-->





#73

1,3,5-Trimethylbenzene

Concen: 0.460 ppbv

RT: 16.04 min Scan# 4121

Delta R.T. -0.00 min

Lab File: VL034670.D

Acq: 25 Feb 2020 13:13

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:105 Resp: 136591

Ion Ratio Lower Upper

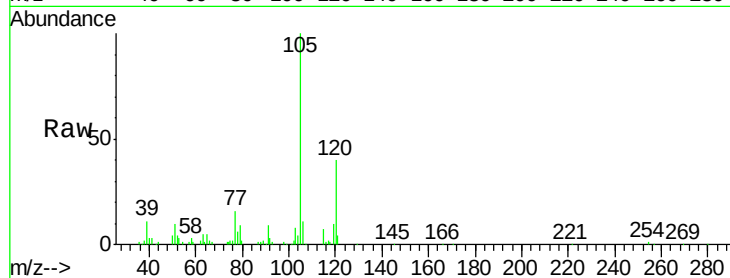
105 100

120 39.4 37.2 55.8

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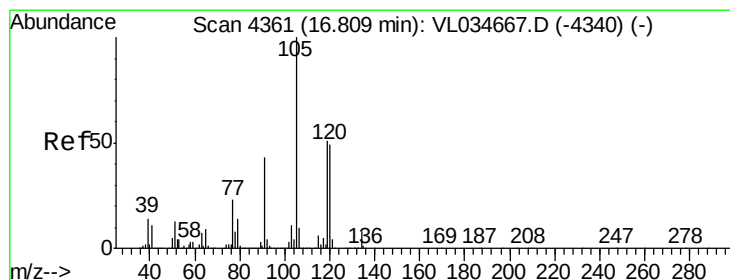
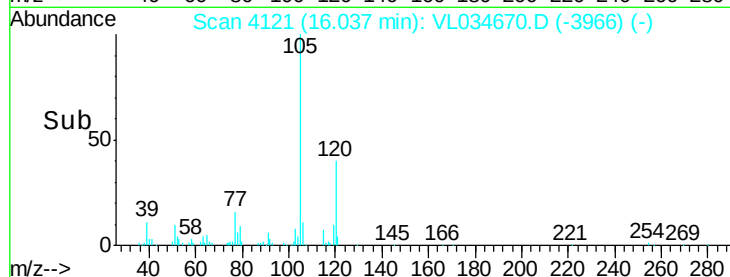
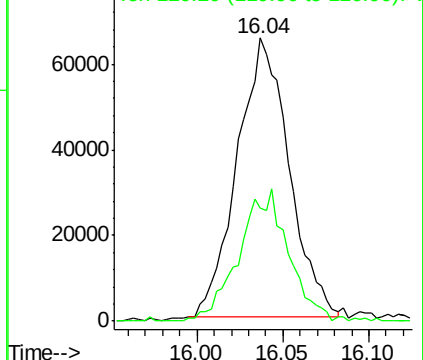
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.483 ppbv

RT: 16.81 min Scan# 4360

Delta R.T. -0.00 min

Lab File: VL034670.D

Acq: 25 Feb 2020 13:13

Tgt Ion:105 Resp: 158642

Ion Ratio Lower Upper

105 100

120 39.5 39.4 59.0

91 42.4 35.1 52.7

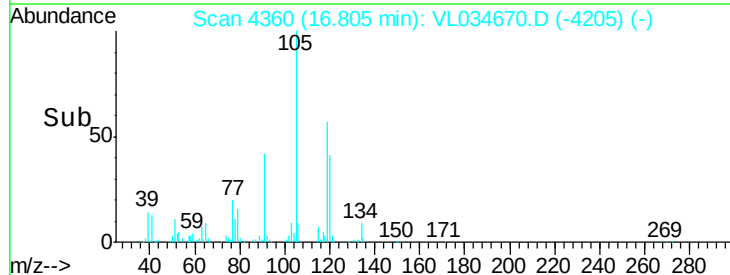
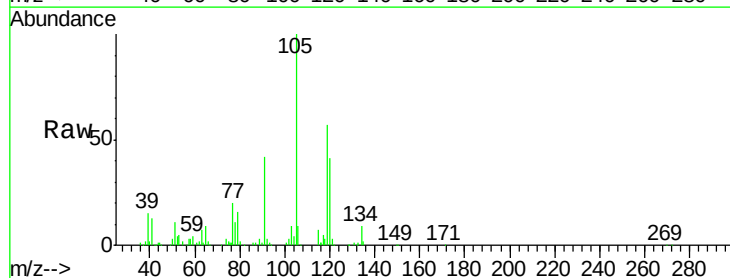
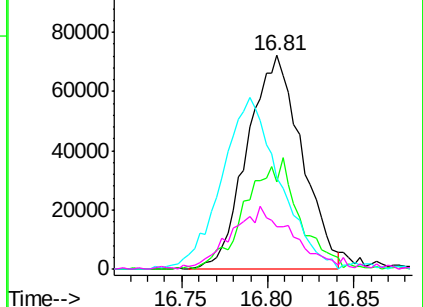
77 18.7 18.8 28.2#

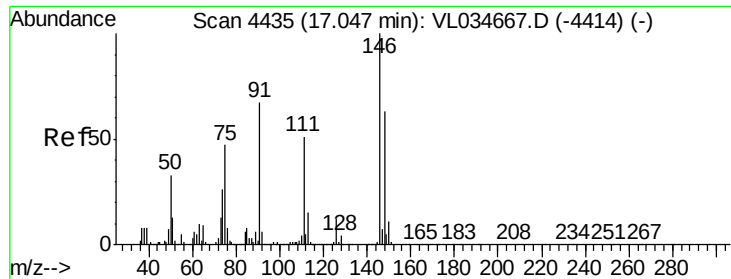
Abundance Ion 105.10 (104.80 to 105.80): V

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





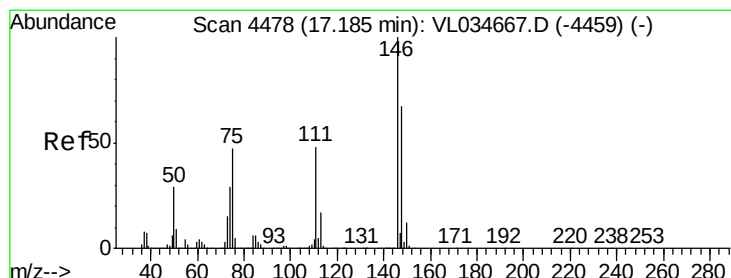
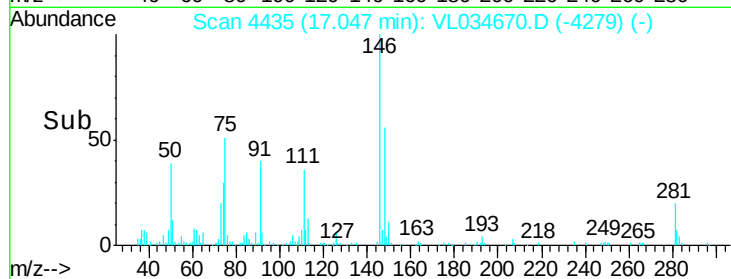
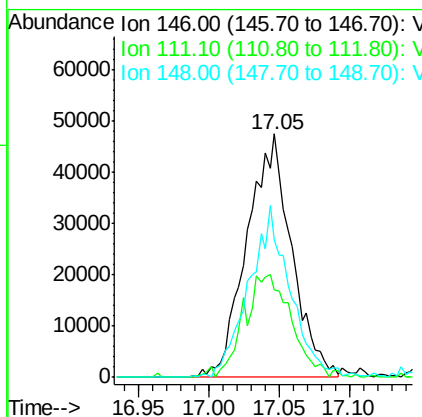
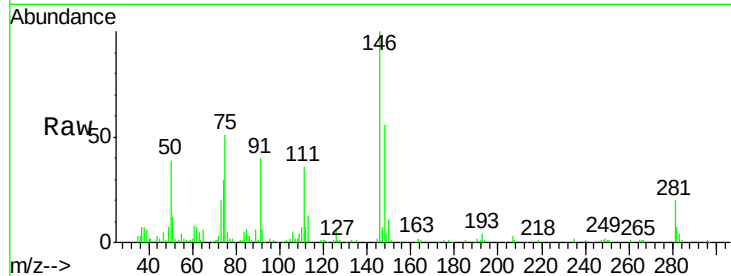
#75
 1,3-Dichlorobenzene
 Concen: 0.554 ppbv
 RT: 17.05 min Scan# 4435
 Delta R.T. 0.00 min
 Lab File: VL034670.D
 Acq: 25 Feb 2020 13:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
146	100		
111	45.6	24.0	72.0
148	65.5	32.1	96.5

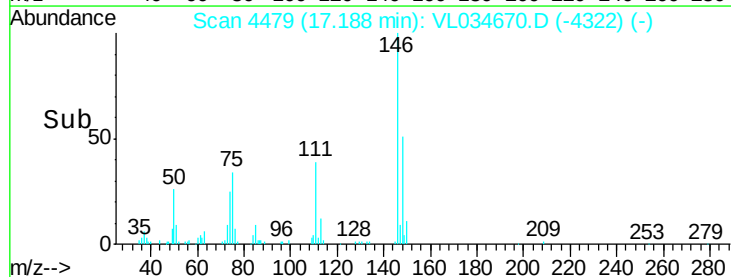
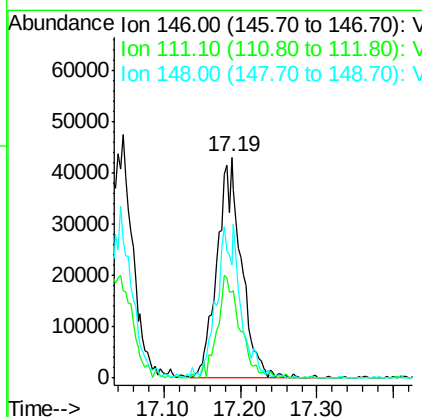
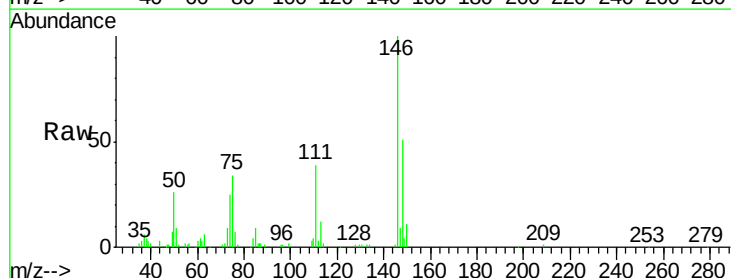
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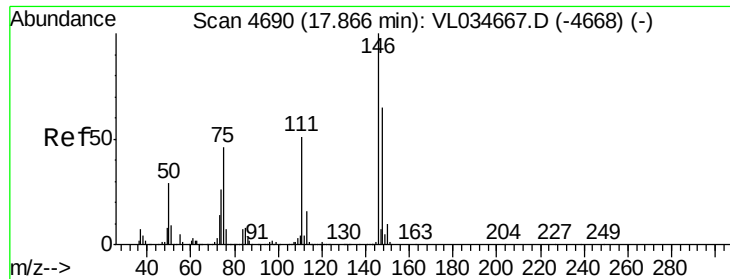
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#76
 1,4-Dichlorobenzene
 Concen: 0.513 ppbv m
 RT: 17.19 min Scan# 4479
 Delta R.T. 0.00 min
 Lab File: VL034670.D
 Acq: 25 Feb 2020 13:13

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	23.8	71.2#
148	67.5	32.3	96.9





#77

1,2-Dichlorobenzene

Concen: 0.543 ppbv m

RT: 17.87 min Scan# 4690

Delta R.T. 0.00 min

Lab File: VL034670.D

Acq: 25 Feb 2020 13:13

Instrument :

MSVOA_L

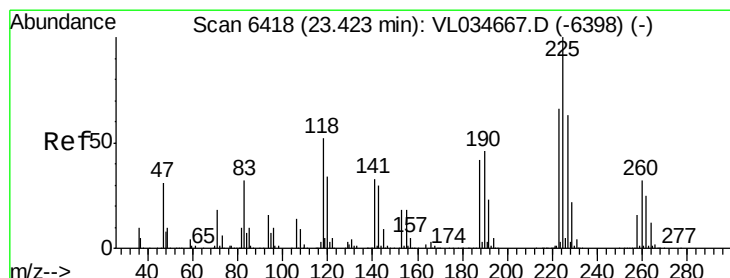
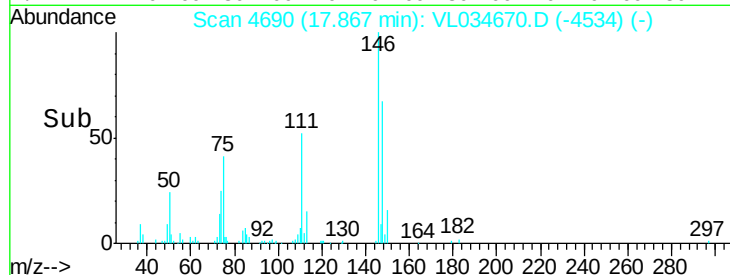
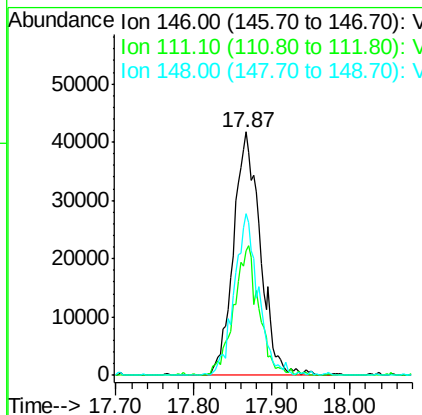
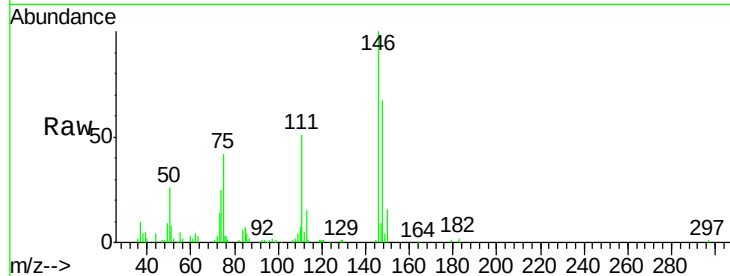
ClientSampleId :

VSTDIC0.5

Tot Ion:	146	Resp:	98658
Ion Ratio	Lower	Upper	
146	100		
111	50.0	24.9	74.7
148	59.8	32.1	96.3

Manual Integrations
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#78

Hexachloro-1,3-Butadiene

Concen: 0.460 ppbv m

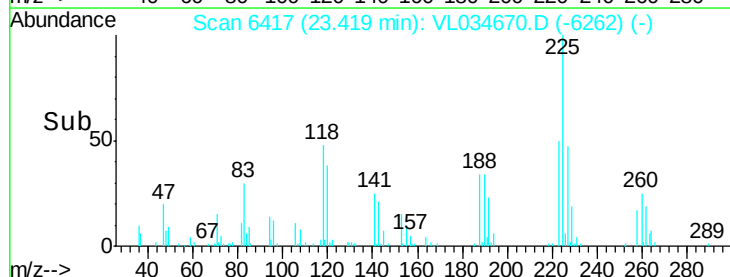
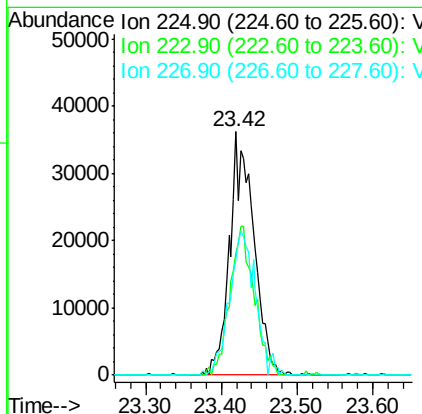
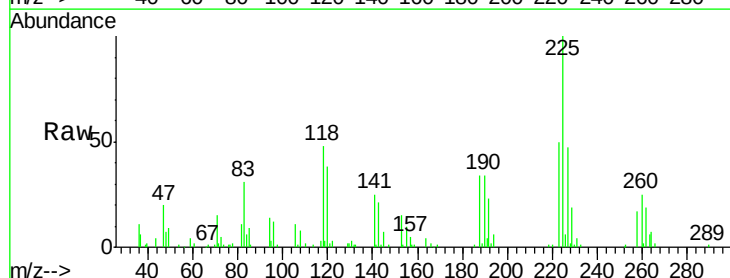
RT: 23.42 min Scan# 6417

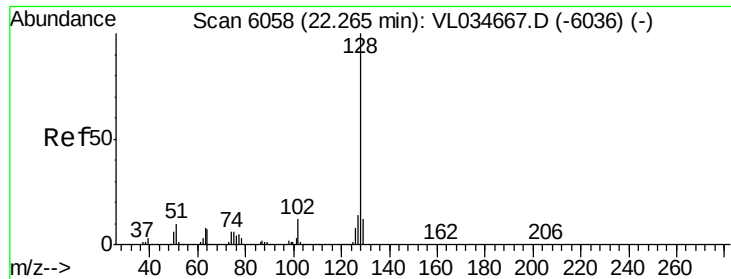
Delta R.T. -0.00 min

Lab File: VL034670.D

Acq: 25 Feb 2020 13:13

Tgt Ion:	225	Resp:	79918
Ion Ratio	Lower	Upper	
225	100		
223	61.6	50.4	75.6
227	63.8	51.8	77.8





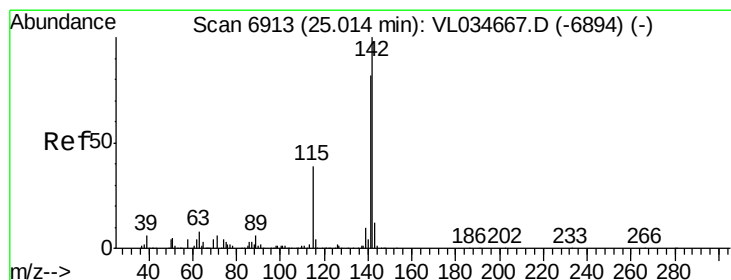
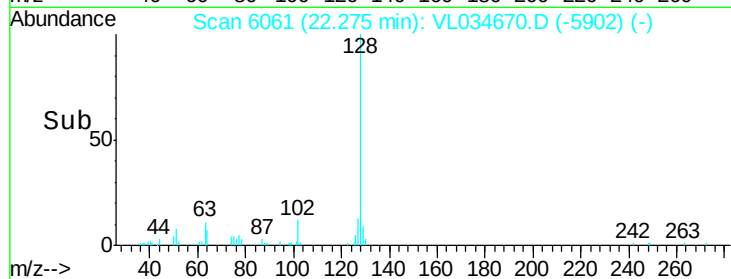
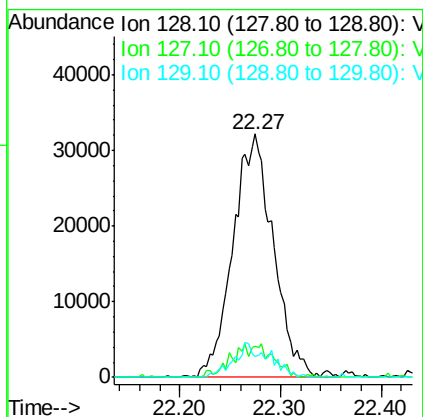
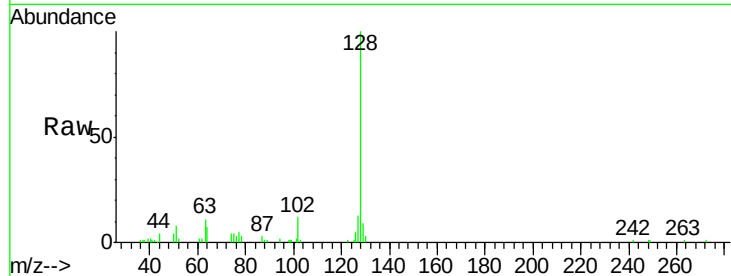
#79
Naphthalene
Concen: 0.346 ppbv m
RT: 22.27 min Scan# 6061
Delta R.T. 0.01 min
Lab File: VL034670.D
Acq: 25 Feb 2020 13:13

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	11.0	16.4
129	8.8	9.5	14.3#

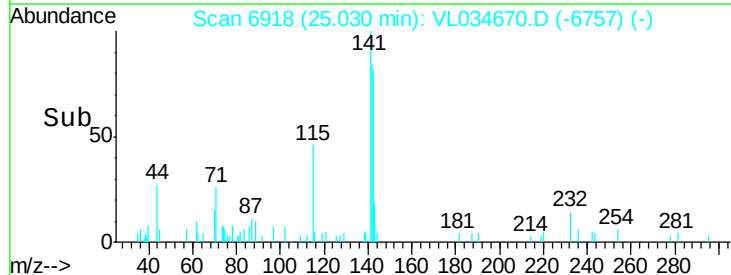
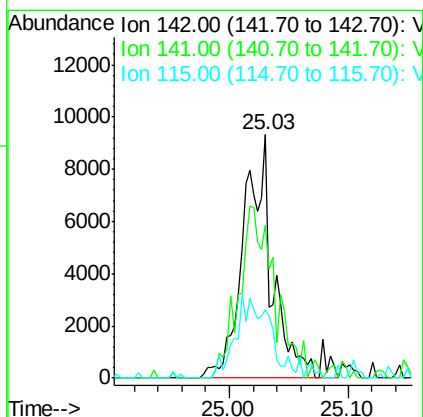
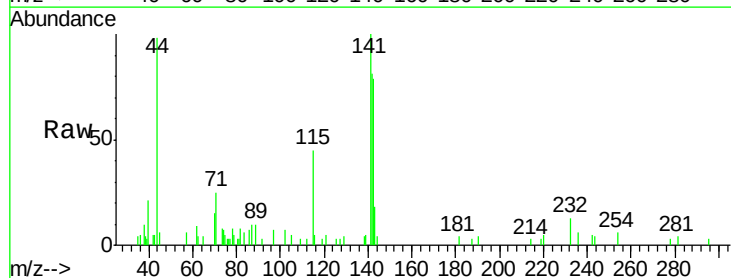
Manual Integrations
APPROVED

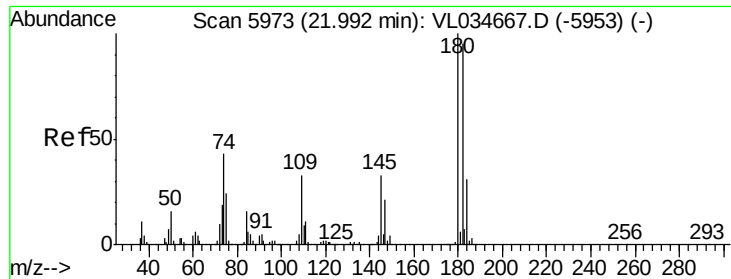
MMDadoda
2/26/2020 12:38:47 PM



#80
Naphthalene, 2-methyl-
Concen: 0.162 ppbv
RT: 25.03 min Scan# 6918
Delta R.T. 0.02 min
Lab File: VL034670.D
Acq: 25 Feb 2020 13:13

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.7	68.1	102.1
115	39.3	31.0	46.6





#81
 1,2,4-Trichlorobenzene
 Concen: 0.420 ppbv m
 RT: 21.99 min Scan# 5974
 Delta R.T. 0.00 min
 Lab File: VL034670.D
 Acq: 25 Feb 2020 13:13

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
180	100		
182	87.7	77.7	116.5
184	29.0	25.3	37.9

Manual Integrations
 APPROVED

MMDadoda
 2/26/2020 12:38:47 PM

